

*USDA-ARS Collection
of Entomopathogenic
Fungal Cultures*

ARSef

Isolates from HEMIPTERA or THYSANOPTERA



**Biological Integrated Pest Management Research
Robert W. Holley Center for Agriculture & Health
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New nomenclatural rules bring new challenges, and new taxonomic revisions for entomopathogenic fungi

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The previous (2007) version of this introductory material for ARSEF catalogs sought to explain some of the phylogenetical rationale for major changes to the taxonomy of many key fungal entomopathogens, especially those involving some key conidial and sexual genera of the ascomycete order Hypocreales. Phylogenetic revisions of the taxonomies of entomopathogenic fungi continued to appear, and the results of these revisions are reflected in the ARSEF catalog as quickly and completely as we can do so.

As many of people dealing with entomopathogenic fungi are already aware, there has been one still recent event that has a more far-reaching and pervasive influence whose magnitude still remains to be fully appreciated, but that leaves much of the mycological world (including insect mycology) semiparalyzed by uncertainty and worried about the extent and impacts of changes that still remain unformalized and, hence, a continuing subject for speculation and prediction. At the 2011 International Botanical Congress in Melbourne (Australia), however, a far-reaching nomenclatural revolution was imposed on the fungal world as the result of the abandonment of the existing dual nomenclatural standard that allowed separate, valid names for anamorphic and teleomorphic stages of pleomorphic fungi. This dual nomenclatural system was replaced by a new standard allowing only *one* correct name for any pleomorphic fungus regardless of how many morphs might have been previously and validly recognized for that fungus. The new rule (also known as One Fungus = One Name, or, even more concisely, 1F=1N) has deeply split mycologists into opposed camps greeting the new rules with either cheers or jeers. Whether one supports or opposes this change (for the record, I strongly object to this change), these basic points are indisputable and must be accepted (whether happily or not):

- Dual nomenclature is no longer recognized (now and for the indefinite future).
- 1F=1N is the ***only*** nomenclatural standard applicable for the nomenclature of pleomorphic fungi.
- The main impacts of 1F=1N are apparent at the rank of genera.
- After the competing possible names are evaluated, a ***single*** correct generic name will be chosen by decisions of committees as defined by the International Association for Plant Taxonomy (IAPT) which oversees the ***International Code of Nomenclature for algae, fungi and plants (ICN; McNeill et al. 2012*** or online at <http://www.iapt-taxon.org/nomen/main.php>).
- The use of the specified correct names, once fully confirmed, is obligatory and ***must*** be followed because all such names will be treated as if they have been conserved against all possible alternative names.
- Other taxonomic changes (especially below the generic level)—e.g., when the chosen correct generic name is of a different gender from that which it replaces, specific epithets must be changed to reflect the newer generic gender as when *Paecilomyces farinosus* became *Isaria farinosa*.

Table 1. UPDATES for probable outcomes under 1F=1N standards for which genera of entomopathogens in Hypocreales are likely to be treated as ‘correct’ (in boldface) that differ (where underlined> from what was suggested in Humber’s (2012) poster presented at the SIP meeting in Buenos Aires, AR.

Family Clavicipitaceae	
Humber (2012)	<i>Metarhizium</i> (synonyms: <i>Metacordyceps</i> , <i>Nomuraea</i> , <i>Pochonia</i> , <i>Rotiferophthora</i> , etc.) <i>Aschersonia</i> (synonym: <i>Hypocrella</i>) Other aschersonioid genera; <i>Moelleriella</i>, <i>Orbiocrella</i>, <i>Regiocrella</i>, <i>Samuelsia</i>
Updated (see Kepler et al. 2014)	<i>Metarhizium</i> (synonyms: <i>Chamaeleomyces</i> , <i>Metacordyceps</i> , <i>Nomuraea</i>) <i>Pochonia</i> <i>Metapochonia</i> <i>Rotiferophthora</i> <i>Aschersonia</i> (synonym: <i>Hypocrella</i>) Other aschersonioid genera; <i>Moelleriella</i>, <i>Orbiocrella</i>, <i>Regiocrella</i>, <i>Samuelsia</i>
Family Cordycipitaceae	
Humber (2012)	<i>Cordyceps</i> (synonyms: <i>Beauveria</i> , <i>Isaria</i> , <i>Lecanicillium</i> , <i>Evlachovaea</i> , <i>Microhilum</i> , <i>Simplicillium</i> , etc.) <i>Torrubiella</i> (synonyms: <i>Akanthomyces</i> , <i>Gibellula</i> , <i>Granulomanus</i> , <i>Pseudogibellula</i>) <i>Ascopolyporus</i> <i>Conoidiocrella</i>
Updated probable choices:	<i>Cordyceps</i> (possible synonyms: <i>Torrubiella</i> ^{1,2} , <i>Lecanicillium</i> ¹) <i>Beauveria</i> <i>Gibellula</i> (synonym: <i>Granulomanus</i>) <i>Isaria</i> (synonym: <i>Evlachovaea</i>) <i>Ascopolyporus</i> <i>Conoidiocrella</i>
Family Ophiocordycipitaceae	
Humber (2012)	<i>Elaphocordyceps</i> (synonym: <i>Tolypocladium</i>) <i>Ophiocordyceps</i> (synonyms: <i>Hirsutella</i> ³ , <i>Hymenostilbe</i> , <i>Paraisaria</i> , <i>Sorosporrella</i> , <i>Syngliocladium</i>)
Updated probable choices:	<i>Elaphocordyceps</i> (synonym: <i>Tolypocladium</i>) <i>Ophiocordyceps</i> (synonyms <i>Hirsutella</i> ³ , <i>Hymenostilbe</i> , <i>Paraisaria</i> , <i>Sorosporrella</i> , <i>Syngliocladium</i>) <i>Polycephalomycetes</i> (see Kepler et al. 2012)

¹ Separate status or synonymy depends on more complete determination for status of type species.

² As traditionally defined, a polyphyletic group with spp attributable to all clavicipitoid families; see Johnson et al. 2009.

³ May be recognized as separate from *Ophiocordyceps* but status and circumscription still undetermined.

IMPORTANT NOTE: If not treated as a separate genus, *Hirsutella* might be recognized as a correct name to replace the younger generic name *Ophiocordyceps*.

- Some very familiar, cherished generic names will disappear, and the traditional generic circumscriptions for pleomorphic fungi will expand and be revised to reflect all phylogenetically related morphs for their included taxa.

How correct names will be chosen: The ultimate selection of correct names over all possible competing names will depend on a number of sequential actions by a significant number of persons in a series of committees, and will be subject to all of the difficulties that routinely accompany committee actions. The exact set of actions that will be occurring still remain uncertain in many quarters. For fungi in the Hypocreales (the entomopathogens most affected by the new rule and also raising the greatest concerns for insect pathologists), there is a world-wide group of mycologists with strong taxonomic/systematics expertise who

will consider the demonstrated phylogenies of these fungi, assemble lists of generic names that appear to apply to monophyletic groups of taxa, and that will formally propose a set of choices of correct genera (and their synonyms) to the IAPT's Nomenclature Committee for Fungi. Once this committee has cast their votes to accept (or to modify) any of the proposed choices, the lists of accepted and rejected names will be sent forward to the General Committee of the IAPT for ratification, and then to the Nomenclature Session of the next International Botanical Congress (the next such meeting will be in 2017, in Beijing; any reports from the Committee for Fungi that miss the deadlines for this next Congress would be passed on to the following Congress in 2023 (wherever that may be held). No nomenclatural changes or decisions of any type become completely official until they have been accepted by majority votes during the Nomenclature Session at an International Botanical Congress and then ratified by a plenary vote of the Congress participants at that Congress. It is interesting to note that the only constitutive reason for holding any International Botanical Congress is actually for holding these Nomenclatural Sessions (before the main Congress) and the final, obligatory vote on the acceptance of the report from the Nomenclatural Session during the closing plenary session of the Congress.

The selection of which name among competing possibilities will be selected as correct is not entirely arbitrary, but it is also necessary to remember that it will be a matter of consensus opinion among the members of the committees that will consider the proposals coming to them. The criteria that are supposed to be used for ultimately choosing the names that will be used are to be based in the first place on priority of publication (which name is the oldest available name). There is no longer any automatic preference in the Code to choose names as correct that are typified by teleomorphs; names for conidial and sexual states are to be treated on an equal basis for purposes of selecting the correct name.

It is apparent that even now (early in 2014), there is still a great deal of uncertainty among mycologists about exactly how to handle names of pleomorphic fungi during this transitional period from the defunct dual nomenclatural system to the new rule. **Hawksworth (2012)** provides what may be the most comprehensive opinion about how to proceed from this point, but it is only one opinion about how the mechanics should proceed.

Changes to the International Code of Nomenclature (ICN) for botanical and related taxa are supposed to result in greater stability and predictability for the names of organisms covered by these rules. Whether the newly adopted rules do this remains a source of active and heated controversy. It probably is fair to say that a new stability will be an eventual result of these new rules, and that within another decade many of the fundamental arguments about the value of these changes will have been settled. I will note that the names for the entomopathogenic hypocrealean fungi (which comprise the vast majority of fungi in the ARSEF culture collection) are among the fungi most drastically affected by this dramatic change in the ICN rules. While nomenclatural stability will eventually come, it will still be a number of years before that stabilization process has been completed and before the resulting changes are fully incorporated into the scientific literature. It is probable that all or, at least, the great majority of the basic changes outlined here will be ready for final ratification during the 2017 International Botanical Congress in Beijing.

Just as there is enormous confusion and controversy still about whether the abandonment of dual nomenclature for the 1F=1N rule was a good and necessary change or will prove to be a superfluous and destructive catastrophe, there are many analyses covering a range of opinions from opposed to and troubled by the change (e.g., **Korf 2005** precedes the adoption of the new rules but raises important and pertinent issues; **Gams et al. 2011, 2012**) to those who seem to be cautiously and a bit vigilantly supportive (e.g., **Braun 2012**) to those leading full-throated cheers for these changes (**Hawksworth 2011**; **Hibbett & Taylor 2013**) to even a suggestion that the naming of fungi may cause more problems than it solves (**Money 2013**).

ARSEF responses to taxonomic revisions: The identifications in the ARSEF catalog have always incorporated new taxa and appropriately revised classifications as soon as the collection staff can confirm the correct new identifications for ARSEF holdings. We make every attempt in the catalog to note specifically when those identifications are based on genomic sequence data. For taxa where extensive molecular revisions have occurred, those isolates with genomically confirmed identifications—for example, for isolates of *Beauveria bassiana* and *Metarhizium anisopliae* in their molecularly redefined, phylogenetically narrowed,

strict senses (***sensu stricto***)—are listed in the catalog as these species; isolates that have not been molecular confirmed are placed in separate listings for these species in their broad senses (***sensu lato***).

GENERAL AND PHYLOGENETIC RECLASSIFICATIONS OF FUNGI

The results of a global cooperative effort involving dozens of mycologists (including the curator of this collection) to reclassify the fungi according to phylogenetically sound principles based on the DNA sequence data for multiple genes has recently resulted in the publication of two monumentally important publications that completely rework mycological systematics. The earlier publication was a phylogenetic overview of virtually all fungi (**James et al. 2006**). The second publication (**Hibbett et al. 2007**) provided many of the necessary taxonomic readjustments that were indicated by the phylogenetic studies. The ITS gene sequence has been adopted as a supposedly universal biological bar code gene (**Schoch et al. 2012**) because of its wide usefulness for a vast range of fungi; however, reality has consistently indicated that the ITS sequence has very little usefulness for the identification of fungi in some important groups of ascomycete (**especially including** taxa in the order Hypocreales). As is noted here, however, there have been many later phylogenetic studies that are important for the taxonomy and systematics of entomopathogenic fungi. Some of these major studies involving entomopathogens from the order Hypocreales are listed here by anamorphic or teleomorphic generic name:

Beauveria — **Rehner et al. 2011**

Fusarium — **O'Donnell et al. 2012**

Metarhizium — **Bischoff et al. 2009; Kepler & Rehner 2013; Kepler et al. 2014**

Metacordyceps — **Kepler et al. 2012**

Polycephalomycetes — **Kepler et al. 2013**

FLAGELLATE FUNGI AND FUNGAL ALLIES

The removal of the Oomycetes (biflagellate water molds whose zoospores have one whiplash and one tinsel flagellum) from the true fungi to the class Peronosporomycetes in the kingdom Straminipila (also known as kingdom Chromista) has been widely accepted within mycology for several decades now. There are, however, a small number of water molds that produce uniflagellate zoospores (with a single posterior whiplash flagellum) that have traditionally been treated in the Chytridiomycota. The massive phylogenetic review of fungi (**James et al. 2006**) known under the All-Fungal Tree of Life (AFTOL) Project resulted in indicating that a large group of taxa—including the entomopathogenic genera Coelomomyces, Coelomycidium, and Myiophagus—needed to be removed from the Chytridiomycota; these semi-terrestrial chytrids with golden-brown resistant sporangia and complex life histories were reclassified by **Hibbett et al. (2007)** into the newer kingdom Blastocladiomycota.

ENTOMOPHTHOROMYCOTA: A NEW PHYLUM

The phylogenetically driven reclassification of all fungi (**Hibbett et al., 2007**) resulted in the abandonment of the phylum Zygomycota (as well as the subphylum Zygomycotina and class Zygomycetes) because these long-recognized taxa were finally proven to be distinctly polyphyletic. A series of subphyla not assigned to any phylum were described in **Hibbett et al. (2007)** while placing arbuscular mycorrhizal fungi (Glomales) in a clearly distinct phylum, Glomeromycota. Since that initial formal dispersal of zygomycete fungi, the new (still unassigned) subphylum Mortierellomycotina was described (**Hoffmann et al. 2011**). It was always understood that it was probable that further phylogenetic studies on these unassigned subphyla of zygomycetous fungi could eventually result in raising each of these subphyla to phylum ranking. In the case of the Entomophthoromycotina, these 'missing' phylogenetic studies have been completed in a sufficiently convincing manner (**Gryganskyi et al. 2012a,b**) to support the description of the phylum Entomophthoromycota (**Humber 2012**) with a new and phylogenetically revised classification of entomophthoroid fungi into three classes (see **Table 2**).

Table 2. Phylum Entomophthoromycota (Humber 2012).

Class Basidiobolomycetes	
Order Basidiobolales	
Family Basidiolaceae	<i>Basidiobolus</i> , <i>Schizangiella</i> ¹ , <i>Drechslerosporium</i> ¹
Class Neozygitomycetes	
Order Neozygitales	
Family Neozygitaceae	<i>Neozygites</i> , <i>Apterivorax</i> , <i>Thaxterosporium</i>
Class Entomophthoromycetes	
Order Entomophthorales	
Family Ancylistaceae	<i>Ancylistes</i> , <i>Conidiobolus</i> ² , <i>Macrobotophtora</i>
Family Completoriaceae	<i>Completozia</i>
Family Entomophthoraceae	
Subfamily Entomophthoroideae	<i>Entomophthora</i> , <i>Entomophaga</i> , <i>Eryniopsis</i> , <i>Massospora</i> ³
Subfamily Erynioideae ⁴	<i>Erynia</i> , <i>Furia</i> , <i>Orthomyces</i> , <i>Pandora</i> , <i>Strongwellsea</i> , <i>Zoophthora</i>
Family Meristacraceae ⁵	<i>Meristacrum</i> , <i>Tabanomyces</i>

¹ Genus with phylogenetic support but still awaiting formal description.

² Phylogenetic data indicate this genus must be revised and split.

³ Subfamily Massosporoideae proposed by Keller & Petrini (2005) is not phylogenetically supported.

⁴ Phylogenetic data support Zoophthora, but distinctions among other genera remain uncertain.

⁵ Two previously included genera—*Ballocephala* and *Zygnemomyces*—have been excluded from Entomophthoromycota and reclassified in subphylum Kickxellomycotina (see Humber 2012).

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ARS COLLECTION OF ENTOMOPATHOGENIC FUNGAL CULTURES

History and Purpose of the ARSEF Collection

The goal of the ARS Collection of Entomopathogenic Fungal Cultures (ARSEF) is to provide fundamental support for basic and applied research on the fungal pathogens of invertebrates. Since its establishment in the early 1970s, this collection has served as a general research resource for the isolation, collection, preservation, and distribution of fungal strains from insects, other arthropods, and nematodes. Emphasis has always been placed on acquiring and distributing strains under active study for use as potential biological control agents. Basic research associated with the collection includes fungal systematics, fungal cytology, pathobiology, and methodology for fungal cryopreservation. The culture collection and its associated collection of microscope slides and herbarium specimens provide invaluable support for taxonomic research on and the diagnoses of fungal pathogens of invertebrates. Identification services for specimens and cultures have always been available free of charge to any laboratories requesting them.

We strive to provide users with pure and accurately identified fungal cultures, and the taxonomies applied to the fungi in this collection are continuously updated to reflect their current accepted classifications. The curator of the collection welcomes all correspondence about nomenclatural or taxonomic changes or possible misidentifications involving any ARSEF strains.

The ARSEF collection began as Richard Soper's research collection in the USDA-ARS laboratory at the University of Maine (Orono; UMO) where its cultures were at initially designated by a UMO or RS prefix before adopting ARSEF in 1985. In 1978, the ARS Insect Pathology Research Unit relocated to Ithaca, NY, to work with the Boyce Thompson Institute (BTI) on the Cornell University campus. The Insect Pathology Research Unit became the Plant Protection Research Unit (PPRU) in 1985, and was renamed in 2008 as the Biological Integrated Pest Management Research Unit (BioIPM). The ARSEF collection moved from BTI in 1990 into the US Plant, Soil & Nutrition Laboratory which was rededicated in 2008 as the Robert W. Holley Center for Agriculture & Health to commemorate Dr. Holley's work there to complete the first sequencing of any nucleic acid; he received the 1968 Nobel Prize for Medicine or Physiology for this work.

BioIPM operates the ARSEF culture collection for the USDA Agricultural Research Service; the collection is not now and has never been owned or controlled by the Boyce Thompson Institute. ARSEF is one of the largest germplasm collections in the ARS, and is widely recognized for its active support of research on fungal pathogens of invertebrates. ARSEF and its associated herbarium are registered under the ARSEF acronym since 1985 with the World Federation of Culture Collections' World Data Center on Microorganisms and the International Association of Plant Taxonomists' *Index Herbariorum*, respectively.

From 1977 through 2008, all strains in the collection were preserved by immersion in liquid nitrogen. A program to lyophilize those isolates that could tolerate such was begun in the 1990's, and has expanded in scope and pace. At the end of 2008 the vast majority of the collection was consolidated in a single large nitrogen dewar in a new facility adjacent to the current building. Requests for cultures are filled with either actively growing cultures on appropriate media or, if available, as freeze-dried units.

Identifying and Acknowledging ARSEF Strains in Publications

We request that all publications using or referring to strains obtained from ARSEF acknowledge the U.S. Department of Agriculture, ARS Plant Protection Research Unit and state the ARSEF accession numbers of these strains. We would very greatly appreciate receiving reprints of all past, current, and future publications or even periodic notification about research in progress involving the use of ARSEF strains.

Accession numbers of strains from commercial culture collections such as the American Type Culture Collection (ATCC), Centraalbureau voor Schimmelcultures (CBS), CAB International Mycological Institute (IMI), and other registered general service collections are listed in this catalog to provide complete information about specific isolates. ***Representation of cultures obtained from ARSEF as being from ATCC, CBS, IMI or UAMH or other general service culture collections violates trademark laws, and persons doing so are subject to prosecution.*** Cultures received from ARSEF should be referred to by their ARSEF numbers only even if they are co-deposited in other other culture collections.

Depositing and Exchanging Cultures

BioIPM and ARSEF encourage deposition of entomopathogenic fungal cultures in the ARSEF collection—particularly strains used in published studies—and of voucher and reference specimens to its herbarium. Depositors may reserve the right to limit redistribution of any culture deposited with ARSEF for specified times upon consultation with the curator. Depositors can receive subcultures of their own depositions at any time; these cultures do not affect any allowances of free cultures. Exchanges of cultures between ARSEF and other research or general collections of fungal cultures are encouraged and are not subject to numerical limits.

Prior to shipping cultures from countries outside the United States contact the Curator to obtain the appropriate needed importation permit from the U.S. Department of Agriculture, Animal and Plant Health Inspection Services, Plant Protection and Quarantine.

When sending cultures and/or specimens to ARSEF, it is very important to include as much of the following information as possible:

1. Scientific name (and taxonomic authority) of the fungus.
2. Common and scientific name (with taxonomic authority) of the host.
3. Order and family of the host. (***This information is especially important!***)
4. Date and site of collection.
5. Name of collector.
6. Date and name of isolator.
7. Any collection, accession, or other identifier number(s) applied by the collector or sender.
8. Medium on which a culture is sent.
9. Any special requirements or conditions for growth (such as medium, temperature, pH).

Diagnostic Services for Cultures and Specimens

Specimens and cultures of unidentified fungi from invertebrates can be submitted to ARSEF for diagnosis. This service is an important function of the ARS Collections of Entomopathogenic Fungi and is provided without charge. Identifications and information about the disposition of specimens will be mailed to the sender.

Release of ARSEF Cultures from Containment or Quarantine

Neither the curator nor any employee of ARSEF or of the Plant Protection Research Unit is entitled to authorize the release of any culture it provides from laboratory containment or quarantine in the United States or elsewhere. Recipients of ARSEF cultures are responsible for obtaining appropriate and necessary permissions from or for providing official notifications to State and Federal regulatory agencies.

ORDERING INFORMATION

Please send all requests for isolates directly to the Curator (Richard A. Humber):

ARS Collection of Entomopathogenic Fungal Cultures
Robert W. Holley Center for Agriculture & Health
Tower Rd.
Ithaca, NY 14853–2901

Telephone: [+1] 607 255-1276
OR Fax: [+1] 607 255-1132
Email: richard.humber@ars.usda.gov

Academic, Government, and Other Nonprofit Institutions

1–5 isolates [up to 7 per calendar year]

no charge

6 or more isolates per order [8 or more per calendar year]

US\$60 per strain

Users from nonprofit institutions can receive up to five isolates without charge in any 6 month period, and up to seven cultures in any calendar year. Requests in excess of these limits may be charged at the rate of US\$60 per additional isolate requested. Requests from commercially sponsored research programs undertaken by nonprofit institutions are charged at the commercial rate and are not subject to numerical limits. Prices are subject to change without notice.

Commercial and Industrial Institutions

US\$85 per strain

Nonprofit institutions working on commercially sponsored contractual projects (such as screening programs) are charged at the rate of US\$85 per strain requested. There are no limits on the numbers of cultures that can be requested or shipped. Prices are subject to change without notice.

Commercial or industrial firms supporting research at the ARS Plant Protection Research Unit are entitled to free access to cultures pertinent to contracted projects; all other requests are charged at the current rate.

TERMS OF SHIPMENT

If necessary, billings for isolates are issued through the Boyce Thompson Institute. We encourage prepayment for isolates. *Checks or money orders for strains must be payable to the **Boyce Thompson Institute*** but sent directly to the curator of the ARS Collections of Entomopathogenic Fungi. Consult the curator of the collections with questions about fees due for any particular shipment.

All recipients of cultures are strongly encouraged to provide express shipper account numbers to allow shipping costs to be billed directly to recipients, thus assuring significant cost-savings to the ARSEF collection.

We request confirmation of receipt and viability of cultures shipped. Inviabile strains will be replaced.

ARSEF reserves the right to refuse to ship isolates

- to recipients who cannot handle them using standard microbiological practices,
- to laboratories that cannot assure laboratory containment of isolates except after obtaining permissions from applicable State and Federal regulatory agencies, or
- if use of routine mailing or shipping procedures cannot assure the receipt of viable cultures.

Neither ARSEF, BioIPM, nor the Boyce Thompson Institute is liable for damages arising from the misidentification of strains.

INTERPRETATION OF STRAIN ACCESSION DATA

The following examples provide a guide to the arrangement and interpretation of collection data included in this catalog.

***Beauveria bassiana* (Balsamo) Vuillemin**

2828 M Feng (MD8903). *Metopolophium dirhodum* [Homoptera: Aphididae] on spring wheat. 21 Jul 89. USA: Parma, Idaho.

2828	ARSEF accession number.
M Feng (MD8903)	Depositor and depositor's reference or accession number.
<i>Metopolophium dirhodum</i> [Homoptera: Aphididae]	Original host [host's order and family]
On spring wheat	The substrate on which the host was found
21 Jul 89	Date of accession or receipt by ARSEF.
USA: Parma, Idaho	Country of origin followed by the locality and state.

***Conidiobolus thromboides* Drechsler**

73 [CSIRO EM534; FPMI 28] RG Kenneth (3040)←ATCC (24419)←DM MacLeod←G Thoizon. *Rhopalosiphum insertum* [Homoptera: Aphididae]. Rec'd Jan 18 1976. France: Val-de-Marne, La Varenne.

73	ARSEF accession number.
[CSIRO EM534; FPMI 28]	Alternative depositions of this strain in other culture collections.
RG Kenneth (3040)	Depositor and depositor's reference or accession number.
←ATCC (24419)←DM MacLeod ←G Thoizon	Culture provenance: RG Kenneth obtained the culture from ATCC, which received it from DM MacLeod, who received it from G Thoizon.
<i>Rhopalosiphum insertum</i> [Acari: Eriophyidae]	Original host [host's order and family]
Rec'd Jan 18 1976	Date of receipt by ARSEF.
France: Val-de-Marne, La Varenne	Country of origin followed by the locality and region.

***Hirsutella thompsonii* Fisher**

137 [ATCC 24874; CBS 952.73] CW McCoy (Fla. 68). *Phyllocoptruta oleivora* [Acari: Eriophyidae]. Jan 1 1970. USA: Orlando, Florida.

137	ARSEF accession number.
[ATCC 24874; CBS 952.73]	Alternative depositions of this strain in other culture collections.
CW McCoy (Fla. 68)	Depositor and depositor's reference or accession number.
<i>Phyllocoptruta oleivora</i> [Homoptera: Aphididae]	Original host together with the host's order and family.
Jan 1 1970	Date of accession or receipt by ARSEF. Note: January 1 is a default date if an exact date in a year is unknown; the first day of the month is the default if no specific day in a month is known.
USA: Orlando, Florida	Country of origin followed by the locality and state.

ABBREVIATIONS

Information about the world's officially registered culture collections, their registered acronyms (e.g., ARSEF), and more is available from the CCINFO database and from other resources available at the website of the World Data Center for Microbiology <http://wdcm.nig.ac.jp/WDCHomePage_text.html>

ARSEF	ARS Collection of Entomopathogenic Fungi, USDA-ARS BioIPM Research Unit, Robert W. Holley Center for Agriculture & Health, Tower Rd., Ithaca, New York, 14853-2901, USA
ATCC	American Type Culture Collection, PO Box 1549, Manassas, Virginia 20108, USA
CATIE	Centro Agronómico Tropical de Investigación y Enseñanza, Proyecto UIP, Apdo. Postal 7170, Turrialba, Costa Rica.
CBS	Centraalbureau voor Schimmelcultures, Uppsalalaan 8, 3584 CT Utrecht, The Netherlands
CCF	Culture Collection of Fungi, Department of Botany, Charles University, Prague, Czech Republic
CCFC	Canadian Collection of Fungus Cultures, Centre for Land and Biological Resources Research, Room 1015, K.W. Neatby Bldg., Ottawa, Ontario K1A 0C6, Canada
CDC	Centers for Disease Control and Prevention, Atlanta, Georgia 30333, USA
CENARGEN	Centro Nacional de Pesquisa de Recursos Geéticos e Biotecnologia, S.A.I.N. Parque Rural, C.P. 102372, 70770 Brasília, D.F., Brazil
CIRI	Corn Insects Research Unit, USDA-ARS, R.R. Box 45B, Ankeny, Iowa 50021, USA
CNPAF	National Center for Agricultural Research on Rice and Beans, EMBRAPA, Goiânia, Goiás, Brazil
CNPS	National Center for Agricultural Research on Soybeans, EMBRAPA, Londrina, Paraná, Brazil
CP	Strains isolated during joint US-Brazil program funded by US-AID to study fungal biocontrol of the insect pests of cowpeas
DAOM	National Mycological Herbarium, Centre for Land and Biological Resources Research, Agriculture Canada, Central Experimental Farm, Ottawa, Ontario, K1A 0C6, Canada
DAR	New South Wales Department of Agriculture, Rydalmere, NSW, Australia
EFCC	Korean Entomopathogenic Fungal Collection (JM Sung, Curator), Dept. of Agricultural Biology, Kangwon National University, Chuncheon, Rep. of Korea
FI	CSIRO Entomology Division, Collection of Entomopathogenic Fungi, Black Mountain Laboratories, Canberra, ACT, Australia. This collection, formerly curated by R. Milner, is now orphaned and is being transferred to ARSEF.
FPMI	Great Lakes Forestry Center (formerly Forest Pest Management Institute), 1219 Queen Street East, Sault Ste. Marie, Ontario P6A 5M7, Canada. This collection, formerly led by D MacLeod and D Tyrrell is orphaned and endangered. Its surviving isolates <i>may</i> be transferred to DAOM.
GCRI	Horticulture Research International (formerly, Glasshouse Crops Research Institute), Worthing Road, Littlehampton, W. Sussex BN17 6LP, England, UK
HACC	Hindustan Antibiotics Ltd., Pimpri, Poona, India
IMI	(Now incorporated in United Kingdom National Culture Collection [UKNCC]) CABI Bioscience, Bakeham Lane, Egham, Surrey TW20 9TY, UK

INRA	Station de Recherches de lutte Biologique et Biocoenotique, INRA (Institut National de la Recherche Agronomique), La Minière – 78280 Guyancourt, France
IPLB	Unité de Lutte Biologique, Institut Pasteur, 28 Rue de Dr. Roux, 75724 Paris, France
IRRI	International Rice Research Institute, P.O. Box 933, Manila, Philippines
KEFC	(see EFCC)
KSU	Kansas State University, Department of Entomology, Manhattan, Kansas 66506, USA
MAF	Ministry of Agriculture and Fisheries, Canterbury Agriculture and Science Centre, Ellesmere Junction Road, P.O. Box 24, Lincoln, New Zealand
MU	Miami University, Willard Sherman Turrell Herbarium, Department of Botany, 79 Upham Hall, Oxford, Ohio 45056, USA
NCTC	National Collection of Type Cultures, Public Health Laboratory Service, 61 Colindale Ave., London NW9 5HT, England, UK
NRRL	ARS Culture Collection, USDA-ARS National Center for Agricultural Utilization Research, 1815 N. University, Peoria, Illinois 61604, USA
PSU	The Pennsylvania State University, 211 Buckhout Laboratory, University Park, Pennsylvania 16802, USA
QEC	Queen Elizabeth College, University of London, Department of Biology, Campden Hill Road, London W8 7AH, England, UK
QM	U.S. Army Natick Laboratories (formerly, Quartermaster Research and Development Center), Natick Massachusetts. Note: This collection has been transferred to NRRL.
RSA	Rancho Santa Ana Botanic Garden, 1500 North College Ave., Claremont, California 91711, USA
SBI	Sugarcane Breeding Institute, Indian Council of Agricultural Research, Coimbatore – 641 007, Tamil Nadu, India
UAF	University of Arkansas, Edpartment of Entomology, 321 Agriculture Building, Fayetteville, Arkansas 72701, USA
UAMH	University of Alberta Microfungus Collection, Devonian Botanic Garden, University of Alberta, Alberta T6G 2H7, Canada

Unidentified / Hyphomycetes

- 2177 MC Rombach (130586-18). *Recilia dorsalis* [Hemiptera: Cicadellidae] on rice. 13 May 1986. Philippines: nr. Baybay, Leyte.
- 3142 AT Gillespie ← J Aagesen. *Thrips tabaci* [Thysanoptera: Thripidae] on cucumber. Rec'd 27 Nov 1990. Denmark: Copenhagen, Tåstrup, Zealand.
- 4689 J McManus (Dn26.Cont.3p). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL, Ithaca, New York. Laboratory contaminant found during routine screening assays. Suspected established contaminant which has accounted for large numbers of deaths in an established colony of RWA in quarantine facility.
- 4690 J McManus (Dn29.Cont.3p). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Jul 1994. USA: USDA, Ithaca, New York. Laboratory contaminant found during routine screening assays. Suspected established contaminant which has accounted for large numbers of deaths in an established colony of RWA in quarantine facility.
- 5698 JM Sung (KEFC-1109). *Acanthosoma labiduroides* [Hemiptera: Pentatomidae]. 28 Jun 1997. Republic of Korea: Mt. Gyaeryong, Chungnam Province.
- 6503 S Gouli and V Gouli (GA-330). [Hemiptera: Aphididae] on *Solidago gigantea* Ait., Late Goldenrod. 17 Aug 1998. USA: Burlington, Vermont.
- 6504 S Gouli and V Gouli (GA-347). Adult, *Lygus lineolaris* [Hemiptera: Miridae] on *Brassica oleracea* L., broccoli. Oct 1999. USA: Starksboro, Vermont.
- 7067 TG Andreadis. *Fiorinia externa* [Hemiptera: Diaspididae]. Rec'd 18 Oct 2002.
- 7076 KT Hodge (PR22). [Hemiptera: spf. Coccoidea] on leaf of *Schefflera morototoni*. 5 Jul 2002. USA: El Yunque, Caribbean National Forest, Bisley Trail, Río Grande Municipio, Puerto Rico.
- 7081 KT Hodge (PR34). [Hemiptera: spf. Coccoidea] on living fern pinnae. 6 Jul 2002. USA: El Yunque, Caribbean National Forest, Tradewinds Trail, Río Grande Municipio, Puerto Rico.
- 7086 KT Hodge (PR58A). [Hemiptera: spf. Coccoidea]. 8 Jul 2002. USA: Bosque Estatal de Susúa, Trail 5, Camino Mariano, Puerto Rico.
- 7383 SB Alves. *Orthezia insignis* [Hemiptera: Ortheziidae]. Rec'd 28 Jul 2004. Brazil. **RESTRICTED ACCESS:** *contact Curator.*
- 7386 M Liu (ml180). [Hemiptera: Coccoidea]. 16 Dec 2003. USA: Guilarte, Adjuntas, Puerto Rico.
- 7392 M Liu (ml166). [Hemiptera] on fern. Dec 2003. USA: Route 105 between Mayaguez and Maricao, Puerto Rico.
- 7806 [SRCAMB B-56] V Likhovidov ← BA Borisov. [Hemiptera] Isolated from stroma. 27 Jul 2002. Russian Federation: Kunashir Island, Sakhalin Region. Field Collection Number F-283.
- 8640 [ARSEF 7985; CENARGEN CG 422] *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 18 Sep 2007. Brazil: Dom Aquino, Mato Grosso. **RESTRICTED ACCESS:** *consult Curator.*
- 9364 [ERL 1659] S Gouli and V Gouli (HWA-G-15). *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: New Hampshire.
- 9366 [ERL 1666] S Gouli (HWA-G-25) and V Gouli. *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: New Hampshire.
- 9538 [SRCAMB VL-1632/1] V Likhovidov. *Parthenolecanium corni* [Hemiptera: Coccidae]. 18 Sep 2004. Russian Federation: Caucasus region, Mostovsky District, Krasnodarsky Krai. Field Collection Number F-474.
- 9539 [SRCAMB VL-1555/2] V Likhovidov. [Hemiptera: Aleyrodidae]. 12 Sep 2004. Russian Federation: Caucasus region, Sochi District, Krasnodarsky Krai. Field Collection Number F-506.
- 10191 [ERL 1869] S Gouli (Thr.-10-77) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Westfield, Vermont.
- 10282 [ERL 1927] S Gouli (Thr.-10-133) and D Tobi. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10283 [ERL 1928] S Gouli and V Gouli (Thr.-10-134). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10284 [ERL 1929] S Gouli (Thr.-10-135) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10285 [ERL 1930] S Gouli (Thr.-10-136) and D Tobi. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10286 [ERL 1931] S Gouli and V Gouli (Thr.-10-137). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10292 [ERL 1937] S Gouli and V Gouli (Thr.-10-143). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10293 [ERL 1938] S Gouli (Thr.-10-144) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10307 [ERL 1952] S Gouli and V Gouli (Thr.-10-158). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10386 [ERL 1959] S Gouli (SB-10-6) and V Gouli. *Halymorpha halys* [Hemiptera: Pentatomidae]. 2010. USA: New Jersey.
- 10387 [ERL 1960] S Gouli and V Gouli (SB-10-7). *Halymorpha halys* [Hemiptera: Pentatomidae]. 2010. USA: New Jersey.
- 10392 [ERL 1965] S Gouli (SB-10-12) and V Gouli. *Halymorpha halys* [Hemiptera: Pentatomidae]. 2010. USA: New Jersey.

- 12085 [ERL 2172] S Gouli and V Gouli (PS-12/34). Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Charlestown, Rhode Island.
- 12086 [ERL 2173] S Gouli (HWA-12/1) and V Gouli. Nymph, *Adelges tsugae* [Hemiptera: Adelgidae] on *Tsuga canadensis* (L.) Carrière, eastern hemlock. Sep 2012. USA: Dummerston, Vermont.
- 12087 [ERL 2174] S Gouli and V Gouli (HWA-12/2). Nymph, *Adelges tsugae* [Hemiptera: Adelgidae] on *Tsuga canadensis* (L.) Carrière, eastern hemlock. Sep 2012. USA: Dummerston, Vermont.
- 12088 [ERL 2175] S Gouli (HWA-12/3) and V Gouli. Nymph, *Adelges tsugae* [Hemiptera: Adelgidae] on *Tsuga canadensis* (L.) Carrière, eastern hemlock. Sep 2012. USA: Dummerston, Vermont.
- 12090 [ERL 2177] S Gouli (HWA-12/5) and V Gouli. Nymph, *Adelges tsugae* [Hemiptera: Adelgidae] on *Tsuga canadensis* (L.) Carrière, eastern hemlock. Sep 2012. USA: Dummerston, Vermont.

Unidentified / Zygomycetes

- 2022 IL Sivcev (55/85). *Aphis fabae* [Hemiptera: Aphididae] on poppy. 1985. Yugoslavia: Micunovo, Vovvodina.
- 4970 J McManus (DnId95Co24p). *Diuraphis noxia* [Hemiptera: Aphididae]. 12 Jun 1995. USA: Experimental plot; U. Idaho Research & Extension Center, Aberdeen, Idaho.
- 4971 J McManus (DnId95Co14p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Jun 1995. USA: Experimental plot; U. Idaho Research & Extension Center, Aberdeen, Idaho.
- 6119 BL Parker (GA 339). Adult, *Acyrtosiphon pisum* [Hemiptera: Aphididae]. 16 Feb 1999. Syria: ICARDA.
- 6157 BL Parker (GA-267-10). [Hemiptera: Aphididae] on *Asclepias syriaca*. 26 Sep 1997. USA: Burlington, Vermont.
- 6158 BL Parker (GA-279). [Hemiptera: Aphididae] on *Asclepias syriaca*. 28 Sep 1997. USA: Burlington, Vermont.
- 6159 BL Parker (GA-305). [Hemiptera: Aphididae] on bean. 16 Oct 1997. USA: Burlington, Vermont.
- 6160 BL Parker (GA-337). *Acyrtosiphon pisum* [Hemiptera: Aphididae]. 16 Feb 1999. Syria: ICARDA.
- 6507 S Gouli and V Gouli (GA-356). [Hemiptera: Aphididae] on *Lactuca sativa* L., lettuce. 12 Sep 1999. USA: Burlington, Vermont.
- 6508 S Gouli and V Gouli (GA-357). [Hemiptera: Aphididae] on *Asclepias syriaca* L., Common Milkweed. 26 Sep 1999. USA: Burlington, Vermont.
- 6509 S Gouli and V Gouli (GA-358). [Hemiptera: Aphididae] on *Pisum sativum* L., garden peas. 7 Aug 1999. USA: Burlington, Vermont.
- 6510 S Gouli and V Gouli (GA-359). [Hemiptera: Aphididae] on *Capsicum annuum* L., pepper. 25 Sep 1999. USA: Burlington, Vermont.
- 6511 S Gouli and V Gouli (GA-360). [Hemiptera: Aphididae] on *Brassica oleracea* L., cabbage. 25 Sep 1999. USA: Burlington, Vermont.

Unidentified sp.

These fungi were accessioned without verified identifications. Many strains listed here will be reassigned to known taxa as quickly as the opportunity allows. Some strains are undescribed new species; some are sterile and may not be identifiable to a level lower than the class.

- 1423 S Balazy (1508m). Juveniles & adults, [Hemiptera] attached to underside of leaves of *Stachys silvaticus* in a leafy forest. 26 Jul 1982. Poland: Wielkopolski National Park.
- 1693 IL Sivcev (202). Alate, [Hemiptera: Aphididae] on cabbage. 26 Jun 1984. Yugoslavia: PKB Commune, E. Belgrade.
- 1694 IL Sivcev (216). Alate, [Hemiptera: Aphididae] on cabbage. 10 Jul 1984. Yugoslavia: PKB Commune, E. Belgrade.
- 3122 G Mercadier and TJ Poprawski (8854 (first form)). [Hemiptera: Aphididae] on *Bromus* sp. 10 Aug 1988. France: Béhoust, Yvelines.
- 3125 G Mercadier and TJ Poprawski (9009). [Hemiptera: Aphididae] on asparagus. 30 May 1990. France: Béhoust, Yvelines.
- 3128 M Wheeler. *Empoasca fabae* [Hemiptera: Cicadellidae]. 12 Oct 1990. USA: greenhouse colony, Ithaca, New York.
- 3239 I Majchrowicz (2) ← GL Nordin. *Myzus nicotinae* [Hemiptera: Aphididae]. Rec'd 20 Sep 1991. USA: Kentucky.
- 3256 M Brownbridge (E). Green larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 28 Nov 1990. USA: Hunterdon, New Jersey.
- 3304 J Gutierrez Samperio (20) ← ERD Reyes. *Dialeurodes citri* [Hemiptera: Aleyrodidae] on Citrus. 1990. Mexico: Tecmán, Colima.
- 3319 M Brownbridge (Perry 3). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. Rec'd 19 Mar 1991. Location not specified.
- 3368 N Underwood ← SP Wraight. *Metopolophium dirhodum* [Hemiptera: Aphididae] on late-sown spring wheat. 9 Jul 1991. USA: SW Idaho R/E Center, Parma, Idaho.
- 3374 MB von Wechmar ← JM Laubscher. *Rhopalosiphum padi* [Hemiptera: Aphididae]. Sep 1989. South Africa: (32.48 S; 18.53 E) Pools, South Western Cape, Cape Province. Virus contaminants: aphid lethal paralysis virus (ALPV) and *Rhopalosiphum padi* virus (RhPV); Family: Picornaviridae, (tentative genus: *Enterovirus*).

- 3536 J Hernández Ramírez (2). *Prosapia simulans* [Hemiptera: Cercopidae]. Rec'd 23 Jan 1992. Costa Rica.
- 3560 M Brownbridge (R-28). Mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Ralph's sugar maple stand, Warren, Vermont.
- 3570 M Brownbridge (WFT-3). *Frankliniella occidentalis* [Thysanoptera: Thripidae] on chrysanthemum. Aug 1991. USA: greenhouse, Burlington, Vermont.
- 3773 SP Wraight (SPW-13). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 18 Jul 1992. India: Padappai.
- 3779 SP Wraight (SPW-14). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] eggplant leaves. 18 Jul 1992. India: Padappai.
- 3798 ERD Reyes (PF2). Adult, *Bemisia* sp. [Hemiptera: Aleyrodidae] watermelon. 31 Jul 1990. Mexico: Colima.
- 3799 ERD Reyes (PF3). Adult, *Bemisia* sp. [Hemiptera: Aleyrodidae] watermelon. 6 Jan 1991. Mexico: Colima.
- 3801 ERD Reyes (SMB1). Adult, *Bemisia* sp. [Hemiptera: Aleyrodidae] watermelon. 9 Feb 1992. Mexico: Colima.
- 3802 ERD Reyes (SMBIII). Adult, *Bemisia* sp. [Hemiptera: Aleyrodidae] watermelon. 9 Feb 1992. Mexico: Colima.
- 3805 ERD Reyes (MBP). Adult, *Bemisia* sp. [Hemiptera: Aleyrodidae] Chili. 9 Oct 1991. Mexico: Yucatán.
- 3806 ERD Reyes (MBCH). Adult, *Bemisia* sp. [Hemiptera: Aleyrodidae] Chili. 9 Oct 1991. Mexico: Yucatán.
- 3807 ERD Reyes (PFY). Adult, *Bemisia* sp. [Hemiptera: Aleyrodidae] Chili. 9 Oct 1991. Mexico: Yucatán.
- 3842 LA Lacey (92101). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cotton. 27 Sep 1992. Pakistan: Multan.
- 3844 LA Lacey (92133). ?, *Bemisia tabaci* [Hemiptera: Aleyrodidae] ?. Rec'd 24 Nov 1992. Nepal: Katmandu Valley, Katmandu.
- 3845 LA Lacey (92113). ?, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cotton. 14 Oct 1992. Pakistan: Multan.
- 3847 LA Lacey (92102). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cotton. 4 Oct 1992. Pakistan: Multan.
- 3849 LA Lacey (92153). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cotton. 8 Sep 1992. Pakistan: Multan.
- 3850 LA Lacey (92124). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cotton. 16 Oct 1992. Pakistan: Multan.
- 3869 LA Lacey (92158). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 11 Sep 1992. India: Podumbu.
- 3876 LA Lacey (92117) ← D Shakeel. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 27 Jan 1993. Pakistan: Multan.
- 3894 LA Lacey (92075) ← G Mercadier. [Hemiptera: Aphididae]. 19 Jun 1992. USSR: Caucasus . Host: cereal aphids.
- 3990 LA Lacey (93027) ← A Lacasa. *Haplothrips tritici* [Thysanoptera: Phlaeothripidae]. 1993. Spain: Murcia.
- 3991 LA Lacey (93028) ← A Lacasa. *Haplothrips tritici* [Thysanoptera: Phlaeothripidae]. 1993. Spain: Murcia.
- 3992 LA Lacey (93029) ← A Lacasa. *Haplothrips tritici* [Thysanoptera: Phlaeothripidae]. 1993. Spain: Murcia.
- 3993 LA Lacey (93030) ← A Lacasa. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. 1993. Spain: Murcia.
- 3994 LA Lacey (93031) ← A Lacasa. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. 1993. Spain: Murcia.
- 3997 LA Lacey (93034) ← A Lacasa. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. 1993. Spain: Murcia.
- 4000 LA Lacey (93037) ← Heruies. [Hemiptera: Membracidae]. 4 Apr 1993. Brazil: Bahia.
- 4003 LA Lacey (93040) ← Heruies. [Hemiptera: Aleyrodidae] Citrus. 30 Apr 1993. Brazil: Bahia.
- 4201 LA Lacey (94014) ← La Casa. Larva, *Haplothrips tritici* [Thysanoptera: Phlaeothripidae]. 5 May 1993. Spain: Murcia.
- 4202 LA Lacey (94019) ← La Casa. Larva, *Haplothrips tritici* [Thysanoptera: Phlaeothripidae]. Feb 1993. Spain: Murcia.
- 4204 LA Lacey (94035). [Hemiptera: Aphididae] Eggplant. 24 Mar 1994. Malaysia: Kuala Terla.
- 4214 LA Lacey (94046) ← K Hopper. [Hemiptera: Aphididae] Wheat. 19 Mar 1994. Israel: Negeu Desert, Revevim.
- 4215 LA Lacey (94042) ← K Hopper. [Hemiptera: Aphididae] Wheat. 19 Mar 1994. Israel: Negeu Desert, Revevim.
- 6370 Adult, *Aeneolamia varia* [Hemiptera: Cercopidae]. 2 Jul 1997. Colombia: Farm of C.I. La Libertad, Villavicencio, Meta.
- 6463 [CIAT 048] D Peck. Adult, female, *Zulia carbonaria* [Hemiptera: Cercopidae]. 11 May 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.
- 6466 [CIAT 051] D Peck. Adult, female, *Zulia carbonaria* [Hemiptera: Cercopidae]. 25 May 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.
- 7070 KT Hodge (PR7). [Hemiptera: Aleyrodidae] on large leaves. 5 Jul 2002. USA: El Yunque, Caribbean National Forest, Anhalito Trail, tabonuco forest, Río Grande Municipio, Puerto Rico.
- 9921 [ERL 1756] S Gouli (HWA-G-34) and V Gouli. *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: Maine.

***Acremonium* sp.**

[Sordariomycetes: Hypocreales]

- 4058 T Steenberg (BP2). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Jul 1989. Denmark: Lyngby, Zealand.
- 4059 T Steenberg (BP4). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Jul 1989. Denmark: Lyngby, Zealand.
- 4063 T Steenberg (TT5) ← H Brødsgaard. *Thrips tabaci* [Thysanoptera: Thripidae]. Jul 1989. Denmark: Greenhouse, Lyngby, Zealand.
- 5773 BL Parker (AT 145). *Adelges tsugae* [Hemiptera: Adelgidae]. Oct 1997. USA: Forest Park, Massachusetts.
- 11667 JL Hatting (MSIRI 58). *Pulvinaria iceryi* [Hemiptera: Coccidae]. 25 Jul 2011. Mauritius: Sugarcane field, Mare d’Australia, Flacq.

***Acremonium bactrocephalum* W Gams**

[Sordariomycetes: Hypocreales]

- 10166 [ERL 1828] S Gouli (Thr.-10-36) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Richford, Vermont.
- 10167 [ERL 1829] S Gouli and V Gouli (Thr.-10-37). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10168 [ERL 1830] S Gouli (Thr.-10-38) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10169 [ERL 1831] S Gouli and V Gouli (Thr.-10-39). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Langdon, New Hampshire.

***Acremonium psammosporum* W Gams**

[Sordariomycetes: Hypocreales]

- 4062 T Steenberg (TT3) ← H Brødsgaard. *Thrips tabaci* [Thysanoptera: Thripidae]. Jul 1989. Denmark: Greenhouse, Lyngby, Zealand.

***Acremonium*(?) sp.**

[Sordariomycetes: Hypocreales]

- 7031 RG Hollingsworth (KNF2001-10). *Frankliniella occidentalis* [Thysanoptera: Thripidae] from laboratory colony. 16 May 2001. USA: U. S. Pacific Basin Agricultural Research Center, Hilo, Hawaii.
- 7036 RG Hollingsworth (KNF2002-6). [Hemiptera: Coccidae]. 26 Jan 2002. USA: Bird Park, Volcano, Hawaii.
- 9368 [ERL 1668] S Gouli (HWA-G-17) and V Gouli. *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: New Hampshire.

***Aphanocladium* sp.**

[Sordariomycetes: Hypocreales]

- 8457 [CEP 200; LPSC 879] AV Toledo. Adult, *Delphacodes kuscheli* [Hemiptera: Delphacidae] on *Hordeum vulgare* L., barley. 6 Jun 2005. Argentina: La Plata, Buenos Aires.

- 8458 [CEP 201; LPSC 880] AV Toledo. Adult, *Delphacodes kuscheli* [Hemiptera: Delphacidae] on *Hordeum vulgare* L., barley. 6 Jun 2005. Argentina: Los Hornos, Buenos Aires.

***Aphanocladium album* (Preuss) Gams**

[Sordariomycetes: Hypocreales]

Nectriaceae

- 3680 LS Osborne. *Bemisia tabaci* [Hemiptera: Aleyrodidae] on tomato. Rec’d Apr 1992. USA: Apopka, Florida.
- 5756 BL Parker (SPT 026/2). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 21 Jan 1998. Syria: Al Kilabia.

***Aschersonia* sp.**

[Sordariomycetes: Hypocreales]

Clavicipitaceae

- 2351 [ARSEF 2397] MC Rombach (131286-19). Larva, *Dialeurodes citri* [Hemiptera: Aleyrodidae] on *Philodendron* sp. 13 Dec 1986. Indonesia: tropical rainforest, Gunung Merapi, Yogyakarta, Java.
- 2357 [ARSEF 2392 (never frozen)] MC Rombach (301286-7). *Dialeurodes citri* [Hemiptera: Aleyrodidae]. 30 Dec 1986. Philippines: rainforest, Mt. Makiling, Los Baños, Manila.
- 2358 [ARSEF 2393 (never frozen)] MC Rombach (301286-8). Larva, *Dialeurodes citri* [Hemiptera: Aleyrodidae] on *Maoutia* sp. 30 Dec 1986. Philippines: rainforest, Mt. Makiling, Los Baños, Manila.
- 2397 [ARSEF 2351] MC Rombach (131286-19). Larva, *Dialeurodes citri* [Hemiptera: Aleyrodidae] on *Philodendron* sp. 13 Dec 1986. Indonesia: tropical rainforest, Gunung Merapi, Yogyakarta, Java.
- 2398 MC Rombach (131286-13). Larva, *Dialeurodes citri* [Hemiptera: Aleyrodidae] on *Philodendron* sp. 13 Dec 1986. Indonesia: Gunung Merapi, Yogyakarta, Java.
- 3014 SR Sánchez Peña. [Hemiptera: Aleyrodidae] on *Citrus* sp. (orange) leaves. 26 May 1990. Mexico: orange (Citrus) orchard, Gómez Farias, Tamaulipas.
- 3015 SR Sánchez Peña. Nymph, [Hemiptera] on *Ficus* sp. 26 May 1990. Mexico: orange (Citrus) orchard, Gómez Farias, Tamaulipas.
- 4207 LA Lacey (94039). [Hemiptera: Aleyrodidae]. 23 Mar 1994. Malaysia: Ringlet.
- 4208 LA Lacey (94037). [Hemiptera: Aleyrodidae]. 8 Mar 1994. Thailand: Kao Yai.
- 4210 LA Lacey (94038). [Hemiptera: Aleyrodidae]. 28 Mar 1994. Malaysia: Kuala Lumpur.
- 4424 LA Lacey (94010). *Dialeurodes citri* [Hemiptera: Aleyrodidae]. 20 Jan 1994. Brazil: Londrina, Paraná.
- 4426 LA Lacey (94098). *Dialeurodes citri* [Hemiptera: Aleyrodidae]. 20 Jan 1994. Brazil: Londrina, Paraná.
- 4430 LA Lacey (94102). *Dialeurodes citri* [Hemiptera: Aleyrodidae]. 20 Jan 1994. Brazil: Londrina, Paraná.

- 4431 LA Lacey (94103). *Dialeurodes citri* [Hemiptera: Aleyrodidae]. 20 Jan 1994. Brazil: Londrina, Paraná.
- 4432 LA Lacey (94104). *Dialeurodes citri* [Hemiptera: Aleyrodidae]. 20 Jan 1994. Brazil: Londrina, Paraná.
- 4433 LA Lacey (94024). [Hemiptera: Aleyrodidae] Ginger. 8 Mar 1994. Thailand: Kao Yaï.
- 4435 LA Lacey (94080). [Hemiptera: Aleyrodidae] Ginger. 8 Mar 1994. Thailand: Kao Yaï.
- 4436 LA Lacey (94081). [Hemiptera: Aleyrodidae] Ginger. 8 Mar 1994. Thailand: Kao Yaï.
- 4437 LA Lacey (94082). [Hemiptera: Aleyrodidae] Ginger. 8 Mar 1994. Thailand: Kao Yaï.
- 4438 LA Lacey (94083). [Hemiptera: Aleyrodidae] Ginger. 8 Mar 1994. Thailand: Kao Yaï.
- 4439 LA Lacey (94084). [Hemiptera: Aleyrodidae] Ginger. 8 Mar 1994. Thailand: Kao Yaï.
- 4440 LA Lacey (94085). [Hemiptera: Aleyrodidae] Ginger. 8 Mar 1994. Thailand: Kao Yaï.
- 4441 LA Lacey (94086). [Hemiptera: Aleyrodidae] Ginger. 8 Mar 1994. Thailand: Kao Yaï.
- 4442 LA Lacey (94087). [Hemiptera: Aleyrodidae] Ginger. 8 Mar 1994. Thailand: Kao Yaï.
- 4443 LA Lacey (94088). [Hemiptera: Aleyrodidae] Ginger. 8 Mar 1994. Thailand: Kao Yaï.
- 4444 LA Lacey (94089). [Hemiptera: Aleyrodidae] Ginger. 8 Mar 1994. Thailand: Kao Yaï.
- 4445 LA Lacey (94090). [Hemiptera: Aleyrodidae] Ginger. 8 Mar 1994. Thailand: Kao Yaï.
- 4448 LA Lacey (94092). [Hemiptera: Aleyrodidae] Malastroma. 28 Mar 1994. Malaysia: Kuala Lumpur.
- 4449 LA Lacey (94093). [Hemiptera: Aleyrodidae] Malastroma. 28 Mar 1994. Malaysia: Kuala Lumpur.
- 5215 KT Hodge (FAH121) ← FA Harrington (FH121). [Hemiptera: Aleyrodidae] Fern leaves. Jan 1996. USA: Reserva Forestal Guajataca, Puerto Rico.
- 5216 KT Hodge (U0043). [Hemiptera: Aleyrodidae] Mimiropsis leaves. 4 Jul 1995. Uganda: Bwindi Swamp Camp, Bwindi Impenetrable National Park.
- 7085 KT Hodge (PR58). [Hemiptera: spf. Coccoidea] on fronds of *Zamia portoricensis*. 8 Jul 2002. USA: Bosque Estatal de Susúa, Trail 5, Camino Mariano, Puerto Rico.
- 10276 DEN Rangel. Larva, [Hemiptera: Coccidae] on leaves of guava tree. 22 Jun 2011. Brazil: Universidade do Vale do Paraíba, Campus Urbanova, São José dos Campos, São Paulo.
- Aschersonia aleyrodidis*** Webber
[Sordariomycetes: Hypocreales]
Clavicipitaceae
-
- 341 I Majchrowicz. Larva, *Dialeurodes ?citri* [Hemiptera: Aleyrodidae] on citrus. Oct 1978. USA: Lake Alfred, Florida.
- 342 I Majchrowicz. Larva, *Dialeurodes ?citri* [Hemiptera: Aleyrodidae] on citrus. Oct 1978. USA: Lake Alfred, Florida.
- 430 RS Soper. [Hemiptera: Aleyrodidae] on citrus leaves. 9 Jan 1980. USA: Lake Alfred, Florida.
- 432 RS Soper. [Hemiptera: Aleyrodidae] on citrus leaves. 9 Jan 1980. USA: Zephyr Hills, Lake Alfred, Florida.
- 992 J Aoki (Ash. 1) ← K Oshima ← N Oho. *Dialeurodes citri* [Hemiptera: Aleyrodidae]. Rec'd 7 Nov 1983. Japan: Saga Prefecture.
- 2154 MC Rombach (220386-1). *Aglaia odoratissima* [Hemiptera: Aleyrodidae]. 22 Mar 1986. Indonesia: Bogor Botanical Gardens, Bogor, Jawa Barat, Java.
- 2268 JJ Fransen ← RA Samson. *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae]. Rec'd 14 Oct 1986. Netherlands: Baarn, Utrecht.
- 4209 LA Lacey (94-41). [Hemiptera: Aleyrodidae]. 28 Mar 1994. Malaysia: Kuala Lumpur.
- 9535 [SRCAMB B-413] V Likhovidov ← BA Borisov. Larva, *Dialeurodes citri* [Hemiptera: Aleyrodidae]. Aug 2003. Republic of Georgia: Autonomous Republic of Abkhazi. Field Collection Number F-931.
- Aschersonia andropogonis*** P Hennings
[Sordariomycetes: Hypocreales]
Clavicipitaceae
-
- 7391 M Liu (ml165). [Hemiptera] on fern. Dec 2003. USA: Route 105 between Mayaguez and Maricao, Puerto Rico.
- Aschersonia goldiana*** Saccardo & Ellis
[Sordariomycetes: Hypocreales]
Clavicipitaceae
-
- 343 I Majchrowicz. Larva, *Dialeurodes ?citri* [Hemiptera: Aleyrodidae] on citrus. Oct 1978. USA: Lake Alfred, Florida.
- Aschersonia insperata*** Rombach, M Liu, Humber & KT Hodge
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Cultures produce both the *Aschersonia* state and a synanamorph, *Hirsutella inasperata* (q.v.).
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- 2356 [ARSEF 2391 (never frozen)] MC Rombach (201286-8). Larva, *Dialeurodes citri* [Hemiptera: Aleyrodidae] on *Maoutia* sp. 20 Dec 1986. Philippines: rainforest, Mt. Makiling, Los Baños, Manila.
- 2396 MC Rombach (301286-9). *Dialeurodes citri* [Hemiptera: Aleyrodidae]. 30 Dec 1986. Philippines: tropical forest, Mt. Makiling, Los Baños, Manila.
- Aschersonia placenta*** Berkeley
[Sordariomycetes: Hypocreales]
Clavicipitaceae
-
- 7603 [CBS 349.84] M Liu. *Dialeurodes citri* [Hemiptera: Aleyrodidae]. Rec'd 2 Mar 2005. Japan: Saga Prefecture.

7604 [BCC 2230] [Hemiptera: Coccoidea]. Rec'd 20 Sep 2004.

Aschersonia rhombispora M Liu & KT Hodge
 [Sordariomycetes: Hypocreales]
 Clavicipitaceae

7390 M Liu (ml164). [Hemiptera] on fern. Dec 2003. USA: Route 105 between Mayaguez and Maricao, Puerto Rico. Specimen accessioned in the Cornell Plant Pathology Herbarium as CUP-PR 4406. CULTURE EX TYPE.

Aschersonia turbinata (Berkeley) Petch
 [Sordariomycetes: Hypocreales]
 Clavicipitaceae

1030 [GCRI 67-82] RA Hall. [Hemiptera]. 1982. Colombia.

11868 L Guizar-Guzman and SR Sánchez Peña (T-1). *Aonidiella aurantii* [Hemiptera: Diaspididae] on *Citrus sinensis* (L.) Osbeck, sweet orange tree. 10 Oct 2012. Mexico: Ixtacuaco, Tlapacoyan, Veracruz. N 20.041982, W 97.096353.

11869 L Guizar-Guzman and SR Sánchez Peña (T-2). *Aonidiella aurantii* [Hemiptera: Diaspididae] on *Citrus sinensis* (L.) Osbeck, sweet orange tree. 10 Oct 2012. Mexico: Ixtacuaco, Tlapacoyan, Veracruz. N 20.041982, W 97.096353.

Ascopolyporus philodendrus Bischoff
 [Sordariomycetes: Hypocreales]
 Cordycipitaceae

7354 JF Bischoff. [Hemiptera: Coccoidea] on *Philodendron* sp., Araceae. Rec'd 12 Mar 2004. Panama: Barro Colorado Island. CULTURE EX TYPE.

Ascopolyporus villosus Möller
 [Sordariomycetes: Hypocreales]
 Cordycipitaceae

7355 JF Bischoff. [Hemiptera: Coccoidea] on *Chusquea* sp., Poaceae. Rec'd 12 Mar 2004. Panama: Barro Colorado Island.

***Aspergillus* sp.**
 [Eurotiomycetes: Eurotiales]
 Trichocomaceae

3698 LA Lacey (Ma16). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 8 Apr 1992. India: Padappai.

6369 Adult, female, *Aeneolamia varia* [Hemiptera: Cercopidae]. 2 Jul 1997. Colombia: Farm of C.I. La Libertad, Villavicencio, Meta.

6399 B Tunali (20). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 5 Jul 1999. Turkey: Kinkale, Ankara.

6405 B Tunali (29). *Dolycorus* sp. [Hemiptera: Pentatomidae]. 4 Oct 1999. Turkey: Adiyaman.

6406 B Tunali (31). *Dolycorus* sp. [Hemiptera: Pentatomidae]. 4 Oct 1999. Turkey: Adiyaman.

6408 B Tunali (33). *Dolycorus* sp. [Hemiptera: Pentatomidae]. 4 Oct 1999. Turkey: Adiyaman.

8280 BN Tiwary (IF-7). *Nezara viridula* [Hemiptera: Pentatomidae]. 4 Nov 2005. India: Purnea, Bihar.

8519 BN Tiwary (SFN-1). Nymph, *Sogatella furcifera* [Hemiptera: Delphacidae]. 27 Dec 2006. India: Patna University, Patna, Bihar.

Aspergillus clavatus Desmazières
 [Eurotiomycetes: Eurotiales]
 Trichocomaceae

4359 DW Roberts. *Myzus persicae* [Hemiptera: Aphididae]. Feb 1994. Brazil: Castro, Paraná.

9375 JG Banu (1). *Phenacoccus solenopsis* [Hemiptera: Pseudococcidae]. Aug 2008. India: Allappalayam, Coimbatore, Tamil Nadu.

Aspergillus flavus Link:Fries
 [Eurotiomycetes: Eurotiales]
 Trichocomaceae

9376 JG Banu (2). *Phenacoccus solenopsis* [Hemiptera: Pseudococcidae]. Aug 2008. India: Allappalayam, Coimbatore, Tamil Nadu.

Aspergillus niger van Tieghem
 [Eurotiomycetes: Eurotiales]
 Trichocomaceae

5721 L Erkiliç (Belen-1). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 30 Mar 1998. Turkey: Belen, Gaziantep.

6407 B Tunali (32). *Dolycorus* sp. [Hemiptera: Pentatomidae]. 4 Oct 1999. Turkey: Kollubaba.

Aspergillus ochraceus Wilhelm
 [Eurotiomycetes: Eurotiales]
 Trichocomaceae

5722 L Erkiliç (Karadag-1). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 30 Mar 1998. Turkey: Karadag, Gaziantep, Gaziantep.

***Batkoa* sp.**
 [Entomophthoromycotina: Entomophthorales]
 Entomophthoraceae

3131 K Hural (GF-3). *Acyrtosiphon pisum* [Hemiptera: Aphididae] on alfalfa. Oct 1990. USA: Game Farm Rd., Ithaca, New York.

Batkoa apiculata (Thaxter) Humber
 [Entomophthoromycotina: Entomophthorales]
 Entomophthoraceae. The nuclei of this taxon stain well and have granular contents when mounted in aceto-orcin or other nuclear stains. This fungus has a morphologically similar ancylistaceous fungus, *Conidiobolus pseudapiculatus* (q.v.), whose nuclei do not stain well and do not have granular contents.

67 [IPLB 602] G Remaudière. *Myzus ascalonicus* [Hemiptera: Aphididae]. 13 May 1975. France.

- 129 N Wilding (10). *Myzus persicae* [Hemiptera: Aphididae] on potato. 11 Aug 1976. USA: Rogers Farm, Stillwater, Maine.
- 174 FR Holbrook. *Macrosiphum euphorbiae* [Hemiptera: Aphididae] on potato. 7 Jul 1977. USA: Rogers Farm, Stillwater, Maine.
- 839 CSIRO (EM629) ← G Lutton. *Acyrtosiphon kondoi* [Hemiptera: Aphididae] on lucerne “condura”. 17 Jun 1981. Australia: nr. Cooma, Umerella Station, New South Wales.
- 1146 M Shimazu (F-382). *Brevicoryne brassicae* [Hemiptera: Aphididae]. Acc'd 4 Apr 1984. Japan: Shizuoka Prefecture.
- 2504 J Eilenberg (KVL 29). *Acyrtosiphon pisum* [Hemiptera: Aphididae]. Apr 1987. Denmark: Karlebo, Zealand.
- 3080 SP Wraight. *Rhopalosiphum padi* [Hemiptera: Aphididae]. 22 Jun 1990. USA: irrigated wheat field, Piedmont Organic Produce Farm, Wellington, Colorado.
- 3088 MG Feng (MTRM9001). *Rhopalosiphum maidis* [Hemiptera: Aphididae] on late-sown spring grain crop. 31 Jul 1990. USA: Bozeman, Montana.
- 3091 MG Feng (MTRM9004). *Rhopalosiphum maidis* [Hemiptera: Aphididae] on late-sown spring grain crop. 7 Aug 1990. USA: Bozeman, Montana.
- 3130 K Hural (GF-2). *Acyrtosiphon pisum* [Hemiptera: Aphididae] on alfalfa. Oct 1990. USA: Game Farm Rd., Ithaca, New York.
- 3136 K Hural (Hoff-1). *Acyrtosiphon pisum* [Hemiptera: Aphididae] on alfalfa. 16 Oct 1990. USA: Hoffman field, Catherine, New York.
- 3140 K Hural (Hoff-5). *Acyrtosiphon pisum* [Hemiptera: Aphididae] on alfalfa. 16 Oct 1990. USA: Hoffman field, Catherine, New York.
- 5552 KT Hodge. Adult, [Hemiptera: Cicadellidae]. 17 Sep 1997. McLean: Eames' Bog.
- 5994 C Nielsen (KVL 98-17). Alate, *Rhopalosiphum padi* [Hemiptera: Aphididae] on *Prunus padus*. 25 Sep 1998. Denmark: Copenhagen, Zealand.

Batkoa major (Thaxter) Humber

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae

- 1427 RS Soper (84528-1). [Hemiptera: Aphididae]. 28 May 1984. Yugoslavia: plum orchard, Zemun, Belgrade.
- 2936 H Firstencel. *Empoasca fabae* [Hemiptera: Cicadellidae]. 5 Jan 1990. USA: laboratory colony, Ithaca, New York.
- 3102 M Wheeler. *Empoasca fabae* [Hemiptera: Cicadellidae]. 13 Sep 1990. USA: Hoffman field # 6G, Catherine, New York.
- 3103 M Wheeler. *Empoasca fabae* [Hemiptera: Cicadellidae]. 4 Sep 1990. USA: laboratory colony, Ithaca, New York.

***Beauveria* sp.**

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Almost all strains listed here closely resemble *B. bassiana* (or *B. brongniartii*) but were not so identified because of small (and possibly insignificant) differences in conidia size and/or shape.

- 1195 TJ Poprawski (001). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 18 May 1983. Italy: Vetralla, Lazio.
- 1196 TJ Poprawski (002). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 20 May 1983. Italy: Vetralla, Lazio.
- 1197 TJ Poprawski (004). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 20 May 1983. Italy: Vetralla, Lazio.
- 1198 TJ Poprawski (005). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 20 May 1983. Italy: Vetralla, Lazio.
- 1199 TJ Poprawski (013). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 23 May 1983. Italy: Manciano, Toscana.
- 1200 TJ Poprawski (014). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 23 May 1983. Italy: Manciano, Toscana.
- 1201 TJ Poprawski (023). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1202 TJ Poprawski (024). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1203 TJ Poprawski (025). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1204 TJ Poprawski (026). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1205 TJ Poprawski (027). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1206 TJ Poprawski (028). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1207 TJ Poprawski (030). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1208 TJ Poprawski (034). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Piancastagnaio, Toscana.
- 1209 TJ Poprawski (035). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 22 May 1983. Italy: Acquapendente, Lazio.
- 1210 TJ Poprawski (037). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.

- 1211 TJ Poprawski (038). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.
- 1213 TJ Poprawski (046). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.
- 1214 TJ Poprawski (047). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.
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- 3156 G Mercadier and TJ Poprawski (8809D). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. Jun 1988. Turkey: Akyurt, Ankara.
- 3157 G Mercadier and TJ Poprawski (8809E). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. 14 Jun 1988. Turkey: Güdül, Ankara.
- 3158 G Mercadier and TJ Poprawski (8809G). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. 13 Jun 1988. Turkey: Karasar, Ankara.
- 3166 G Mercadier and TJ Poprawski (8835A). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. Jun 1988. Turkey: Bepazari, Ankara.
- 3167 G Mercadier and TJ Poprawski (8835B). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. 13 Jun 1988. Turkey: Ayas, Ankara.
- 3168 G Mercadier and TJ Poprawski (8835C). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. 12 Jun 1988. Turkey: Sirkeli, Ankara.
- 3169 G Mercadier and TJ Poprawski (8835D). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. 13 Jun 1988. Turkey: Urus.
- 3215 G Mercadier and TJ Poprawski (8854 (second form)). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 27 Nov 1990. Laboratory manipulation. Reisolated from ARSEF 3122.
- 3312 J Gutierrez Samperio (28) ← ERD Reyes. [Hemiptera: Membracidae] on sugar cane. 1990. Mexico: Cuauhtémoc, Colima.
- 3385 I Majchrowicz (25-a). *Myzus persicae* [Hemiptera: Aphididae] on potato. 11 Jul 1991. USA: Orchard Farm, Yakima, Washington.
- 3449 [CATIE 13] TG Zoebisch. [Hemiptera: Miridae] on *Erythrina* sp. Apr 1991. Costa Rica: Turrialba, Cartago.
- 3454 [CATIE 18] TG Zoebisch. [Hemiptera: Miridae] on *Erythrina* sp. Apr 1991. Costa Rica: Turrialba, Cartago.
- 3456 [CATIE 20] TG Zoebisch. [Hemiptera: Miridae] on *Erythrina* sp. Apr 1991. Costa Rica: Turrialba, Cartago.
- 3769 DC Steinkraus. *Lygus lineolaris* [Hemiptera: Miridae]. 12 Jun 1992. USA: Little River County, Arkansas.
- 3867 LA Lacey (92178) ← A Farias. *Diuraphis noxia* [Hemiptera: Aphididae]. 28 Jul 1992. France: Montpellier, Hérault.
- 3890 [ARSEF 3385] N Underwood (U3385). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 17 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3891 [ARSEF 3166] N Underwood (3166). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 17 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3892 N Underwood (2457). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 17 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3905 [ARSEF 2882] N Underwood (U2882). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 5 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3906 [ARSEF 1555] N Underwood (U1555). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 29 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3907 [ARSEF 2320] N Underwood (U2320). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 29 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3908 [ARSEF 3908] N Underwood (U3908). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 29 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3995 LA Lacey (93032) ← A Lacasa. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. 1993. Spain: Murcia.
- 3996 LA Lacey (93033) ← A Lacasa. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. 1993. Spain: Murcia.
- 3999 LA Lacey (93036) ← Hermes. [Hemiptera: Membracidae]. 4 Apr 1993. Brazil: Bahia.
- 4091 LA Lacey (94001). *Tibraca limbativentres* [Hemiptera: Pentatomidae]. Rec'd 28 Mar 1994. Brazil.
- 4092 LA Lacey (94002). *Nezara viridula* [Hemiptera: Pentatomidae]. Rec'd 28 Mar 1994. Brazil.
- 4093 LA Lacey (94003). *Nezara viridula* [Hemiptera: Pentatomidae]. Rec'd 28 Mar 1994. Brazil.
- 4099 [ARSEF 2879] J McManus (DnBb2g4p.ss1). *Diuraphis noxia* [Hemiptera: Aphididae]. 5 Apr 1994. Laboratory manipulation: USPSNL; Ithaca, NY. Single spore reisolated from ARSEF 4108.
- 4100 [ARSEF 2879] J McManus (DnBb2g4p.ss2). *Diuraphis noxia* [Hemiptera: Aphididae]. 5 Apr 1994. Laboratory manipulation: USPSNL; Ithaca, NY. Single spore reisolated from ARSEF 4108.

- 4101 [ARSEF 2879] J McManus (DnBb2g4p.ss3). *Diuraphis noxia* [Hemiptera: Aphididae]. 5 Apr 1994. Laboratory manipulation: USPSNL; Ithaca, NY. Single spore reisolate of ARSEF 4108.
- 4106 JD Vandenberg (DnBb2i3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4107 JD Vandenberg (DnBb2h2p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4108 JD Vandenberg (DnBb2g2p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4109 JD Vandenberg (DnBb2d2p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4110 JD Vandenberg (DnBb2b2p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4111 JD Vandenberg (DnBb2e2p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4112 JD Vandenberg (DnBb2f2p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4113 JD Vandenberg (DnBb1a3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4114 JD Vandenberg (DnBb1b3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4115 JD Vandenberg (DnBb1c3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4116 JD Vandenberg (DnBb1d3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4117 JD Vandenberg (DnBb1e3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4118 JD Vandenberg (DnBb1f3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4119 JD Vandenberg (DnBb1g3p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4120 JD Vandenberg (DnBb1h4p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4121 JD Vandenberg (DnBb1j4p). *Diuraphis noxia* [Hemiptera: Aphididae]. 20 Dec 1993. Laboratory manipulation: USPSNL; Ithaca, NY. Reisolate of ARSEF 2879.
- 4200 LA Lacey (94013) ← La Casa. Larva, *Haplothrips tritici* [Thysanoptera: Phlaeothripidae]. 28 Feb 1993. Spain: Murcia.
- 4462 J McManus (DnBb203PSS#1). *Diuraphis noxia* [Hemiptera: Aphididae]. 6 Jun 1994. USA: Ithaca, New York. Single spore isolate derived from a diamond back moth isolation named 5BSS#4.
- 4463 J McManus (DnBb203PSS#2). *Diuraphis noxia* [Hemiptera: Aphididae]. 6 Jun 1994. USA: Ithaca, New York. Single spore isolate derived from a diamond back moth isolation named 5BSS#4.
- 4464 J McManus (DnBb203PSS#3). *Diuraphis noxia* [Hemiptera: Aphididae]. 6 Jun 1994. USA: Ithaca, New York. Single spore isolate derived from a diamond back moth isolation named 5BSS#4.
- 4523 JD Vandenberg (APH3). [Hemiptera: Aphididae] broccoli. Rec'd 13 Jul 1994. USA: Ontario County, New York.
- 4524 JD Vandenberg (APH6). [Hemiptera: Aphididae] broccoli. Rec'd 13 Jul 1994. USA: Ontario County, New York.
- 4691 J McManus (DnBb30.252.3P). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. Manipulation., Ithaca, New York. Reisolate of ARSEF 252. Passed through RWA.
- 4692 J McManus (DnBb30.320.3P). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. Reisolate of ARSEF 320 passed through RWA.
- 4693 J McManus (DnBb30 and 708.3P). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. Reisolate of ARSEF 708 passed through RWA.
- 4694 J McManus (DnBb25 and 2882.3Pss#1). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. Reisolate of ARSEF 2882 passed through RWA.
- 4695 J McManus (DnBb30 and 2883.3P). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. Reisolate of ARSEF 2883 passed through RWA.

- 4696 J McManus (DnBb30 and 3385.3P). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. Reisolate of ARSEF 3385 passed through RWA.
- 4697 J McManus (DnBb25 and F-1.3Pss#1). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. An isolate from grasshoppers named F-2 was passed through and reisolated from RWA during a screening assay.
- 4976 J McManus (DnBbV64.1 2p). Adult, *Diuraphis noxia* [Hemiptera: Aphididae] on barley and wheat. 19 Oct 1995. USA: Laboratory conditions, Ithaca, New York.
- 4977 J McManus (DnBbV64.2 2p). Adult, *Diuraphis noxia* [Hemiptera: Aphididae] on barley and wheat. 19 Oct 1995. USA: Laboratory conditions, Ithaca, New York.
- 4978 J McManus (DnBbV64.3 2p). Adult, *Diuraphis noxia* [Hemiptera: Aphididae] on barley and wheat. 19 Oct 1995. USA: Laboratory conditions, Ithaca, New York.
- 4979 J McManus (DnBbV64.4 2p). Adult, *Diuraphis noxia* [Hemiptera: Aphididae] on barley and wheat. 19 Oct 1995. USA: Laboratory conditions, Ithaca, New York.
- 4981 LA Lacey (95036) ← TJ Poprawski. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 1 Jul 1994. Philippines: Luzon.
- 4982 LA Lacey (95037) ← TJ Poprawski. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 1 Jul 1994. Philippines: Luzon.
- 4983 LA Lacey (95038) ← TJ Poprawski. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 1 Jul 1994. Philippines: Luzon.
- 4984 LA Lacey (95039) ← TJ Poprawski. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 1 Jul 1994. Philippines: Luzon.
- 5170 S Gouli (GA-82). *Adelges tsugae* [Hemiptera: Adelgidae] on *Tsuga canadensis*. 29 Jan 1996. USA: Mt. Tom, Holyoke, Massachusetts.
- 5171 S Gouli (GA-83). *Adelges tsugae* [Hemiptera: Adelgidae] on *Tsuga canadensis*. 14 Feb 1996. USA: Mt. Tom, Holyoke, Massachusetts.
- 5274 SARL (41) ← SP Wraight (Lacey 92221-Bt1) ← L Lacey (92221-Bt1) and SARL (33). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 9 Aug 1996. Location not specified: Laboratory Manipulation.
- 5275 SARL (106) ← SP Wraight (252-Bt-1; SPW-42) ← ARSEF (252). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 9 Aug 1996. Location not specified: Laboratory Manipulation.
- 5276 SARL (107) ← SP Wraight (252 Bt-2; SPW-43) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 9 Aug 1996. Location not specified: Laboratory Manipulation.
- 5277 SARL (108) ← SP Wraight (252-Bt-3; SPW-44) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 9 Aug 1996. Location not specified: Laboratory manipulation.
- 5278 SARL (110) ← SP Wraight (252-Bt-1) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Pointsettia. 19 Aug 1993. USA: Laboratory manipulation, South Burlington, Vermont.
- 5279 SARL (111) ← SP Wraight (252-Bt-3) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Pointsettia. 19 Aug 1993. USA: Laboratory manipulation, South Burlington, Vermont.
- 5280 SARL (112) ← SP Wraight (252-BT-4) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Pointsettia. 19 Aug 1993. USA: Laboratory manipulation, South Burlington, Vermont.
- 5281 SARL (122) ← SP Wraight (252-Bt-5) ← ARSEF (252) ← SARL (22). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 9 Aug 1996. Location not specified: Laboratory manipulation.
- 5282 SARL (123) ← SP Wraight (252-Bt-6) ← SARL (22) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 1 Apr 1993. Location not specified: Laboratory manipulation.
- 5283 SARL (133) ← SARL (133) ← SP Wraight (252-Bt-1) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cotton. Rec'd 9 Aug 1996. USA: Laboratory manipulation/Field trail, Phoenix, Arizona.
- 5284 SARL (134) ← SP Wraight (252-BT-2) ← ARSEF (252). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cotton. Rec'd 9 Aug 1996. USA: Laboratory manipulation/Field trail, Phoenix, Arizona.
- 5285 SARL (144) ← SP Wraight (252-Bt-x3) ← ARSEF (252). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 9 Aug 1996. Location not specified: Laboratory manipulation.
- 5287 SARL (160) ← RI Carruthers, JC Legaspi and TJ Poprawski (9436). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Hollyhock. Mar 1994. Philippines: Baguio, Benguet.
- 5288 SARL (161) ← RI Carruthers, JC Legaspi and TJ Poprawski (9446). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Hollyhock. Mar 1994. Philippines: Baguio, Benguet.
- 5289 SARL (162) ← RI Carruthers, JC Legaspi and TJ Poprawski (9432). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] *Helianthus* sp. Mar 1994. Philippines: Baguio, Benguet.
- 5290 SARL (163) ← RI Carruthers, JC Legaspi and TJ Poprawski (9474). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] *Helianthus* sp. Mar 1994. Philippines: Baguio, Benguet.
- 5291 SARL (164) ← RI Carruthers, JC Legaspi and TJ Poprawski (9499). Adult, *Bemisia tabaci* [Hemiptera:

- Aleyrodidae] *Helianthus* sp. Mar 1994. Philippines: Baguio, Benguet.
- 5292 SARL (165) ← RI Carruthers, JC Legaspi and TJ Poprawski (9494). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Hollyhock. Mar 1994. Philippines: Baguio, Benguet.
- 5293 SARL (166) ← RI Carruthers, JC Legaspi and TJ Poprawski (9485). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] *Helianthus* sp. Mar 1994. Philippines: Baguio, Benguet.
- 5294 SARL (167) ← RI Carruthers, JC Legaspi and TJ Poprawski (9480). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] *Helianthus* sp. Mar 1994. Philippines: Baguio, Benguet.
- 5295 SARL (168) ← RI Carruthers, JC Legaspi and TJ Poprawski (9429). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] *Helianthus* sp. Mar 1994. Philippines: Baguio, Benguet.
- 5296 SARL (169) ← RI Carruthers, JC Legaspi and TJ Poprawski (9423). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] *Helianthus* sp. Mar 1994. Philippines: Baguio, Benguet.
- 5493 M Brownbridge (FREY2). *Aphis gossypii* [Hemiptera: Aphididae]. Rec'd 16 May 1997. USA: Pennsylvania.
- 5494 M Brownbridge (FREY3). *Aphis gossypii* [Hemiptera: Aphididae]. Rec'd 16 May 1997. USA: Pennsylvania.
- 5665 BL Parker (SPT-002). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 17 Jan 1998. Turkey: Karabykly, Narli, Kahraman Maras.
- 5674 BL Parker (SPT-032). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 25 Jan 1998. Syria: Rmilan, Hassakeh, Azaz, Halab.
- 5705 JL Hatting (PPRI 6688). *Diuraphis noxia* [Hemiptera: Aphididae] on *Triticum aestivum*. 4 Sep 1997. South Africa: Langgewens, Western Cape Province.
- 5725 L Erkiç (Hursit Dagı-1). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 31 Mar 1998. Turkey: Gaziantep, Gaziantep.
- 5753 BL Parker (SPT 001). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 17 Jan 1998. Turkey: Korabiyikli, Narli, Kahraman Maras.
- 5762 BL Parker (SPT 046). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 17 Jan 1998. Turkey: Korabiyikli, Narli, Kahraman Maras.
- 5767 BL Parker (AT 036). *Adelges tsugae* [Hemiptera: Adelgidae]. 9 May 1997. USA: Gillette Castle State Park, Connecticut.
- 5768 BL Parker (AT 050). *Adelges tsugae* [Hemiptera: Adelgidae]. 9 May 1997. USA: Lovingson, Virginia.
- 5769 BL Parker (AT 052). *Adelges tsugae* [Hemiptera: Adelgidae]. 9 May 1997. USA: Lovingson, Virginia.
- 5770 [ERL 101] S Gouli (AT-086) and V Gouli. *Adelges tsugae* [Hemiptera: Adelgidae]. 21 Sep 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 5796 BL Parker (HWA 289/1). *Adelges tsugae* [Hemiptera: Adelgidae]. 27 May 1997. USA: Forest Park, Massachusetts.
- 5808 B Broadbent (BB008). Adult, *Lygus lineolaris* [Hemiptera: Miridae] on *Medicago sativa*. 17 Jun 1998. USA: Ulster County, New York.
- 5978 JL Stimac (UF 5781). [Hemiptera]. Sep 1988. USA: Gainesville, Florida.
- 6008 BL Parker ← V Gouli (SPT-R-134). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 19 Sep 1998. Russian Federation: Volgograd.
- 6009 BL Parker ← V Gouli (SPT-R-145). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6011 BL Parker ← V Gouli (SPT-R-159). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6013 BL Parker ← V Gouli (SPT-R-162). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6014 BL Parker ← V Gouli (SPT-R-170). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6016 [ERL 418] S Gouli and V Gouli (SP-174). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6019 BL Parker ← V Gouli (SPT-R-184). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 18 Sep 1998. Russian Federation: Volgograd.
- 6027 BL Parker (AT-C-216). 2nd instar, *Adelges tsugae* [Hemiptera: Adelgidae]. 29 Oct 1998. PR China: Site 1, Tree Number 14, Sichuan Province.
- 6039 BL Parker ← V Gouli (SPT-R-148). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6040 BL Parker ← V Gouli (SPT-R-152). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6041 BL Parker ← V Gouli (SPT-R-153). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6042 BL Parker ← V Gouli (SPT-R-158). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6056 BL Parker (SPT-U-251). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: Site b, SW of Samarkand, Mirankul region.

- 6060 BL Parker (SPT-U-259). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6065 BL Parker (SPT-U-267). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6066 BL Parker (SPT-U-268). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6067 BL Parker (SPT-U-269). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6069 BL Parker (SPT-U-272). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6070 BL Parker (SPT-U-273). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6072 BL Parker (SPT-U-291). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: Site b, SW of Samarkand, Mirankul region.
- 6073 BL Parker (SPT-U-292). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6076 BL Parker (SPT-U-300). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: Site d, SW of Samarkand, Mirankul region.
- 6079 BL Parker (SPT-U-310). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6083 BL Parker (SPT-U-260). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6086 BL Parker (SPT-2-309/2). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6087 BL Parker (SPT-2-312). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6088 BL Parker (SPT-2-315). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6089 BL Parker (SPT-2-318). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6090 BL Parker (SPT-2-319/2). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6091 BL Parker (SPT-2-321/1). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6093 BL Parker (SPT-U-326). Adult, *Aelia* sp. [Hemiptera: Pentatomidae]. 16 Jan 1999. Uzbekistan: Site c, SW of Samarkand, Mirankul region.
- 6115 BL Parker (SPT-U-349). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: Site b, SW of Samarkand, Mirankul region.
- 6149 BL Parker (SPT-3-372). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 18 Feb 1999. Syria: Al Kseabiia.
- 6404 B Tunali (27). *Dolycorus* sp. [Hemiptera: Pentatomidae]. 4 Oct 1999. Turkey: Adiyaman.
- 6426 B Tunali (28). *Dolycorus* sp. [Hemiptera: Pentatomidae]. 4 Oct 1999. Turkey.
- 6459 [CIAT 044] D Peck. Adult, *Zulia carbonaria* [Hemiptera: Cercopidae]. 4 Aug 1999. Colombia: Santander de Quilichao, Cauca.
- 6660 MR McGuire (2-10). *Lygus hesperus* [Hemiptera: Miridae] on *Medicago sativa* L., alfalfa. 21 Nov 2000. USA: Scofield Avenue, 0.75 mile north of Merced on west side of road, Shafter, California.
- 6661 MR McGuire (5-43). *Lygus hesperus* [Hemiptera: Miridae] on *Medicago sativa* L., alfalfa. 21 Nov 2000. USA: NE corner of Scaroni and Burbank, Shafter, California.
- 6722 JM Sung (KEFC-6240). [Hemiptera: Pentatomidae]. Nov 2000. Republic of Korea: Mt. Hiryang, Jechon.
- 6723 JM Sung (KEFC-6241). [Hemiptera: Coccidae]. 27 Nov 2000. Republic of Korea: Mt. Hiryang, Jechon.
- 6920 K Fry (ARC 4). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Lycopersicon esculentum* Miller, greenhouse tomato crop. 31 Mar 1998. Canada: Gull Lake, Alberta. **RESTRICTED ACCESS: consult Curator.**
- 6921 K Fry (ARC 5). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Lycopersicon esculentum* Miller, greenhouse tomato crop. 31 Mar 1998. Canada: Gull Lake, Alberta. **RESTRICTED ACCESS: consult Curator.**
- 6922 K Fry (ARC 6). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Lycopersicon esculentum* Miller, greenhouse tomato crop. 31 Mar 1998. Canada: Gull Lake, Alberta. **RESTRICTED ACCESS: consult Curator.**
- 6923 K Fry (ARC 7). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Lycopersicon esculentum* Miller, greenhouse tomato crop. 31 Mar 1998. Canada: Gull Lake, Alberta. **RESTRICTED ACCESS: consult Curator.**
- 6924 K Fry (ARC 8). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Lycopersicon esculentum* Miller, greenhouse tomato crop. 31 Mar 1998. Canada: Gull Lake, Alberta. **RESTRICTED ACCESS: consult Curator.**
- 6968 [PPRI 7041] JL Hatting. *Diuraphis noxia* [Hemiptera: Aphididae]. 6 Jun 2000. Hungary: Plant Protection Research Institute, Budapest, Budapest.

- 6969 [PPRI 7042] JL Hatting. *Diuraphis noxia* [Hemiptera: Aphididae]. 14 Jun 2000. Hungary: Plant Protection Research Institute, Budapest, Budapest.
- 6970 [PPRI 7043] JL Hatting. *Rhopalosiphum padi* [Hemiptera: Aphididae]. Rec'd 29 Nov 2001. Hungary: Plant Protection Research Institute, Budapest, Budapest.
- 6978 [PPRI 7061] JL Hatting. *Diuraphis noxia* [Hemiptera: Aphididae]. 17 Aug 2001. South Africa: ARC-Small Grain Institute Greenhouse, Bethlehem, Free State.
- 6979 [PPRI 7062] JL Hatting. *Diuraphis noxia* [Hemiptera: Aphididae]. 17 Aug 2001. South Africa: ARC-Small Grain Institute Greenhouse, Bethlehem, Free State.
- 6980 [PPRI 7064] JL Hatting. *Diuraphis noxia* [Hemiptera: Aphididae]. 17 Aug 2001. South Africa: ARC-Small Grain Institute Greenhouse, Bethlehem, Free State.
- 6982 [PPRI 7068] JL Hatting. *Molopopterus theae* [Hemiptera: Cicadellidae]. 4 Aug 1999. South Africa: Location co-ordinates S 32°00'30.4", E 18°55'15.6", Clanwilliam, Cape Province.
- 7147 C López Lastra. Adult, *Triatoma infestans* [Hemiptera: Reduviidae]. 13 Aug 2002. Argentina: Deán Funes, Córdoba.
- 7240 JM Sung (EFCC 1109). *Acanthosoma labiduroides* [Hemiptera: Pentatomidae]. 28 Jun 1997. Republic of Korea: Mt. Gyaeryong, Chungnam Province.
- 7246 JM Sung (EFCC 1929). *Acanthosoma labiduroides* [Hemiptera: Pentatomidae]. 4 Oct 1997. Republic of Korea: Samag Mt., Kangwon-do.
- 7256 JM Sung (EFCC 2468). [Hemiptera: Cicadidae]. 22 Aug 1998. Japan.
- 7258 JM Sung (EFCC 2480). [Hemiptera: Cicadidae]. 22 Aug 1998. Japan.
- 7273 JM Sung (EFCC 7270). *Acanthosoma labiduroides* [Hemiptera: Pentatomidae]. 8 Jul 2001. Nepal.
- 7464 [CEP 072] C López Lastra. *Balacha melanocephala* [Hemiptera: Cicadellidae] on *Eryngium* sp. (Apiaceae). 11 Sep 2003. Argentina: Colonia Urquiza, La Plata, Buenos Aires.
- 7465 [CEP 074] C López Lastra. *Balacha melanocephala* [Hemiptera: Cicadellidae] on *Eryngium* sp. (Apiaceae). 30 Dec 2003. Argentina: Berazategui, Buenos Aires.
- 7467 [CEP 077] C López Lastra. *Balacha melanocephala* [Hemiptera: Cicadellidae] on *Eryngium* sp. (Apiaceae). 24 Feb 2004. Argentina: Los Hornos, Buenos Aires.
- 7468 [CEP 080] C López Lastra. *Kronides* sp. [Hemiptera: Membracidae] on *Eryngium* sp. (Apiaceae). 20 Mar 2004. Argentina: San Vicente, Buenos Aires.
- 7469 [CEP 081] C López Lastra. *Balacha melanocephala* [Hemiptera: Cicadellidae] on *Eryngium* sp. (Apiaceae). 20 Mar 2004. Argentina: San Vicente, Buenos Aires.
- 7583 [SRCAMB VL-36] V Likhovidov. [Hemiptera]. Sep 2001. Russian Federation: Caucasus region, Krasnaya Polyana, Krasnodarsky Krai. Field Collection Number F-237.
- 7590 [SRCAMB B-174] V Likhovidov ← BA Borisov. [Hemiptera: Cicadellidae]. 20 Jul 2002. Russian Federation: Kunashir Island, Sakhalin Region. Field Collection Number F-298.
- 7592 [SRCAMB B-205] V Likhovidov (Vg-19 (3ts)) ← BA Borisov. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Oct 1991. Vietnam: environs, Ho Chi Minh City. Field Collection Number F-64.
- 7776 [CEP 189] C López Lastra ← A Toledo. Adult, male, *Oliarus dimidiatus* [Hemiptera: Cixiidae] on *Oryza sativa* L., rice crop. 9 Mar 2005. Argentina: Estación experimental Julio Hirschhorn, Los Hornos, Buenos Aires.
- 7984 [ARSEF 8638; CENARGEN CG 883] *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 29 Mar 2006. Brazil: Itiquira, Mato Grosso. **RESTRICTED ACCESS: consult Curator.**
- 8025 NV Meyling (KVL 03-72). *Liocoris tripustulatus* [Hemiptera: Miridae] from *Urtica dioica* L., stinging nettle habitat type. 25 Jun 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8026 NV Meyling (KVL 03-81). *Stenodema laevigatum* [Hemiptera: Miridae] from unspecified grass *Poaceae* habitat type. 19 Sep 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8027 NV Meyling (KVL 03-85). *Scolopostethus affinis* [Hemiptera: Lygaeidae] from *Urtica dioica* L., stinging nettle habitat type. 31 Jul 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8028 NV Meyling (KVL 03-90). *Anthocoris nemorum* [Hemiptera: Anthocoridae] from *Urtica dioica* L., stinging nettle habitat type. 25 Jun 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8029 NV Meyling (KVL 03-94). *Notostira elongata* [Hemiptera: Miridae] from unspecified grass *Poaceae* habitat type. 19 Sep 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8030 NV Meyling (KVL 03-118). *Notostira elongata* [Hemiptera: Miridae] from unspecified grass *Poaceae* habitat type. 19 Sep 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8036 NV Meyling (KVL 03-148). *Leptopterna dolabrata* [Hemiptera: Miridae] from unspecified grass *Poaceae* habitat type. 10 Jul 2003. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8317 N Hudson (NI8). *Lygus lineolaris* [Hemiptera: Miridae] on pigweed. 29 Jul 2002. USA: Washington County, Mississippi. **RESTRICTED ACCESS: consult Curator.**

- 8318 N Hudson (SfBb1). *Spissistilus festinus* [Hemiptera: Membracidae] on *Medicago sativa* L., alfalfa. 12 Jul 2004. USA: Fresno County, California.
- 8370 [CEP 137; LPSC 891] AV Toledo. Adult, *Balacha melanocephala* [Hemiptera: Cicadellidae] on *Eryngium* sp. (Apiaceae). 21 Jul 2004. Argentina: Berazategui, Buenos Aires.
- 8371 [CEP 142; LPSC 894] AV Toledo. Adult, *Pawiloma victima* [Hemiptera: Cicadellidae] on *Eryngium* sp. (Apiaceae). 25 Aug 2004. Argentina: Berazategui, Buenos Aires.
- 8459 [CEP 069; LPSC 883] AV Toledo. Adult, *Balacha melanocephala* [Hemiptera: Cicadellidae] on *Eryngium* sp. (Apiaceae). 11 Mar 2004. Argentina: Colonia Urquiza, La Plata, Buenos Aires.
- 8460 [CEP 111] AV Toledo. Adult, *Balacha melanocephala* [Hemiptera: Cicadellidae] on *Eryngium* sp. (Apiaceae). 20 Apr 2004. Argentina: Berazategui, Buenos Aires.
- 8528 [CEP 139; LPSC 892] AV Toledo. Adult, *Balacha melanocephala* [Hemiptera: Cicadellidae] on *Eryngium* sp. (Apiaceae). 18 Aug 2004. Argentina: La Plata, Buenos Aires.
- 8529 [CEP 140; LPSC 893] AV Toledo. Adult, *Balacha melanocephala* [Hemiptera: Cicadellidae] on *Eryngium* sp. (Apiaceae). 18 Aug 2004. Argentina: La Plata, Buenos Aires.
- 8637 [CENARGEN CG 882] *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 18 Sep 2007. Brazil: Itiquira, Mato Grosso. **RESTRICTED ACCESS: consult Curator.**
- 8638 [ARSEF 7984; CENARGEN CG 883] *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 18 Sep 2007. Brazil: Itiquira, Mato Grosso. **RESTRICTED ACCESS: consult Curator.**
- 8706 RG Hollingsworth (H3). [Hemiptera: Lygaeidae]. 9 Jan 2007. USA: Kalopa Native Forest State Park, Kalopa, Hawaii.
- 8710 RG Hollingsworth (H9). [Hemiptera: Cicadellidae]. 8 Mar 2007. USA: Bird Park, Hawai'i Volcanoes National Park, Hawaii.
- 8711 RG Hollingsworth (H10). [Hemiptera: Cicadellidae]. Mar 2007. USA: Kalopa Native Forest State Park, Kalopa, Hawaii.
- 8889 TA Ugine (NI8) or (TPB3). *Lygus lineolaris* [Hemiptera: Miridae] on *Conyza canadensis* (L.) Cronquist, Canadian horseweed. Jul 2002. USA: Washington County, Mississippi.
- 8932 [ERL 499] S Gouli and BL Parker (SP-403). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2000. Kyrgyz Republic.
- 9443 [SRCAMB B-175] V Likhovidov ← BA Borisov. [Hemiptera: Cicadellidae]. 20 Jul 2002. Russian Federation: Kunashir Island, Sakhalin Region. Field Collection Number F-297.
- 9451 [SRCAMB VL-2049] V Likhovidov. *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae]. Jun 2006. Kazakhstan: Almaty. Field Collection Number F-1066.
- 9587 [ERL 1744] S Gouli (CA-603/Thr.-09) and V Gouli. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. 2009. USA: California. Re-isolation of ARSEF 7060 (CA-603) from infected western flower thrips.
- 9588 [ERL 1745] S Gouli (GHA/WFT.09) and V Gouli. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. 2009.
- 9927 [ERL 1771] S Gouli and V Gouli (Thr.-09-3). [Thysanoptera: Thripidae]. 2010. USA: Vermont.
- 10138 [ERL 1798] S Gouli (Thr.-10-1) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Debry, Vermont.
- 10139 [ERL 1799] S Gouli and V Gouli (Thr.-10-2). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10140 [ERL 1800] S Gouli (Thr.-10-3) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Rupert, Vermont.
- 10143 [ERL 1803] S Gouli and V Gouli (Thr.-10-6). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Westfield, Vermont.
- 10144 [ERL 1804] S Gouli (Thr.-10-7) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10145 [ERL 1805] S Gouli and V Gouli (Thr.-10-8). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10147 [ERL 1807] S Gouli and V Gouli (Thr.-10-10). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Debry, Vermont.
- 10148 [ERL 1808] S Gouli (Thr.-10-11) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10348 [ERL 189] CJ Lomer (SP-127). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 1998. Turkey.
- 10349 [ERL 190] CJ Lomer (SP-128). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 1998. Turkey.
- 10351 [ERL 487] BL Parker (SP-379) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 1998. Republic of Kazakhstan.
- 10352 [ERL 533] BL Parker (SP-464) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2000. Kyrgyz Republic.
- 10353 [ERL 536] BL Parker (SP-482) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10354 [ERL 537] BL Parker and M Skinner (SP-483). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10355 [ERL 538] BL Parker (SP-493) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.

- 10356 [ERL 539] BL Parker and M Skinner (SP-500). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10357 [ERL 543] BL Parker (SP-504) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10358 [ERL 553] BL Parker and M Skinner (SP-554). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10359 [ERL 557] BL Parker (SP-566) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10360 [ERL 558] BL Parker and M Skinner (SP-567). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10361 [ERL 563] BL Parker (SP-582) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10362 [ERL 566] BL Parker and M Skinner (SP-585). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 11618 [ERL 516] BL Parker (SP-429) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2000. Kazakhstan.
- 11619 [ERL 519] BL Parker (SP-433) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2000. Kazakhstan.
- 11620 [ERL 567] BL Parker (SP-590) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 11712 T Wen (LG-11-35). Larva, [Hemiptera: Cicadidae]. 2011. PR China: Leigong Mountain, Guizhou Province.
- 11841 [ERL 2022] S Gouli (THR-11-14) and V Gouli. [Thysanoptera: Thripidae]. 2011. USA: Richford, Vermont.
- 11846 [ERL 2027] S Gouli and V Gouli (THR-11-17). [Thysanoptera: Thripidae]. 2011. USA: Debray, Vermont.
- 11847 [ERL 2028] S Gouli (THR-11-18) and V Gouli. [Thysanoptera: Thripidae]. 2011. USA: Underhill, Vermont.
- 11848 [ERL 2029] S Gouli and V Gouli (THR-11-19). [Thysanoptera: Thripidae]. 2011. USA: Altona, New York.
- Beauveria bassiana*(?)** (Balsamo-Crivelli) Vuillemin
[Sordariomycetes: Hypocreales]
Cordycipitaceae
- 5684 BL Parker (SPT-084). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 19 Jan 1998. Turkey: Belen, Gaziantep.
- 5815 BL Parker (HWA 242/2). *Adelges tsugae* [Hemiptera: Adelgidae]. Rec'd 13 Jul 1998.
- 5816 BL Parker (AT 062). *Adelges tsugae* [Hemiptera: Adelgidae]. 10 May 1997. USA: Guilford, Connecticut.
- 5817 BL Parker (AT 063). *Adelges tsugae* [Hemiptera: Adelgidae]. 10 May 1997. USA: Guilford, Connecticut.
- 5818 BL Parker (AT 069). *Adelges tsugae* [Hemiptera: Adelgidae]. 10 May 1997. USA: Guilford, Connecticut.
- 6608 JL Hatting. *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 27 Sep 2000. Hungary: greenhouse, Budapest, Budapest.
- Beauveria brongniartii*** (Saccardo) Petch
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Beauveria tenella* (Saccardo) MacLeod.
- 678 DW Roberts (101481-4-1). *Nephotettix bipunctata cincticeps* [Hemiptera: Cicadellidae]. 14 Oct 1981. PR China: Hunan.
- 6023 BL Parker ← V Gouli (SPT-R-201). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 7376 DM Gibson. Adult, *Magicicada septendecim* [Hemiptera: Cicadidae]. 9 Jun 2004. USA: ARS National Visitor Center, Beltsville, Maryland. Identification verified genomically.
- Beauveria kipukae*** SA Rehner & Humber
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Defined primarily by genotypic characters
- 7032 RG Hollingsworth (KNF2002-1). [Hemiptera: Delphacidae]. 26 Jan 2002. USA: Bird Park, Volcano, Hawaii. EX-TYPE ISOLATE; species defined by genomic characters.
- Beauveria pseudobassiana*** SA Rehner & Humber
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Defined primarily by genotypic characters
- 3121 G Mercadier and TJ Poprawski (8852). [Hemiptera: Aphididae] on *Urtica* sp. 10 Jun 1988. France: Garancières, Yvelines.
- 3153 G Mercadier and TJ Poprawski (8809A). *Diuraphis noxia* [Hemiptera: Aphididae] on barley. 14 Jun 1988. Turkey: Beypazari, Ankara.
- 3216 LK Rieske. *Thrips calcaratus* [Thysanoptera: Thripidae]. Summer 1991. USA: Rusk County, Wisconsin. Identification verified genomically.
- 5724 L Erkiliç (Pazarcik/Karabiyikli-1). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 29 Mar 1998. Turkey: Pazarcik, Kahraman Maras.
- 6015 BL Parker ← V Gouli (SPT-R-171). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.

6022 BL Parker ← V Gouli (SPT-R-200). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.

6043 BL Parker ← V Gouli (SPT-R-161). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.

Calcarisporium ovalisporum (Petch) de Hoog
 [Hyphomycetes]

Isolated as a mycoparasite from *Hirsutella citriformis*.
 This fungus is not itself pathogenic for insects.

1907 MC Rombach (2). *Nilaparvata lugens* [Hemiptera: Delphacidae] on rice. Apr 1985. Solomon Islands: nr. Metapona, Guadalcanal.

***Cladosporium* sp.** Mycosphaerellaceae
 [Dothideomycetes: Capnodiales]

3706 LA Lacey (052A). Adult, [Hemiptera: Aleyrodidae]. 21 Mar 1992. Nepal: Katmandu.

4795 M Hoffman. *Brevicoryne brassicae* [Hemiptera: Aphididae] *Brassica* sp. 10 Jul 1994. USA: Geneva, New York.

7035 RG Hollingsworth (KNF2002-5). [Hemiptera: Coccidae]. 26 Jan 2002. USA: Bird Park, Volcano, Hawaii.

7039 RG Hollingsworth (KNF2002-9). [Hemiptera: Cicadellidae]. 26 Jan 2002. USA: Bird Park, Volcano, Hawaii.

11866 JL Hatting (10193). *Rhopalosiphum padi* [Hemiptera: Aphididae] on *Zea mays* L., field maize. Mar 2009. South Africa: ARC - Small Grain Institute, Bethlehem, Free State.

Cladosporium cladosporioides (Fresenius) de Vries
 [Dothideomycetes: Capnodiales]
 Mycosphaerellaceae

3375 [Puerto Rico 04-91] F Gallardo ← G Mejía. Adult, nymphs & pupa, *Thrips palmi* [Thysanoptera: Thripidae] on eggplant, *Solanum melongena*. Jun 1991. USA: Río Piedras, Puerto Rico.

3463 D Wilson ← T Whitham. Gall, *Pemphigus betae* [Hemiptera: Aphididae] on narrowleaf cottonwood, *Populus angustifolia*. Rec'd 5 Nov 1991. USA: Arizona. Contains *Verticillium ?lecanii* as mycoparasite.

9614 JG Banu (4). *Phenacoccus solenopsis* [Hemiptera: Pseudococcidae]. Aug 2008. India: Coimbatore, Tamil Nadu.

***Cladosporium cladosporioides*(?)** (Fresenius) de Vries
 [Dothideomycetes: Dothideales]
 Mycosphaerellaceae

7033 RG Hollingsworth (KNF2002-3). [Hemiptera: Aphididae]. 26 Jan 2002. USA: Hilo, Hawaii.

Cladosporium herbarum (Persoon) Link
 [Dothideomycetes: Capnodiales]
 Mycosphaerellaceae

4361 DW Roberts ← CF Robbs. *Aphis gossypii* [Hemiptera: Aphididae] Citrus. Jan 1994. Brazil: Itaguaí, Rio de Janeiro.

Clonostachys rosea (Link : Fries) Schroers, Samuels, Seifert & W Gams
 [Sordariomycetes: Hypocreales]
 Bionectriaceae

7200 [CBS 115882; CEP 050] C López Lastra. Adult, female, *Oncometopia tucumana* [Hemiptera: Cicadellidae] on *Lantana camara* L. 28 Mar 2003. Argentina: Horco Molle, Tucumán.

7472 [CBS 115883; CEP 066] C López Lastra. *Sonesimia grossa* [Hemiptera: Cicadellidae] on *Eryngium* sp. (Apiaceae). 27 Sep 2003. Argentina: Parque Nacional El Palmar, Colón, Entre Ríos.

***Colletotrichum* sp.**
 [Sordariomycetes]
 Glomerellaceae

10308 [ERL 1953] S Gouli (SM-10-1) and V Gouli. *Neolecanium cornuparvum* [Hemiptera: Coccidae]. 2010. USA: Burlington, Vermont.

12083 [ERL 2170] S Gouli and V Gouli (PS-12/32). Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Betula populifolia* Marshall, gray birch. Sep 2012. USA: Richmond, Rhode Island.

Colletotrichum fioriniae (Marcelino & Gouli) R.G. Shivas & Y.P. Tan
 [Sordariomycetes]
 Glomerellaceae

10219 [ERL 1204] S Gouli (EHS-41) and V Gouli. *Fiorinia externa* [Hemiptera: Diaspididae]. 2005. USA: Mohonk Preserve, Ulster County, New York.

10220 [ERL 1211] S Gouli (EHS-48) and J Marcelino. *Fiorinia externa* [Hemiptera: Diaspididae]. 2005. USA: Bayberry Lane, Westchester County, New York.

10221 [ERL 1214] S Gouli and V Gouli (EHS-51). *Fiorinia externa* [Hemiptera: Diaspididae]. 2005. USA: Hemlock Ridge State Forest, Esopus, New York.

10222 [CBS 128517; ERL 1257] S Gouli (EHS-58) and V Gouli. *Fiorinia externa* [Hemiptera: Diaspididae]. 2005. USA: Ward Pound Ridge Reservation, Westchester County, New York. CULTURE EX TYPE.

10223 [ERL 1260] S Gouli and V Gouli (EHS-61). *Fiorinia externa* [Hemiptera: Diaspididae]. 2005. USA: Ward Pound Ridge Reservation, Westchester County, New York.

Colletotrichum gloeosporioides (Penz.) Penz. & Sacc.
[Sordariomycetes]
Glomerellaceae

- 4360 DW Roberts ← CF Robbs. *Orthezia praelonga* [Hemiptera: Ortheziidae] on *Nicotiana tabacum* L., tobacco. Feb 1994. Brazil: Rio de Janeiro, Rio de Janeiro.

Conidiobolus sp.

[Entomophthoromycotina: Entomophthorales]

Ancylistaceae. These strains include a heterogeneous assortment of fungi isolated as saprobes and as zoopathogens. Some may represent undescribed new species. Identifications of *Conidiobolus* species are made difficult by the relative lack of taxonomic characters and of any modern taxonomic attention.

Caution: Strains derived from mammalian mycoses should be treated as potentially hazardous; observe handling precautions noted for *Conidiobolus coronatus*.

- 211 DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 27 Mar 1978. India: insectary, Hyderabad, Andhra Pradesh.
- 391 S Keller (21). [Hemiptera: Cercopidae]. Rec'd 18 Oct 1979. Switzerland.
- 517 DW Roberts (82380-19). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 23 Aug 1980. Malaysia: Bumbong Lima, Icpala Batas, Wellesley Province.
- 522 DW Roberts (82180-7b). *Nilaparvata lugens* [Hemiptera: Delphacidae] on leaves. 21 Aug 1980. Malaysia.
- 564 RS Soper (8133-1/BPH-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 3 Mar 1981. Indonesia: insect rearings, Maros Research Center, Maros, Sulawesi Selatan, Celebes.
- 595 RS Soper (81227-2). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 27 Feb 1981. Indonesia: Bantul District, Yogyakarta, Java.
- 596 RS Soper (81226-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 26 Feb 1981. Indonesia: Bantul District, Yogyakarta, Java.
- 604 RS Soper (8133-2). *Sogatella furcifera* [Hemiptera: Delphacidae]. 3 Mar 1981. Indonesia: Pangkep Kaba, Sulawesi Selatan, Celebes.
- 605 RS Soper (8133-1). *Nephotettix bipunctata cincticeps* [Hemiptera: Cicadellidae]. 3 Mar 1981. Indonesia: insect rearings, Maros Research Center, Maros, Sulawesi Selatan, Celebes.
- 606 RS Soper (8133-1). *Nephotettix bipunctata cincticeps* [Hemiptera: Cicadellidae]. 3 Mar 1981. Indonesia: insect rearings, Maros Research Center, Maros, Sulawesi Selatan, Celebes.
- 999 J Aoki (Ent. 45) ← T Kobayashi. [Hemiptera: Aphididae]. Jun 1981. Japan: Fuchu, Tokyo Prefecture.
- 1426 RS Soper (8465-1). [Hemiptera: Aphididae] on rose. 6 May 1984. Yugoslavia: Plant Protection Institute, Belgrade.
- 1967 T Burger. *Schizaphis graminum* [Hemiptera: Aphididae]. Aug 1985. USA: laboratory colony, APHIS-PPQ, Niles, Michigan.
- 2130 IL Sivcev (160/85). *Brevicoryne brassicae* [Hemiptera: Aphididae] on cabbage. 2 Oct 1985. Yugoslavia: Zemun, Belgrade.
- 2147 MA Naves. *Deois* sp. [Hemiptera: Cercopidae]. 4 Mar 1986. Brazil: Mato Grosso.
- 2148 MA Naves. *Deois flavopicta* [Hemiptera: Cercopidae]. 21 Mar 1986. Brazil: Mato Grosso.
- 3383 I Majchrowicz (18). *Aphis fabae* [Hemiptera: Aphididae] on bean. 27 Jun 1991. USA: Grandpa's garden, Granger, Washington.
- 3384 I Majchrowicz (25-b). *Myzus persicae* [Hemiptera: Aphididae] on potato. 11 Jul 1991. USA: Orchard Farm, Yakima, Washington.
- 5404 BL Parker (GA-113). *Gargara* sp. [Hemiptera: Membracidae] on wild cereal. Jun 1996. USA: Burlington, Vermont.
- 5405 BL Parker (GA-169). *Gargara* sp. [Hemiptera: Membracidae] on wild cereal. 17 Aug 1996. Canada: Philipsburg, Québec.
- 5406 BL Parker (GA-169A). *Gargara* sp. [Hemiptera: Membracidae] on wild cereal. 17 Aug 1996. Canada: Philipsburg, Québec.
- 6659 JL Hatting. *Eriosoma lanigerum* [Hemiptera: Aphididae] feeding underground on apple tree roots. 24 Jul 2000. South Africa: Oak Valley, Western Cape, Cape Province.
- 7786 [CEP 184] C López Lastra ← A Toledo. Adult, male, *Oliarus dimidiatus* [Hemiptera: Cixiidae] on *Oryza sativa* L., rice crop. 28 Mar 2005. Argentina: Estación experimental Julio Hirschhorn, Los Hornos, Buenos Aires.
- 11650 [ERL 1788/1c] S Gouli and V Gouli (HWA-G-50/c). *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: New Hampshire.

Conidiobolus coronatus (Costantin) Batko

[Entomophthoromycotina: Entomophthorales]

Ancylistaceae. Major synonyms: *Entomophthora coronata* (Costantin) Kevorkian, *Conidiobolus villosus* Martin.

Caution: This species is known to cause human mycoses that are primarily tropical in occurrence and confined to the nasal passages and adjacent superficial areas. Avoid inhalation of conidia and do not handle cultures without gloves if unhealed cuts or abrasions are present. This species has low pathogenicity for mammals and should be relatively safe if handled with good microbiological technique.

- 349 RS Soper. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 16 Feb 1979. Australia: Cairns, Queensland.

- 405 DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1979. Philippines: IRRI greenhouse, Lecheria, Calamba, Laguna.
 - 406 DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1979. Philippines: IRRI greenhouse, Parian, Calamba, Laguna.
 - 418 DW Roberts (A). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1979. Philippines: IRRI greenhouse, Lecheria, Calamba, Laguna.
 - 419 DW Roberts (B). [Hemiptera: Cicadellidae]. Nov 1979. Philippines: IRRI greenhouse, Lecheria, Calamba, Laguna.
 - 421 DW Roberts (E). [Hemiptera: Cicadellidae]. Nov 1979. Philippines: IRRI greenhouse, Parian, Calamba, Laguna.
 - 422 DW Roberts (F). [Hemiptera: Cicadellidae]. Nov 1979. Philippines: IRRI greenhouse, Lecheria, Calamba, Laguna.
 - 511 DW Roberts (81380-4). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 13 Aug 1980. Philippines: IRRI, Los Baños, Manila.
 - 512 DW Roberts (82180-4a). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 21 Aug 1980. Malaysia.
 - 514 DW Roberts (82180-7c). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 21 Aug 1980. Malaysia.
 - 520 DW Roberts (82380-20). *Nephotettix bipunctata cincticeps* [Hemiptera: Cicadellidae]. 23 Aug 1980. Malaysia: cages, Bumbong Lima, Icepala Batas, Wellesley Province.
 - 523 DW Roberts (82380-22). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 23 Aug 1980. Malaysia: cages, Bumbong Lima, Icepala Batas, Wellesley Province.
 - 524 DW Roberts (82180-4c). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 21 Aug 1980. Malaysia.
 - 525 DW Roberts (82880-11). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 28 Aug 1980. Thailand: rearing cage, Chainat Rice Exp. Sta., N of Bangkok, Khlong Luang.
 - 528 DW Roberts (82980-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 28 Aug 1980. Thailand: NBRC cages.
 - 563 RS Soper (8133-1/BPH-2). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 3 Mar 1981. Indonesia: insect rearings, Maros Research Center, Maros, Sulawesi Selatan, Celebes.
 - 565 RS Soper (8133-1/BPH-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 3 Mar 1981. Indonesia: insect rearings, Maros Research Center, Maros, Sulawesi Selatan, Celebes.
 - 597 RS Soper (8133-1). *Nephotettix bipunctata cincticeps* [Hemiptera: Cicadellidae]. 3 Mar 1981. Indonesia: insect rearings, Maros Research Center, Maros, Sulawesi Selatan, Celebes.
 - 655 DW Roberts (102381-6). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 23 Oct 1981. PR China: Guanzhou, Kwon Tung.
 - 997 J Aoki (Ent. 11) ← M Shimazu. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Jul 1976. Japan: Chikugo, Fukuoka Prefecture.
 - 1738 [ARSEF 96 (lost)] N Wilding (32) ← C Dedryver. *Acyrtosiphon pisum* [Hemiptera: Aphididae]. 3 Sep 1984. United Kingdom: laboratory colony, Rothamsted Experimental Station, Hertfordshire, England.
 - 1876 DG Holdom (2). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 8 Mar 1985. Indonesia: Cikampek, Jawa Barat, Java.
 - 2812 MG Feng (MD8904). *Metopolophium dirhodum* [Hemiptera: Aphididae] on spring wheat. 21 Jul 1989. USA: Parma, Idaho.
 - 2813 MG Feng (MD8905). *Metopolophium dirhodum* [Hemiptera: Aphididae] on spring wheat. 21 Jul 1989. USA: Parma, Idaho.
 - 2814 MG Feng (MD8906). *Metopolophium dirhodum* [Hemiptera: Aphididae] on spring wheat. 21 Jul 1989. USA: Parma, Idaho.
 - 3099 M Wheeler. *Empoasca fabae* [Hemiptera: Cicadellidae]. 20 Sep 1990. USA: Hoffman field # 4B, Catherine, New York.
 - 3109 M Wheeler. *Empoasca fabae* [Hemiptera: Cicadellidae]. 25 Sep 1990. USA: Hoffman field # 4E, Catherine, New York.
 - 3222 LS Osborne. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. Rec'd 14 Mar 1991. USA: greenhouse, IFAS, Univ. of Florida, Apopka, Florida.
 - 6512 S Gouli and V Gouli (GA-361). [Thysanoptera: Thripidae] on *Tagetes erecta* L., marigold. 3 Oct 1999. USA: Burlington, Vermont.
 - 7203 [CEP 062] C López Lastra. *Delphacodes haywardii* [Hemiptera: Delphacidae] reared on *Hordeum vulgare* L., barley. 19 Aug 2003. Argentina: greenhouse at CEPAVE, La Plata, Buenos Aires.
 - 9914 [ERL 1747] S Gouli and V Gouli (Thr.-09-2). [Thysanoptera: Thripidae]. 2010. USA: Vermont.
- Conidiobolus lachnodes*** Drechsler
[Zygomycetes: Entomophthoromycotin]
Ancylistaceae
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- 700 DW Roberts (102381-2). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 23 Oct 1981. PR China: Guanzhou, Kwon Tung.
- Conidiobolus* nr. *coronatus*** (Costantin) Batko
[Entomophthoromycotina: Entomophthorales]
Ancylistaceae. These strains produce secondary microconidia; their morphologies match the description of *C. coronatus* in every way except that no villose conidia have been observed. Positive identification as *C. coronatus* requires observation of villose conidia.
- Caution:** All precautions about handling *C. coronatus* should be observed with these strains.
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- 598 RS Soper (8135). *Nilaparvata lugens* [Hemiptera:

- Delphacidae]. 5 Mar 1981. Indonesia: greenhouse, Bogor, Jawa Barat, Java.
- 599 RS Soper (81227-4). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 27 Feb 1981. Indonesia: Ngaglik Village, Sleman District, Yogyakarta, Java.
- 600 RS Soper (81227-3). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 27 Feb 1981. Indonesia: Pendo Wo Har Djo, Sleman District, Yogyakarta, Java.
- 602 RS Soper (8133-2). *Sogatella furcifera* [Hemiptera: Delphacidae]. 3 Mar 1981. Indonesia: Pangkep Kaba, Sulawesi Selatan, Celebes.
- 1742 DW Roberts (26102a) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 26 Oct 1984. India: greenhouse, All India Coop. Rice Inv. Project, Hyderabad, Andhra Pradesh.
- 1743 DW Roberts (26104) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 26 Oct 1984. India: greenhouse, All India Coop. Rice Inv. Project, Hyderabad, Andhra Pradesh.
- Conidiobolus obscurus*** (Hall & Dunn) Remaudière & S Keller
[Entomophthoromycotina: Entomophthorales]
Ancylistaceae. Major synonym: *Entomophthora thaxteriana*
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- 74 RG Kenneth (3043) ← ATCC (24418) and CBS (182.60) ← I Hall. *Therioaphis maculata* [Hemiptera: Aphididae] on *Medicago sativa*. Dec 1954. USA: Lakeview, California. Culture presumably EX TYPE.
- 97 [CSIRO EM529] N Wilding (6) ← C Dedryver. *Metopolophium dirhodum* [Hemiptera: Aphididae]. Acc'd 20 Nov 1978. France: nr. Rennes, Le Rheu, Ille-et-Vilaine.
- 121 [IPLB 20] JP Latgé and G Remaudière. *Uroleucon* sp. [Hemiptera: Aphididae] on *Solidago* sp. [Asteraceae]. 25 Aug 1976. Canada: Chute aux Galets, Québec.
- 122 [IPLB 21] JP Latgé and G Remaudière. *Uroleucon* sp. [Hemiptera: Aphididae] on *Solidago* sp. [Asteraceae]. 25 Aug 1976. Canada: Chute aux Galets, Québec.
- 124 [IPLB 54] JP Latgé and G Remaudière. *Aphis* sp. [Hemiptera: Aphididae] on *Cornus* sp. [Cornaceae]. 26 Aug 1976. Canada: Saint-Gédéon, Québec.
- 133 [ARSEF 355; CSIRO EM543; IPLB 542] G Remaudière ← JP Latgé. *Aphis armata* [Hemiptera: Aphididae] on *Digitalis purpurea*. 26 Jul 1974. France: Le Rosskopf, Moselle.
- 182 FR Holbrook. *Macrosiphum euphorbiae* [Hemiptera: Aphididae]. 10 Aug 1977. USA: Maine.
- 243 I Majchrowicz. [Hemiptera: ?Aphididae]. Rec'd 6 Sep 1978. Poland: Szczecin.
- 354 [ARSEF 824; CSIRO EM535] RJ Milner. *Acyrtosiphon kondoi* [Hemiptera: Aphididae]. May 1978. Australia: Glen Innes, New South Wales.
- 355 [ARSEF 133; IPLB 542] CSIRO (EM543) ← JP Latgé. *Aphis armata* [Hemiptera: Aphididae] on *Digitalis purpurea*. 26 Jul 1974. France: Le Rosskopf, Moselle.
- 434 [FPMI 667] JP Latgé ← IPLB (542 (=ARSEFs 133 & 355)) or (722). [Hemiptera: Aphididae]. Rec'd 7 Mar 1980. France.
- 824 [ARSEF 354; CSIRO EM535] RJ Milner. *Acyrtosiphon kondoi* [Hemiptera: Aphididae]. May 1978. Australia: Glen Innes, New South Wales.
- 832 CSIRO (EM566) ← PJ Cameron. *Acyrtosiphon pisum* [Hemiptera: Aphididae]. 25 May 1979. Laboratory manipulation.
- 834 CSIRO (EM591) ← D Crawford. *Acyrtosiphon pisum* [Hemiptera: Aphididae] on lucerne. 25 Jun 1980. Australia: Riverina Agricultural College, Wagga Wagga, New South Wales.
- 1131 [J Aoki Ent. 9; ARSEF 995 (deaccessioned)] M Shimazu (F-25). *Rhopalosiphum padi* [Hemiptera: Aphididae]. Apr 1976. Japan: Chikugo, Fukuoka Prefecture.
- 1741 N Wilding (90). *Acyrtosiphon pisum* [Hemiptera: Aphididae]. Jan 1979. Laboratory manipulation.
- 3089 MG Feng (MTRM9002). *Rhopalosiphum maidis* [Hemiptera: Aphididae] on late-sown spring grain crop. 31 Jul 1990. USA: Bozeman, Montana.
- 3090 MG Feng (MTRM9003). *Rhopalosiphum maidis* [Hemiptera: Aphididae] on late-sown spring grain crop. 31 Jul 1990. USA: Bozeman, Montana.
- 3092 MG Feng (MTMD9002). *Metopolophium dirhodum* [Hemiptera: Aphididae] on late-sown spring grain crop. 17 Aug 1990. USA: Bozeman, Montana.
- 3132 K Hural (GF-4). *Acyrtosiphon pisum* [Hemiptera: Aphididae] on alfalfa. Oct 1990. USA: Game Farm Rd., Ithaca, New York.
- 3133 K Hural (GF-5). *Acyrtosiphon pisum* [Hemiptera: Aphididae] on alfalfa. Oct 1990. USA: Game Farm Rd., Ithaca, New York.
- 3134 K Hural (GF-6). *Acyrtosiphon pisum* [Hemiptera: Aphididae] on alfalfa. Oct 1990. USA: Game Farm Rd., Ithaca, New York.
- 3135 K Hural (GF-7). *Acyrtosiphon pisum* [Hemiptera: Aphididae] on alfalfa. Oct 1990. USA: Game Farm Rd., Ithaca, New York.
- 3137 K Hural (Hoff-2). *Acyrtosiphon pisum* [Hemiptera: Aphididae] on alfalfa. 16 Oct 1990. USA: Hoffman field, Catherine, New York.
- 3138 K Hural (Hoff-3). *Acyrtosiphon pisum* [Hemiptera: Aphididae] on alfalfa. 16 Oct 1990. USA: Hoffman field, Catherine, New York.
- 3139 K Hural (Hoff-4). *Acyrtosiphon pisum* [Hemiptera: Aphididae] on alfalfa. 16 Oct 1990. USA: Hoffman field, Catherine, New York.
- 3141 K Hural (Hoff-6). *Acyrtosiphon pisum* [Hemiptera: Aphididae] on alfalfa. 16 Oct 1990. USA: Hoffman field, Catherine, New York.

5992 C Nielsen (KVL 98-13). Alate, *Rhopalosiphum padi* [Hemiptera: Aphididae] on *Prunus padus*. 25 Sep 1998. Denmark: Copenhagen, Zealand.

***Conidiobolus osmodes*(?) Drechsler**
 [Entomophthoromycotina: Entomophthorales]
 Ancylistaceae

5993 C Nielsen (KVL 98-15). Alate, *Rhopalosiphum padi* [Hemiptera: Aphididae] on *Prunus padus*. 25 Sep 1998. Denmark: Copenhagen, Zealand.

***Conidiobolus thromboides* Drechsler**
 [Entomophthoromycotina: Entomophthorales]
 Ancylistaceae. Major synonyms: *Entomophthora virulenta* Hall & Dunn, *Entomophthora pyriformis* Thoizon, *Entomophthora destruens* Weiser & Batko.

- 2 [ARSEF 3364; CSIRO EM570] FR Holbrook. *Myzus persicae* [Hemiptera: Aphididae]. May 1972. USA: greenhouse, Aroostook State Farm, Presque Isle, Maine.
- 15 [ARSEF 115, 208, 3360, 3361; CBS 183.60; CSIRO EM510, EM571; RG Kenneth 3022, 3035; NRRL 2780] ATCC (14270) ← I Hall. *Therioaphis maculata* [Hemiptera: Aphididae] on *Medicago sativa*. Rec'd 2 Oct 1972. USA: California. CULTURE EX TYPE of *Entomophthora virulenta*.
- 29 RS Soper ← I Hall. *Therioaphis maculata* [Hemiptera: Aphididae]. Acc'd 19 Apr 1982. USA: California.
- 39 RS Soper. *Myzus persicae* [Hemiptera: Aphididae]. 12 Mar 1973. USA: State of Maine Potato Field, Homestead, Florida.
- 40 [ARSEF 3362; RG Kenneth 3024] *Macrosiphum euphorbiae* [Hemiptera: Aphididae]. 1973. USA: Aroostook State Farm, Presque Isle, Maine.
- 41 [ARSEF 3359; RG Kenneth 3023] *Myzus persicae* [Hemiptera: Aphididae]. Aug 1974. USA: Aroostook State Farm, Presque Isle, Maine.
- 42 [ARSEF 117 (lost); RG Kenneth 3025] N Wilding (3). *Aphis fabae* [Hemiptera: Aphididae]. Jul 1973. United Kingdom: field collection, Bedfordshire, England.
- 57 RS Soper. *Myzus persicae* [Hemiptera: Aphididae]. 29 Aug 1975. USA: Rogers Farm, Stillwater, Maine.
- 58 [Hemiptera: Aphididae]. 18 May 1975. Commonwealth of Independent States.
- 59 [Hemiptera: Aphididae]. 25 Jul 1975. Commonwealth of Independent States.
- 63 [CSIRO EM557] *Myzus persicae* [Hemiptera: Aphididae]. 27 Jul 1975. Commonwealth of Independent States.
- 73 [CSIRO EM534; FPMI 28] RG Kenneth (3040) ← ATCC (24419) ← DM MacLeod ← G Thoizon. *Rhopalosiphum insertum* [Hemiptera: Aphididae]. Rec'd 18 Jan 1976. France: Val-de-Marne, La Varenne.

- 83 [CSIRO EM551, EM572] RG Kenneth (3086) or (E.a. 38) ← A Uziel. *Aphis gossypii* [Hemiptera: Aphididae] on pomegranate. 1976. Israel: Sedé Eliyahu.
- 99 N Wilding (8) ← EG Voronina. *Myzus persicae* [Hemiptera: Aphididae]. 1963. Commonwealth of Independent States: St. Petersburg, Russia.
- 100 [CSIRO EM552, EM573] N Wilding (9) ← EG Voronina. *Acyrtosiphon pisum* [Hemiptera: Aphididae]. 1963. Commonwealth of Independent States.
- 101 [ARSEF 1733] N Wilding (1). *Cavariella theobaldi* [Hemiptera: Aphididae]. 20 Sep 1968. United Kingdom: laboratory colony, Rothamsted Experimental Station, Hertfordshire, England.
- 102 [ARSEF 1734, 363; CSIRO EM503] N Wilding (2). *Cavariella theobaldi* [Hemiptera: Aphididae]. 20 Sep 1968. United Kingdom: laboratory colony, Rothamsted Experimental Station, Hertfordshire, England.
- 115 [ARSEF 15, 208, 3360, 3361; CBS 183.60; CSIRO EM510, EM571; RG Kenneth 3022, 3035; NRRL 2780] ATCC (14270) ← I Hall. *Therioaphis maculata* [Hemiptera: Aphididae] on *Medicago sativa*. Acc'd 18 Dec 1987. USA: California. CULTURE EX TYPE of *Entomophthora virulenta*.
- 120 [IPLB 19] JP Latgé and G Remaudière. *Uroleucon* sp. [Hemiptera: Aphididae] on *Solidago* sp. [Asteraceae]. 25 Aug 1976. Canada: Chute aux Galets, Québec.
- 194 I Ben-Ze'ev (38). *Aphis gossypii* [Hemiptera: Aphididae] on pomegranate tree. Apr 1976. Israel: Sedé Eliyahu.
- 208 [ARSEF 115, 15, 3360, 3361; ATCC 14270; CBS 183.60; CSIRO EM510, EM571; RG Kenneth 3022, 3035; NRRL 2780] G Hartmann ← I Hall. *Therioaphis maculata* [Hemiptera: Aphididae] on *Medicago sativa*. Rec'd Mar 1978. USA: California. CULTURE EX TYPE of *Entomophthora virulenta*.
- 242 I Majchrowicz. *Aphis fabae* [Hemiptera: Aphididae] on sugar beet. Rec'd 6 Sep 1978. Poland: Szczecin.
- 244 I Majchrowicz. *Aphis fabae* [Hemiptera: Aphididae] on sugar beet. Rec'd 6 Sep 1978. Poland: Szczecin.
- 245 I Majchrowicz. *Aphis fabae* [Hemiptera: Aphididae] on sugar beet. Rec'd 6 Sep 1978. Poland: Szczecin.
- 246 I Majchrowicz. *Aphis fabae* [Hemiptera: Aphididae] on sugar beet. Rec'd 6 Sep 1978. Poland: Szczecin.
- 247 I Majchrowicz. *Aphis fabae* [Hemiptera: Aphididae] on sugar beet. Rec'd 6 Sep 1978. Poland: Szczecin.
- 248 I Majchrowicz ← EG Voronina. [Hemiptera: Aphididae]. 25 Jul 1978. Commonwealth of Independent States.
- 249 I Majchrowicz ← EG Voronina. [Hemiptera: Aphididae]. 25 Jul 1978. Commonwealth of Independent States.
- 250 I Majchrowicz ← EG Voronina. [Hemiptera: Aphididae]. 25 Jul 1978. Commonwealth of Independent States.

- 363 [ARSEF 102, 1734] CSIRO (EM503) ← N Wilding (2). *Cavariella theobaldi* [Hemiptera: Aphididae]. Acc'd 27 Jul 1979. United Kingdom: laboratory colony, Rothamsted Experimental Station, Hertfordshire, England.
- 630 I Majchrowicz (106). *Aphis fabae* [Hemiptera: Aphididae]. 16 Jul 1981. Poland: Gumience, Szczecin.
- 631 I Majchrowicz (107). *Aphis fabae* [Hemiptera: Aphididae]. 16 Jul 1981. Poland: Szczecin.
- 632 I Majchrowicz (110). *Aphis fabae* [Hemiptera: Aphididae]. 25 Jul 1981. Poland: Gryfino, Szczecin.
- 633 I Majchrowicz (109). *Aphis fabae* [Hemiptera: Aphididae]. 23 Jul 1981. Poland: Stanpanel.
- 634 I Majchrowicz (111). *Aphis fabae* [Hemiptera: Aphididae]. 27 Jul 1981. Poland: Szczecin.
- 635 I Majchrowicz (108). *Aphis fabae* [Hemiptera: Aphididae]. 18 Jul 1981. Poland: Szczecin.
- 649 JS Ferguson. *Myzus persicae* [Hemiptera: Aphididae] on potato (*Solanum tuberosum*). 7 Aug 1981. USA: Arlington Experimental Farm, Columbia County, Wisconsin.
- 1006 J Aoki (Ent. 15) ← H Tomiyama. [Hemiptera: Aphididae]. Nov 1976. Japan: Fuchu, Tokyo Prefecture.
- 1733 [ARSEF 101] N Wilding (1). *Cavariella theobaldi* [Hemiptera: Aphididae]. 20 Sep 1968. United Kingdom: laboratory colony, Rothamsted Experimental Station, Hertfordshire, England.
- 1734 [ARSEF 102, 363; CSIRO EM503] N Wilding (2). *Cavariella theobaldi* [Hemiptera: Aphididae]. 20 Sep 1968. United Kingdom: laboratory colony, Rothamsted Experimental Station, Hertfordshire, England.
- 1735 N Wilding (8). *Aphis fabae* [Hemiptera: Aphididae]. Jul 1973. United Kingdom: Woburn Farm, Bedfordshire, England.
- 2828 MG Feng (MD8903). *Metopolophium dirhodum* [Hemiptera: Aphididae] on spring wheat. 21 Jul 1989. USA: Parma, Idaho.
- 2829 MG Feng (MD8907). *Metopolophium dirhodum* [Hemiptera: Aphididae] on spring wheat. 21 Jul 1989. USA: Parma, Idaho.
- 2849 MG Feng (MD8902). *Metopolophium dirhodum* [Hemiptera: Aphididae] on spring wheat. 21 Jul 1989. USA: Parma, Idaho.
- 2850 MG Feng (MD8908). *Metopolophium dirhodum* [Hemiptera: Aphididae] on spring wheat. 21 Jul 1989. USA: Parma, Idaho.
- 2914 LL Hotz. *Diuraphis tritici* [Hemiptera: Aphididae]. Rec'd 17 Nov 1989. USA: mixed field collection from Bozeman and Mocassin, Montana.
- 2955 MS Goettel. *Schizaphis graminum* [Hemiptera: Aphididae]. 25 Sep 1989. Canada: Writing-on-Stone Prov. Park, Warner County, Alberta.
- 3129 M Wheeler. *Empoasca fabae* [Hemiptera: Cicadellidae]. 28 Sep 1990. USA: Hoffman field # 6B, Catherine, New York.
- 4968 J Hatting (A). *Diuraphis noxia* [Hemiptera: Aphididae]. Aug 1995. South Africa: Bethlehem, Free State.
- 6662 M Shternshis. *Acyrthosiphon pisum* [Hemiptera: Aphididae]. 1981. Russian Federation: Novosibirsk Region.
- 7209 AE Hajek (03 NY 7-3-1). *Aphis glycines* [Hemiptera: Aphididae]. 7 Aug 2003. USA: Field number 3, North Rose, New York.
- 7210 AE Hajek (03 NY 7-3-2). *Aphis glycines* [Hemiptera: Aphididae]. 7 Aug 2003. USA: Field number 3, North Rose, New York.
- 7211 AE Hajek (03 NY 7-3-3). *Aphis glycines* [Hemiptera: Aphididae]. 7 Aug 2003. USA: Field number 3, North Rose, New York.
- 11664 KA Koch. *Aphis glycines* [Hemiptera: Aphididae]. Jul 2005. USA: University of Minnesota Outreach, Research, and Education Park, Rosemount, Minnesota. GPS Coordinates: N 44.7080722, W 93.0993032.

***Cordyceps* sp.**

[Sordariomycetes: Hypocreales]

Family cannot be determined since this genus in its old, broad sense is now segregated among several genera in three families

- 4846 JM Sung (C-208). Adult, [Hemiptera: Pentatomidae]. 9 Jul 1993. Republic of Korea: Yongmoon Mt., Gyeonggi Province.

- 6281 [RCEF 0243] [Hemiptera: Cicadellidae]. 8 Aug 1996. PR China: Guizhou Province.

- 6349 [RCEF 0244] [Hemiptera: Cercopidae]. 8 Aug 1996. PR China: Guizhou Province.

***Curvularia* sp.**

[Dothideomycetes: Pleosporales]

Pleosporaceae

- 6367 Adult, female, *Zulia carbonaria* [Hemiptera: Cercopidae]. 28 Jun 1998. Colombia: Santander de Quilichao, Cauca.

***Cylindrocarpus* sp.**

[Sordariomycetes: Hypocreales]

Nectriaceae

- 5758 BL Parker (SPT 035). *Aelia* sp. [Hemiptera: Pentatomidae]. 16 Jan 1998. Turkey: Graek, Kalayak, Elbistan, Kahraman Maras.

***Dactylella* sp.**

[Orbiliomycetes: Orbiliales]

Orbiliaceae

- 6372 Adult, male, *Aeneolamia varia* [Hemiptera: Cercopidae]. 2 Jul 1999. Colombia: Farm of C.I. La Libertad, Villavicencio, Meta.

***Doratomyces(?)* sp.**

[Sordariomycetes: Microascales]

Microascaceae

- 9367 [ERL 1667] S Gouli and V Gouli (HWA-G-20). *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: New Hampshire.

***Engyodontium(?)* sp.**

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 9476 [SRCAMB VL-1687] V Likhovidov. [Hemiptera: Psyllidae]. 19 Sep 2004. Russian Federation: Caucasus region, Mostovsky District, Krasnodarsky Krai. Field Collection Number F-769.

***Entomophaga* sp.**

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae

- 1126 DW Roberts (020184-2A). *Nephotettix bipunctata cincticeps* [Hemiptera: Cicadellidae]. 2 Jan 1984. Philippines: IRRI, Los Baños, Manila.
- 1230 [CNPAF 84-04-09-1B; CP 130] DW Roberts. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 9 Apr 1984. Brazil: CNPAF, Goiânia, Goiás.
- 1881 DW Roberts (110485-2) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae] on cacao. 11 Apr 1985. Solomon Islands: nr. Honiara, Guadalcanal.

***Entomophaga australiensis* Humber (sp. nov., unpublished)**

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae

- 328 [FPMI 767] RS Soper (P-38). *Cicadella* sp. [Hemiptera: Cicadellidae] on rice. Feb 1979. Australia: Arriga, Queensland.
- 331 [ARSEF 332 (lost)] RS Soper ← K Chandler. *Cicadetta puer* [Hemiptera: Cicadidae] on sugar cane. 14 Feb 1979. Australia: Cairns, Queensland.
- 365 RS Soper. *Cicadetta puer* [Hemiptera: Cicadidae]. 13 Feb 1979. Australia: Cairns, Queensland.
- 581 RS Soper (81223-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 23 Feb 1981. Indonesia: Bangun Village, Kecamatan Tanjung, Deliserdang District, Sumatera Utara, Sumatra.
- 743 [CNPAF 82-3-10-04; CP 33] RS Soper. [Hemiptera: Cicadellidae]. 10 Mar 1982. Brazil: CNPAF, Goiânia, Goiás.
- 791 [CNPAF 82-5-7-3D-1; CP 44] RA Daoust and DW Roberts. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 7 May 1982. Brazil: 4 km from Goianinha, Rio Grande do Norte.

***Entomophaga praxibuli* Humber, Milner, & Soper (sp. nov., unpublished)**

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae. Strains are provided as vegetative protoplasts in liquid tissue culture medium. No sustainable growth of walled hyphae, conidia, or resting spores has been produced by cultures.

- 3058 ME Ramos. *Empoasca vitis* [Hemiptera: Cicadellidae]. 10 Aug 1990. Laboratory manipulation. Reisolate of ARSEF 2964.

***Entomophthora chromaphidis* Burger & Swain**

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae. This taxon has been segregated from *Entomophthora planchoniana* Cornu (see Humber & Feng, 1991, Mycotaxon 51:497-504). Strains should be incubated at temperatures $\leq 20^{\circ}\text{C}$.

- 1860 DG Holdom (UQE-2-2). *Acyrtosiphon kondoi* [Hemiptera: Aphididae]. Jun 1981. Australia: Lockyer Valley, Queensland.
- 1862 DG Holdom (UQE-15). *Acyrtosiphon kondoi* [Hemiptera: Aphididae]. Jan 1983. Australia: Lockyer Valley, Queensland.
- 1863 DG Holdom (UQE-21). *Acyrtosiphon kondoi* [Hemiptera: Aphididae]. Jan 1983. Australia: Lockyer Valley, Queensland.

***Entomophthora planchoniana* Cornu**

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae

- 6251 F Freimoser (ETH 16b). *Ovatus crataegarius* [Hemiptera: Aphididae] on *Mentha* sp. (Lamiaceae). Rec'd 17 Aug 1999. Denmark: in garden, Hundested, Zealand.
- 6252 F Freimoser (ETH 16c). *Ovatus crataegarius* [Hemiptera: Aphididae] on *Mentha* sp. (Lamiaceae). Rec'd 17 Aug 1999. Denmark: in garden, Hundested, Zealand.

***Entomophthora thripidum* Samson, Ramakers &**

Oswald

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae

- 5868 A Grundschober (ETH 601). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig.
- 6517 F Freimoser (ETH 602). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: Laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig.
- 6518 F Freimoser (ETH 603). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: Laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig.

- 6519 F Freimoser (ETH 604). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: Laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig.
- 6520 F Freimoser (ETH 605). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: Laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig.
- 6521 F Freimoser (ETH 607). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: Laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig. Re-isolate of ETH 603 [=ARSEF 6518] after passage through *Thrips tabaci*.
- 6522 F Freimoser (ETH 608). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: Laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig. Re-isolate of ETH 603 [=ARSEF 6518] after passage through *Thrips tabaci*.
- 6525 F Freimoser (ETH 606). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: Laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig.

***Erynia* sp.**

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae. Strains included here were not sufficiently identifiable to the species and have not been reidentified since publication of the entomophthoralean taxonomy used here (see Humber, 1989, Mycotaxon 34:441-460). In this classification these strains would be reassigned to *Pandora* Humber, *Furia* (Batko) Humber, *Erynia* (Nowakowski ex Batko) Remaudière & Hennebert, or *Zoophthora* Batko.

- 1666 JV Maddox, MR McGuire and MJ Morris. *Theorhaphis maculata* [Hemiptera: Aphididae] in clover field. May 1984. USA: Illinois.
- 2279 IL Sivcev (20/86). [Hemiptera: Aphididae] on *Cichorium intybus*. 10 Jun 1986. Yugoslavia: Zemun, Belgrade.
- 2292 IL Sivcev (42/86). *Macrosiphum euphorbiae* [Hemiptera: Aphididae] on cabbage. 23 Jun 1986. Yugoslavia: PKB commune, Zemun, Belgrade.
- 2294 IL Sivcev (55/86). *Brevicoryne brassicae* [Hemiptera: Aphididae]. 23 Jun 1986. Yugoslavia: PKB commune, Zemun, Belgrade.

Eurotiomycetes, genus undetermined

[Eurotiomycetes]

- 9360 [ERL 1646] S Gouli (HWA-G-1) and V Gouli. *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: New Hampshire.
- 9361 [ERL 1650] S Gouli (HWA-G-6) and V Gouli. *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: New Hampshire.

***Evlachovaea* sp.**

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 6635 SB Alves (ESALQ 1225). *Leptopharsa heveae* [Hemiptera: Tingidae]. 28 Sep 1998. Brazil: Itiquira, Mato Grosso.
- 6638 SB Alves (ESALQ 1228). *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 25 Sep 2000. Brazil: Manaus, Amazonas.
- 6639 SB Alves (ESALQ 1229). *Leptopharsa heveae* [Hemiptera: Tingidae]. 29 Sep 1998. Brazil: Itiquira, Mato Grosso.
- 6640 SB Alves (ESALQ 1230). *Leptopharsa heveae* [Hemiptera: Tingidae]. 29 Sep 1998. Brazil: Itiquira, Mato Grosso.
- 6641 SB Alves (ESALQ 1235). *Leptopharsa heveae* [Hemiptera: Tingidae]. 11 Nov 1998. Brazil: Brasília, Distrito Federal.
- 11788 [ERL 2013] S Gouli and V Gouli (THR-11-5). [Thysanoptera: Thripidae]. 2011. USA: Langdon, New Hampshire.

***Exophiala* sp.**

[Eurotiomycetes: Chaetothyriales]

Herpotrichiellaceae

- 9362 [ERL 1652] S Gouli (HWA-G-7) and V Gouli. *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: New Hampshire.

***Furia virescens* (Thaxter) Humber**

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae

- 394 S Keller (24). *Notostira elongata* [Hemiptera: Miridae]. 9 Oct 1975. Switzerland.

***Fusarium* sp.**

[Sordariomycetes: Hypocreales]

Nectriaceae

- 687 [NRRL 25080] DW Roberts (101181-4). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 11 Oct 1981. PR China: Shanghai, Kiangsu.
- 1307 [NRRL 25081] TJ Poprawski (043). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 23 May 1983. Italy: Acquapendente, Lazio.
- 1641 [NRRL 25084] TJ Poprawski (0138). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 13 Jul 1984. Austria: Burgenland.
- 1828 [NRRL 25085] RA Humber (Fus. Wal) and MC Rombach. [Hemiptera: Coccidae] on stems of young *Citrus* sp. 13 Nov 1984. Sri Lanka: Walpita Farm, between Diwulapitiya & Kotadeniyawa.
- 2232 [NRRL 25086] K Narayanan (6). *Coccus viridis* [Hemiptera: Coccidae]. Rec'd 27 Aug 1986. India.

- 2303 [NRRL 52756] JE Moxon (2). *Heteropsylla cubana* [Hemiptera: Psyllidae]. Oct 1986. Papua New Guinea: Lowlands Agricultural Experiment Station, Keravat, East New Britain.
- 2333 [NRRL 25088] MG Feng (SA8602). *Sitobion avenae* [Hemiptera: Aphididae] on spring wheat. Summer 1986. USA: Apple Valley Rd. & Klahr Rd., Parma, Idaho.
- 2337 [NRRL 25089] MG Feng (RP8601). *Rhopalosiphum padi* [Hemiptera: Aphididae] on field corn. 2 Sep 1986. USA: Apple Valley Rd. & Klahr Rd., Parma, Idaho.
- 3345 [NRRL 25103] F Badilla. *Aeneolamia postica* [Hemiptera: Cercopidae] on sugar cane. Nov 1990. Costa Rica: San Carlos.
- 3668 [NRRL 25106] TJ Poprawski (38). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on snail vine. Jan 1992. USA: El Centro, California.
- 3669 [NRRL 25107] TJ Poprawski (60). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on apple tree. 4 Feb 1992. USA: Monroy Estate, El Centro, California.
- 3670 [NRRL 25108] TJ Poprawski (5). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on orchid tree. 3 Jan 1992. USA: Vogles Nursery, Holtville, California.
- 3671 [NRRL 25109] TJ Poprawski (7). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on tangerine. 14 Jan 1992. USA: Broken Spoke Trailer Park, El Centro, California.
- 3672 [NRRL 25110] TJ Poprawski (19). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on ornamental kale. 30 Jan 1992. Mexico: Veracruz-Tobar Ranch, Est. Victoria, Mexicali Valley, Baja California.
- 3673 [NRRL 25111] TJ Poprawski (32). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on lemon tree. 22 Jan 1992. USA: Brawley, California.
- 3674 [NRRL 25112] TJ Poprawski (50). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on orchid tree. 28 Jan 1992. USA: Calexico, California.
- 3675 [NRRL 25113] TJ Poprawski (5A). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on orchid tree. 3 Jan 1992. USA: Holtville, California.
- 3676 [NRRL 25114] TJ Poprawski (2). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on orange tree. 13 Jan 1992. Mexico.
- 3677 [NRRL 25115] TJ Poprawski (2A). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on cauliflower. 13 Jan 1992. Mexico.
- 3678 [NRRL 25116] TJ Poprawski (13). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on broccoli. 16 Jan 1992. USA: Calexico, California.
- 3679 [NRRL 25117] TJ Poprawski (15). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on kale. 17 Jan 1992. Mexico: Aranzga Ranch, Est. Victoria, Mexicali Valley, Baja California.
- 3704 [NRRL 25118] LA Lacey (022A). Adult, [Hemiptera: Aphididae]. 6 Mar 1992. Pakistan: Lahore.
- 3707 [NRRL 25119] LA Lacey (021A). Adult, [Hemiptera: Aphididae]. 6 Mar 1992. Pakistan: Lahore.
- 4002 [NRRL 25122] LA Lacey (93039) ← Heruies. [Hemiptera: Aleyrodidae] on citrus. 30 Apr 1993. Brazil: Bahia.
- 4713 [NRRL 52762] D Peck (5). Adult, female, *Prosapia nr. bicincta* [Hemiptera: Cercopidae] on *Cynodon nlemfuensis* Vanderyst, African Bermudagrass. 12 Aug 1994. Costa Rica: Dairy pasture at 1325M elevation, Monteverde, Puntarenas.
- 4714 [NRRL 52758] D Peck (7). Adult, female, *Prosapia nr. bicincta* [Hemiptera: Cercopidae] on *Cynodon nlemfuensis* Vanderyst, African Bermudagrass. 12 Aug 1994. Costa Rica: Dairy pasture at 1325M elevation, Monteverde, Puntarenas.
- 4715 [NRRL 52760] D Peck (9). Adult, male, *Prosapia nr. bicincta* [Hemiptera: Cercopidae] on *Cynodon nlemfuensis* Vanderyst, African Bermudagrass. 12 Aug 1994. Costa Rica: Dairy pasture at 1325M elevation, Monteverde, Puntarenas.
- 4969 [NRRL 52688] JL Hatting (B). *Diuraphis noxia* [Hemiptera: Aphididae]. Aug 1995. South Africa: Bethlehem, Free State.
- 5332 [NRRL 52725] SARL (150) ← S Doerfler, B Flores and TJ Poprawski. Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on okra. 6 Sep 1994. USA: Harlingen, Texas.
- 5680 BL Parker (SPT-042). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1998. Turkey: Graek, Konor, Elbistan, Kahraman Maras.
- 5682 BL Parker (SPT-078). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 25 Jan 1998. Syria: Rmilan, Hassakeh, Azaz, Halab.
- 5726 L Erkiliç (95-1). *Aphis gossypii* [Hemiptera: Aphididae] on *Citrus*. 12 Jul 1995. Turkey: Adana, Adana.
- 5727 L Erkiliç (96-1). *Aphis gossypii* [Hemiptera: Aphididae] on *Gossypium*. 30 Jul 1996. Turkey: Adana, Adana.
- 5728 L Erkiliç (97-1). *Aphis gossypii* [Hemiptera: Aphididae] on *Gossypium*. 23 Aug 1997. Turkey: Adana, Adana.
- 5755 BL Parker (SPT 026/1). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 21 Jan 1998. Syria: Al Kilabia.
- 5757 BL Parker (SPT 029/2). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 21 Jan 1998. Syria: Meshmeghan.
- 5803 BL Parker (HWA 310). *Adelges tsugae* [Hemiptera: Adelgidae]. Oct 1997. USA: Russell, Massachusetts.
- 5825 BL Parker (AT 153). *Adelges tsugae* [Hemiptera: Adelgidae]. Oct 1997. USA: Forest Park, Massachusetts.
- 6225 FE Vega. *Lopholeucaspis japonica* [Hemiptera: Diaspididae]. 6 Oct 1998. Republic of Georgia: Batumi, Autonomous Republic of Adjara.

- 6320 [CIAT 004; NRRL 52687] DC Peck. Adult, *Zulia pubescens* [Hemiptera: Cercopidae]. 5 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.
- 6348 [CIAT 020; NRRL 52686] DC Peck. Adult, *Zulia colombiana* [Hemiptera: Cercopidae]. 7 Apr 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.
- 6351 [CIAT 021; NRRL 52684] DC Peck. Adult, *Zulia colombiana* [Hemiptera: Cercopidae]. 7 Apr 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.
- 6352 [CIAT 022; NRRL 52685] DC Peck. Adult, *Zulia colombiana* [Hemiptera: Cercopidae]. 6 May 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.
- 6353 [CIAT 023; NRRL 52691] DC Peck. Adult, *Zulia colombiana* [Hemiptera: Cercopidae]. 6 May 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.
- 6354 [CIAT 024; NRRL 52693] DC Peck. Adult, *Zulia colombiana* [Hemiptera: Cercopidae]. 6 May 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.
- 6358 [CIAT 028; NRRL 52692] DC Peck. Adult, male, *Zulia colombiana* [Hemiptera: Cercopidae]. 18 May 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.
- 6375 [CIAT 040; NRRL 52694] DC Peck. Adult, male, *Zulia pubescens* [Hemiptera: Cercopidae]. 12 May 1997. Colombia: El Diamante Farm, San José de Fragua, Caquetá.
- 6394 B Tunali (11). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 30 Jun 1999. Turkey: Kinkkale, Ankara.
- 6395 B Tunali (12). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2 Sep 1999. Turkey: Aksaray, Nigde.
- 6396 B Tunali (16). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 30 Jun 1999. Turkey: Yozgat.
- 6397 B Tunali (18). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 5 Jul 1999. Turkey: Kinkkale, Ankara.
- 6398 B Tunali (19). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 8 Sep 1999. Turkey: Aksaray, Nigde.
- 6400 B Tunali (22). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 27 Aug 1999. Turkey: Aksaray, Nigde.
- 6401 [NRRL 52722] B Tunali (23). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 23 Jun 1999. Turkey: Bogazliyan, Yozgat.
- 6402 [NRRL 52723] B Tunali (24). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 23 Jun 1999. Turkey: Yozgat.
- 6403 [NRRL 52721] B Tunali (25). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 29 Jun 1999. Turkey: Beynam, Ankara.
- 6409 [NRRL 52716] B Tunali (36). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 5 Jul 1999. Turkey: Aksaray, Nigde.
- 6410 [NRRL 52720] B Tunali (38). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 5 Jul 1999. Turkey: Beynam, Ankara.
- 6411 [NRRL 52718] B Tunali (34). *Dolycor* sp. [Hemiptera: Pentatomidae]. 8 Oct 1999. Turkey: Kollubaba.
- 6425 [NRRL 52719] B Tunali (17). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 5 Jul 1999. Turkey: Kinkkale, Ankara.
- 6428 [NRRL 52714] B Tunali (21). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 7 Aug 1999. Turkey: Kirsehir.
- 6429 B Tunali (39). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 5 Jul 1999. Turkey: Aksaray, Nigde.
- 6460 [CIAT 045; NRRL 52700] DC Peck. Adult, female, *Mahanarva andigena* [Hemiptera: Cercopidae]. 21 Jul 1999. Colombia: El Mira Farm, Tumaco, Nariño.
- 6461 [CIAT 046; NRRL 52699] DC Peck. Adult, female, *Mahanarva andigena* [Hemiptera: Cercopidae]. 21 Jul 1999. Colombia: El Mira Farm, Tumaco, Nariño.
- 6464 [CIAT 049; NRRL 52695] DC Peck. Adult, female, *Mahanarva andigena* [Hemiptera: Cercopidae]. 21 Jul 1999. Colombia: El Mira Farm, Tumaco, Nariño.
- 6465 [CIAT 050; NRRL 52698] DC Peck. Adult, *Zulia carbonaria* [Hemiptera: Cercopidae]. 4 Aug 1999. Colombia: Santander de Quilichao, Cauca.
- 6576 [CIAT 068; NRRL 52697] DC Peck. Adult, female, *Zulia pubescens* [Hemiptera: Cercopidae]. 10 Feb 2000. Colombia: San Antonio Farm, San Pedro, Valle del Cauca.
- 6790 [NRRL 52750] FJ Posada (CEFC F-0002). Nymph & adult, *Toxoptera aurantii* [Hemiptera: Aphididae] on *Citrus* spp., citrus. May 2000. Colombia: Greenhouse, Chinchiná, Caldas.
- 7233 G Mikunthan (GM/14). *Aphis gossypii* [Hemiptera: Aphididae] on *Capsicum annum* L., chili pepper. Rec'd 19 Dec 2003. India.
- 7381 G Mikunthan (GM/15). Larva, *Scirtothrips dorsalis* [Thysanoptera: Thripidae] on *Capsicum annum* L., chili pepper. 9 Sep 2003. India: University of Agricultural Sciences, Shimoga, Karnataka.
- 7473 [CEP 134; NRRL 52748] C López Lastra. *Triatoma infestans* [Hemiptera: Reduviidae]. 6 Mar 2004. Argentina: La Rioja.
- 8277 [NRRL 52745] BN Tiwary (IF-1). *Aphis fabae* [Hemiptera: Aphididae]. 28 Dec 2005. India: Patna, Bihar.
- 8278 [NRRL 52747] BN Tiwary (IF-2). *Aphis fabae* [Hemiptera: Aphididae]. 28 Dec 2005. India: Patna, Bihar.
- 8279 [NRRL 52746] BN Tiwary (IF-5). *Ceresa bubalus* [Hemiptera: Membracidae]. 28 Nov 2005. India: Patna, Bihar.
- 8282 [NRRL 52742] BN Tiwary (IF-11). *Sogatella furcifera* [Hemiptera: Delphacidae]. 26 Nov 2005. India: Patna, Bihar.

- 8283 [NRRL 52733] BN Tiwary (IF-12). *Sogatella furcifera* [Hemiptera: Delphacidae]. 26 Nov 2005. India: Patna, Bihar.
- 8285 [NRRL 52738] BN Tiwary (IF-14). *Sogatella furcifera* [Hemiptera: Delphacidae]. 26 Nov 2005. India: Patna, Bihar.
- 8287 [NRRL 52737] BN Tiwary (IF-20). *Aphis fabae* [Hemiptera: Aphididae]. 29 Dec 2005. India: Patna, Bihar.
- 9377 JG Banu (3). *Phenacoccus solenopsis* [Hemiptera: Pseudococcidae]. Aug 2008. India: Allappalayam, Coimbatore, Tamil Nadu.
- 9937 [ERL 1782] S Gouli (Thr.-09-14) and V Gouli. [Thysanoptera: Thripidae]. 2010. USA: Vermont.
- 10311 [ERL 1956] S Gouli and V Gouli (SB-10-3). *Halyomorpha halys* [Hemiptera: Pentatomidae]. Oct 2010. USA: New Jersey.
- 10312 [ERL 1957] S Gouli (SB-10-4) and V Gouli. *Halyomorpha halys* [Hemiptera: Pentatomidae]. Sep 2010. USA: New Jersey.
- 10313 [ERL 1958] S Gouli and V Gouli (SB-10-5). *Halyomorpha halys* [Hemiptera: Pentatomidae]. Oct 2010. USA: New Jersey.
- 10388 [ERL 1961] S Gouli (SB-10-8) and V Gouli. *Halyomorpha halys* [Hemiptera: Pentatomidae]. 2010. USA: New Jersey.
- 10389 [ERL 1962] S Gouli and V Gouli (SB-10-9). *Halyomorpha halys* [Hemiptera: Pentatomidae]. 2010. USA: New Jersey.
- 10390 [ERL 1963] S Gouli (SB-10-10) and V Gouli. *Halyomorpha halys* [Hemiptera: Pentatomidae]. 2010. USA: New Jersey.
- 10391 [ERL 1964] S Gouli and V Gouli (SB-10-11). *Halyomorpha halys* [Hemiptera: Pentatomidae]. 2010. USA: New Jersey.
- 11655 [ERL 1966] S Gouli (SB-10-13) and V Gouli. *Halyomorpha halys* [Hemiptera: Pentatomidae]. 2010. USA: New Jersey.
- 11790 [ERL 2015] S Gouli and V Gouli (THR-11-7). [Thysanoptera: Thripidae]. 2011. USA: Orford, New Hampshire.
- 11865 JL Hatting (SGI-914). *Rhopalosiphum padi* [Hemiptera: Aphididae]. Aug 2012. South Africa: ARC - Small Grain Institute Greenhouse, Bethlehem, Free State.
- 12072 [ERL 2159] S Gouli (PS-12/21) and V Gouli. Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Richmond, Rhode Island.
- 12073 [ERL 2160] S Gouli and V Gouli (PS-12/22). Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Richmond, Rhode Island.
- 12074 [ERL 2161] S Gouli (PS-12/23) and V Gouli. Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Richmond, Rhode Island.
- 12075 [ERL 2162] S Gouli and V Gouli (PS-12/24). Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Richmond, Rhode Island.
- 12076 [ERL 2163] S Gouli (PS-12/25) and V Gouli. Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Richmond, Rhode Island.
- 12077 [ERL 2164] S Gouli and V Gouli (PS-12/26). Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Richmond, Rhode Island.
- 12078 [ERL 2165] S Gouli (PS-12/27) and V Gouli. Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Richmond, Rhode Island.
- 12079 [ERL 2166] S Gouli and V Gouli (PS-12/28). Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Richmond, Rhode Island.
- 12084 [ERL 2171] S Gouli (PS-12/33) and V Gouli. Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Betula alleghaniensis* Britton, yellow birch. Sep 2012. USA: Richmond, Rhode Island.
- Fusarium coccophilum*** (Desmazieres) Wollenweber & Reinking
[Sordariomycetes: Hypocreales]
Nectriaceae
- 821 [NRRL 25126] GG Soares (1). *Melanaspis obscura* [Hemiptera: Diaspididae]. Acc'd Winter 1983. USA: Washington, District of Columbia.
- 2098 [NRRL 25127] DG Holdom (180186). *Lepidosaphes* sp. [Hemiptera: Diaspididae]. 18 Jan 1986. Indonesia: "Jeruk Siam" Plantation, Sukamundi, Jawa Barat, Java.
- 7409 M Liu (ml173). [Hemiptera: Coccoidea] on *Citrus* sp., citrus. 16 Dec 2003. USA: Guilarte, Route 518, beside school, Adjuntas, Puerto Rico.
- Fusarium lateritium*** Nees:Fries
[Sordariomycetes: Hypocreales]
Nectriaceae
- 2304 [NRRL 52765; PSU L-237] JE Moxon (3). *Heterosylla cubana* [Hemiptera: Psyllidae]. Oct 1986. Papua New Guinea: Lowlands Agricultural Experiment Station, Keravat, East New Britain.
- Fusarium moniliforme*** Sheldon
[Sordariomycetes: Hypocreales]
Nectriaceae
- 2074 [NRRL 25028] H David. *Melanaspis glomerata*

[Hemiptera: Diaspididae]. Acc'd 10 Jan 1986. India: Sugarcane Breeding Institute, Coimbatore, Tamil Nadu.

Fusarium moniliforme* var. *intermedium Neish & Leggett
[Sordariomycetes: Hypocreales]
Nectriaceae

3223 [IMI 330803; NRRL 25029] DW Roberts ← PR Srinivas. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd 22 Mar 1991. India.

***Fusarium oxysporum*(?)** Schlechtendahl
[Sordariomycetes: Hypocreales]
Nectriaceae

6355 [CIAT 025; NRRL 52690] DC Peck. Adult, *Zulia colombiana* [Hemiptera: Cercopidae]. 6 May 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.

Fusarium semitectum Berkeley ex Ravanel
[Sordariomycetes: Hypocreales]
Nectriaceae

2053 [NRRL 25202] MC Rombach (071185-3) ← SB Ahn (E1-7 & E1-5). *Nilaparvata lugens* [Hemiptera: Delphacidae] on rice. 1985. Republic of Korea. Appreciable source of beauvericin (Gupta, Krasnoff, Underwood, Renwick, and Roberts. 1991. Mycopathologia 115: 185-189. Isolation of beauvericin as an insect toxin from *Fusarium semitectum* and *Fusarium moniliforme* var. *subglutinans*).

2299 [NRRL 25134; PSU R-8540] M Holderness ← JE Moxon (CCR14-4). *Heteropsylla incisa* [Hemiptera: Psyllidae] on *Leucaena leucocephala*. Sep 1986. Papua New Guinea: Lowlands Agricultural Experiment Station, Keravat, East New Britain.

2300 [NRRL 25135; PSU R-8541] M Holderness ← JE Moxon (CCR15-6). *Heteropsylla incisa* [Hemiptera: Psyllidae] on *Leucaena leucocephala*. Sep 1986. Papua New Guinea: Lowlands Agricultural Experiment Station, Keravat, East New Britain.

Fusarium subglutinans (Wollenweber & Reinking) Nelson, Tousson & Marasas
[Sordariomycetes: Hypocreales]
Nectriaceae

2143 [NRRL 25032] H David (8). *Pyrilla perpusilla* [Hemiptera: Lophopidae]. Acc'd 2 Apr 1986. India: Coimbatore, Tamil Nadu.

2144 [NRRL 25140] H David (9). *Pyrilla perpusilla* [Hemiptera: Lophopidae]. Acc'd 2 Apr 1986. India: Coimbatore, Tamil Nadu.

2145 [NRRL 25033] H David (10). *Pulvinaria elongata* [Hemiptera: Coccidae]. Acc'd 2 Apr 1986. India: Coimbatore, Tamil Nadu.

2301 [NRRL 25034; PSU M-3856] M Holderness ← JE Moxon (CCR16-6). *Heteropsylla incisa* [Hemiptera: Psyllidae]. Sep 1986. Papua New Guinea: Lowlands Agricultural Experiment Station, Keravat, East New Britain.

***Geotrichum* (?) sp.**
[Saccharomycetes: Saccharomycetales]
Dipodascaceae

5823 BL Parker (AT 79/2). *Adelges tsugae* [Hemiptera: Adelgidae]. 17 Aug 1997. USA: Forest Park, Massachusetts.

***Gliocladium*(?) sp.**
[Sordariomycetes: Hypocreales]

6579 G Sewify (1). *Icerya purchasi* [Hemiptera: Margarodidae]. May 2000. Egypt.

6583 G Sewify (5). *Icerya purchasi* [Hemiptera: Margarodidae]. May 2000. Egypt.

***Hirsutella* sp.**
[Sordariomycetes: Hypocreales]

Ophiocordycipitaceae. Strains listed here have not been satisfactorily identified to species largely due to the lack of adequate taxonomic information for the majority of species in this large and important genus. *Hirsutella* is a known or possible synanamorph for many other hyphomycete entomopathogens with teleomorphs classified in the Clavicipitaceae (Pyrenomycetes: Clavicipitaceae).

568 RS Soper (81225-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 25 Feb 1981. Indonesia: Salek I Village, Muba District, Sumatera Selatan, Sumatra.

1096 [ARSEF ?1256; IRRI 4A] RM Aguda. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 17 Oct 1983. Philippines: IRRI, Los Baños, Manila.

1625 SG Wraight and SP Wraight. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 10 Jul 1984. Brazil: CNPAF, Goiânia, Goiás.

1668 MS McClure. *Nuculaspis tsugae* [Hemiptera: Diaspididae] on *Tsuga sieboldii*. 17 May 1984. Japan: 1200 m, Mt. Odai-ga-hara, Nara Prefecture.

2208 MC Rombach (030786-2) ← AT Barrion. *Cyrtorhinus lividipennis* [Hemiptera: Miridae] on rice leaf. 1 Jul 1986. Philippines: nr. Bo. Looc, Villanueva, Misamis Oriental.

2209 MC Rombach (070786-5). *Cyrtorhinus lividipennis* [Hemiptera: Miridae] on rice leaf. 7 Jul 1986. Philippines: nr. Bo. Looc, Villanueva, Misamis Oriental.

2644 [CNPAF 88-07-16-4; CP 256] DW Roberts ← EC de Moura, E Dias Quintela and SM dos Santos. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 16 Jul 1988. Brazil: Caucaia, Ceará.

2645 [CNPAF 88-07-16-5; CP 257] DW Roberts ← EC de Moura, E Dias Quintela and SM dos Santos. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 16 Jul 1988. Brazil: Caucaia, Ceará.

- 2646 [CNPAF 88-07-16-6; CP 258] DW Roberts ← EC de Moura, E Dias Quintela and SM dos Santos. *Empoasca kraemer* [Hemiptera: Cicadellidae]. 16 Jul 1988. Brazil: Caucaia, Ceará.
- 2647 [CNPAF 88-07-16-7; CP 259] DW Roberts ← EC de Moura, E Dias Quintela and SM dos Santos. *Empoasca kraemer* [Hemiptera: Cicadellidae]. 16 Jul 1988. Brazil: Caucaia, Ceará.
- 2648 [CNPAF 88-07-16-9; CP 260] DW Roberts ← EC de Moura, E Dias Quintela and SM dos Santos. *Empoasca kraemer* [Hemiptera: Cicadellidae]. 16 Jul 1988. Brazil: Caucaia, Ceará.
- 2649 [ARSEF 2992; CNPAF 88-07-16-10; CP 261] DW Roberts ← EC de Moura (H-10), E Dias Quintela and SM dos Santos. *Empoasca kraemer* [Hemiptera: Cicadellidae]. 16 Jul 1988. Brazil: Caucaia, Ceará.
- 2650 [ARSEF 2993; CNPAF 88-07-16-11; CP 262] DW Roberts ← EC de Moura (H-11), E Dias Quintela and SM dos Santos. *Empoasca kraemer* [Hemiptera: Cicadellidae]. 16 Jul 1988. Brazil: Caucaia, Ceará.
- 2651 [CNPAF 88-07-16-12; CP 263] DW Roberts ← EC de Moura, E Dias Quintela and SM dos Santos. *Empoasca kraemer* [Hemiptera: Cicadellidae]. 16 Jul 1988. Brazil: Caucaia, Ceará.
- 2652 [CNPAF 88-07-16-13; CP 264] DW Roberts ← EC de Moura, E Dias Quintela and SM dos Santos. *Empoasca kraemer* [Hemiptera: Cicadellidae]. 16 Jul 1988. Brazil: Caucaia, Ceará.
- 2653 [CNPAF 88-07-16-14; CP 265] DW Roberts ← EC de Moura, E Dias Quintela and SM dos Santos. *Empoasca kraemer* [Hemiptera: Cicadellidae]. 16 Jul 1988. Brazil: Caucaia, Ceará.
- 2654 [CNPAF 88-07-16-15; CP 266] DW Roberts ← EC de Moura, E Dias Quintela and SM dos Santos. *Empoasca kraemer* [Hemiptera: Cicadellidae]. 16 Jul 1988. Brazil: Caucaia, Ceará.
- 2655 [CNPAF 88-07-16-16; CP 267] DW Roberts ← EC de Moura, E Dias Quintela and SM dos Santos. *Empoasca kraemer* [Hemiptera: Cicadellidae]. 16 Jul 1988. Brazil: Caucaia, Ceará.
- 2656 [CNPAF 88-07-16-17; CP 268] DW Roberts ← EC de Moura, E Dias Quintela and SM dos Santos. *Empoasca kraemer* [Hemiptera: Cicadellidae]. 16 Jul 1988. Brazil: Caucaia, Ceará.
- 2657 [CNPAF 88-07-16-18; CP 269] DW Roberts ← EC de Moura, E Dias Quintela and SM dos Santos. *Empoasca kraemer* [Hemiptera: Cicadellidae]. 16 Jul 1988. Brazil: Caucaia, Ceará.
- 2939 M Skinner (Ch, BG and 60(5WM)) ← JF Yuill. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. Sep 1989. USA: Buel's Grove, Chittenden County, Vermont.
- 2940 M Skinner (Ch, BG and 61(8WM)) ← JF Yuill. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. Sep 1989. USA: Buel's Grove, Chittenden County, Vermont.
- 2992 [ARSEF 2649; CNPAF 88-07-16-10; CP 261] L Allee ← EC de Moura (H-10), E Dias Quintela and SM dos Santos. *Empoasca kraemer* [Hemiptera: Cicadellidae]. 16 Jul 1988. Brazil: Caucaia, Ceará.
- 3266 M Brownbridge (P). Brown larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 12 Dec 1990. USA: Hamden, Connecticut.
- 3318 M Brownbridge (Perry 1). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. Rec'd 19 Mar 1991. USA: Perry's sugar maple stand, Orange County, Vermont.
- 3546 M Brownbridge (R-4). Larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 20 Nov 1991. USA: Laggis' sugar maple stand, Caledonia County, Vermont.
- 3548 M Brownbridge (R-9). Larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 20 Nov 1991. USA: Perry's sugar maple stand, Orange County, Vermont.
- 3553 M Brownbridge (R-15). Yellow mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 26 Nov 1991. USA: Rowe's sugar maple stand, Caledonia County, Vermont.
- 4193 LA Lacey (94023). *Thrips palmi* [Thysanoptera: Thripidae]. Rec'd 12 May 1994. Trinidad and Tobago.
- 4511 [IIBC IMI337439] HC Evans (IMI337439) ← C Prior. [Hemiptera]. 1990. Trinidad.
- 4513 [IIBC I88-370] HC Evans (I88-370). *Liothrips mikaniae* [Thysanoptera: Phlaeothripidae] Mikania micrantha. Feb 1988. Trinidad.
- 4514 [IIBC I88-399] HC Evans (I88-399). *Liothrips mikaniae* [Thysanoptera: Phlaeothripidae] Mikania micrantha. Jul 1988. Trinidad.
- 4515 [IIBC I88-375] HC Evans (I88-375). *Lydda* sp. [Hemiptera: Derbidae] Coconut. Feb 1988. Tanzania.
- 8378 AV Toledo. Adult, *Oliarus dimidiatus* [Hemiptera: Cixiidae] on *Amaranthus quitensis* Kunth bordering rice field. 14 Feb 2007. Argentina: Los Hornos, Buenos Aires.
- 9605 H Cortez Madrigal. *Diaphorina citri* [Hemiptera: Psyllidae]. Rec'd 5 Mar 2010. Mexico: Mérida, Yucatán.
- 9606 H Cortez Madrigal (3). *Diaphorina citri* [Hemiptera: Psyllidae] on *Murraya paniculata* (L.) Jack, limonaria. Rec'd 5 Mar 2010. Mexico: Mérida, Yucatán.
- 11755 A Guzman-Franco (15(3)) ← N Orduño Cruz. *Diaphorina citri* [Hemiptera: Psyllidae] on *Citrus sinensis* var. Valencia. 27 Oct 2011. Mexico: Champotón, Campeche.
- 11757 A Guzman-Franco (15(6)) ← N Orduño Cruz. *Diaphorina citri* [Hemiptera: Psyllidae] on *Citrus sinensis* var. Valencia. 27 Oct 2011. Mexico: Champotón, Campeche.
- 11758 A Guzman-Franco (31(8)) ← N Orduño Cruz. *Diaphorina citri* [Hemiptera: Psyllidae] on *Citrus sinensis* var. Valencia. 25 Oct 2011. Mexico: Dzan, Yucatán.

- 11759 A Guzman-Franco (27(6)) ← N Orduño Cruz. *Diaphorina citri* [Hemiptera: Psyllidae] on *Citrus sinensis* var. Valencia. 25 Oct 2011. Mexico: Dzan, Yucatán.
- 11760 A Guzman-Franco (y(1)) ← H Cortez Madrigal. *Diaphorina citri* [Hemiptera: Psyllidae] on *Citrus sinensis* var. Valencia. 11 Jun 2011. Mexico: Dzan, Yucatán.
- 11761 A Guzman-Franco (p(9)) ← H Cortez Madrigal. *Diaphorina citri* [Hemiptera: Psyllidae] on *Citrus sinensis* var. Valencia. 14 Jun 2011. Mexico: Othón P. Blanco, Quintana Roo.
- Hirsutella citriformis* Speare**
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae
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- 490 RS Soper. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 532 DW Roberts (82180-2a). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 21 Aug 1980. Indonesia: Tanjungkarang, Lampung, Sumatra.
- 591 RS Soper (81226-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 26 Feb 1981. Indonesia: Bantul District, Yogyakarta, Java.
- 684 DW Roberts (102981-2). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1981. Philippines: Los Baños, Manila.
- 1035 [ARSEF 1446] CBS (418.82). *Myndus crudus* [Hemiptera: Cixiidae]. 1979. USA: Fort Pierce, Florida.
- 1036 CBS (912.70) ← E Müller-Kögler ← SL Valencia. *Nilaparvata lugens* [Hemiptera: Delphacidae] on rice. Nov 1970. Philippines: IRRI, Los Baños, Manila.
- 1062 [IRRI 10B] RM Aguda. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Oct 1983. Philippines: IRRI, Los Baños, Manila.
- 1063 [IRRI 10A] RM Aguda. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Oct 1983. Philippines: IRRI, Los Baños, Manila.
- 1064 [IRRI GA] RM Aguda. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Oct 1983. Philippines: IRRI, Los Baños, Manila.
- 1243 [IRRI 1A] MC Rombach ← DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd Mar 1984. Philippines.
- 1244 [IRRI 1B] MC Rombach ← DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd Mar 1984. Philippines.
- 1245 [IRRI 1C] MC Rombach ← DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd Mar 1984. Philippines.
- 1246 [IRRI 2D] MC Rombach ← DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd Mar 1984. Philippines.
- 1249 [IRRI 2J] MC Rombach ← DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd Mar 1984. Philippines.
- 1251 [IRRI 3C(2)] MC Rombach ← DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd Mar 1984. Philippines.
- 1252 [IRRI 3F] MC Rombach ← DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd Mar 1984. Philippines.
- 1253 [IRRI 3G] MC Rombach ← DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd Mar 1984. Philippines.
- 1254 [IRRI 4B(a)] MC Rombach ← DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd Mar 1984. Philippines.
- 1255 [IRRI 4B] MC Rombach ← DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd Mar 1984. Philippines.
- 1256 [ARSEF ?1096; IRRI 4A] MC Rombach ← DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd Mar 1984. Philippines.
- 1257 [IRRI 4C] MC Rombach ← DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd Mar 1984. Philippines.
- 1258 [IRRI 5B] MC Rombach ← DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd Mar 1984. Philippines.
- 1259 [IRRI 5C] MC Rombach ← DW Roberts. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd Mar 1984. Philippines.
- 1436 MC Rombach (10B). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 1984. Philippines: IRRI field, Los Baños, Manila.
- 1446 [ARSEF 1035; CBS 418.82] MC Rombach. *Myndus crudus* [Hemiptera: Cixiidae]. 1979. USA: Fort Pierce, Florida.
- 1549 MC Rombach (H.min.) ← BM Shepard. *Nilaparvata lugens* [Hemiptera: Delphacidae] on rice. Jun 1984. Philippines: Mindanao.
- 1550 MC Rombach (H.Pal.). *Nilaparvata lugens* [Hemiptera: Delphacidae] on rice. Jun 1984. Philippines: Brooke's Point region, Palawan.
- 1837 DW Roberts (H.citrif) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 2 Nov 1984. Sri Lanka: greenhouse colony, Central Agricultural Research Institution, Gannoruwa (Peradeniya).
- 1913 DW Roberts (040485-6). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 4 Apr 1985. Solomon Islands: nr. Honiara, Guadalcanal.
- 1917 DG Holdom (10). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 7 Mar 1985. Indonesia: nr. Jakarta, Jawa Barat, Java.
- 1918 DG Holdom (11). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 7 Mar 1985. Indonesia: nr. Jakarta, Jawa Barat, Java.

- 1919 DG Holdom (12). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 7 Mar 1985. Indonesia: nr. Jakarta, Jawa Barat, Java.
 - 2099 DG Holdom (280186-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 28 Jan 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
 - 2100 DG Holdom (280186-2). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 28 Jan 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
 - 2101 DG Holdom (280186-3). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 28 Jan 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
 - 2102 DG Holdom (280186-4). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 28 Jan 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
 - 2103 DG Holdom (280186-5). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 28 Jan 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
 - 2346 [ARSEF 2388 (never frozen)] MC Rombach (111286-4). *Nilaparvata lugens* [Hemiptera: Delphacidae] on rice. 11 Dec 1986. Indonesia: nr. Klaten, Jawa Tengah, Java.
 - 2347 [ARSEF 2389 (never frozen)] MC Rombach (181286-1B). *Heteropsylla cubana* [Hemiptera: Psyllidae]. 18 Dec 1986. Philippines: Leyte.
 - 2420 DG Holdom (050187-1) ← D Djuriadi. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 Jan 1987. Indonesia: Purwakerto, Jawa Barat, Java.
 - 2422 DG Holdom (310187-4) ← D Djuriadi. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 31 Jan 1987. Indonesia: Purwakerto, Jawa Barat, Java.
 - 2423 DG Holdom (310187-5) ← D Djuriadi. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 31 Jan 1987. Indonesia: Purwakerto, Jawa Barat, Java.
 - 2426 DG Holdom (080287-3). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 8 Feb 1987. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
 - 2428 DG Holdom (170287-1). Nymph, [Hemiptera: Delphacidae]. 17 Feb 1987. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
 - 2598 MC Rombach ← LT Villacarlos. *Heteropsylla cubana* [Hemiptera: Psyllidae]. 1987. Philippines: Visayas, Leyte.
 - 8315 JM Meyer. Adult, *Diaphorina citri* [Hemiptera: Psyllidae] on orange and grapefruit trees. Oct 2005. USA: Polk County, Florida.
 - 9180 DG Boucias. Adult, *Diaphorina citri* [Hemiptera: Psyllidae]. Jul 2008. USA: Immokalee, Florida.
 - 11665 DG Boucias (UF1HcDc03). *Diaphorina citri* [Hemiptera: Psyllidae]. 2007. USA: Collier County, Florida.
- Hirsutella cryptosclerotium*** Fernández-García, HC
 Evans & Samson
 [Sordariomycetes: Hypocreales]
 Ophiocordycipitaceae
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- 4517 [IIBC I91-602] HC Evans (I91-602). *Rastrococcus invadens* [Hemiptera: Pseudococcidae]. Mar 1991. Togo.
- Hirsutella guyana*** Minter & Brady
 [Sordariomycetes: Hypocreales]
 Ophiocordycipitaceae
-
- 878 [CNPAF 83-04-13-2L; CP 108] BP Magalhães and DW Roberts. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 13 Apr 1983. Brazil: Goianinha, Rio Grande do Norte.
 - 879 [CNPAF 83-04-13-2P; CP 109] BP Magalhães and DW Roberts. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 13 Apr 1983. Brazil: Goianinha, Rio Grande do Norte.
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 - 882 [CNPAF 83-04-13-Q; CP 112] BP Magalhães and DW Roberts. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 13 Apr 1983. Brazil: Goianinha, Rio Grande do Norte.
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 - 2387 [ARSEF 2352] MC Rombach (201286-2). [Hemiptera: Cicadellidae] on *Maoutia* sp. 20 Dec 1986. Philippines: rainforest, Mt. Makiling, Los Baños, Manila.
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- Hirsutella illustris*** Minter & Brady
 [Sordariomycetes: Hypocreales]
 Ophiocordycipitaceae
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Hirsutella lecaniicola (Jaap) Petch
[Sordariomycetes: Hypocreales]

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2007. USA: Vermont.

Hirsutella repens (nom. prov.)
[Sordariomycetes: Hypocreales]

Ophiocordycipitaceae. Provisional name for unpublished
new species.

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Aguda. *Nilaparvata lugens* [Hemiptera: Delphacidae].
Aug 1986. Republic of Korea.
- 2359 [ARSEF 2348, 2394] MC Rombach (090586-1) ← RM
Aguda. *Nilaparvata lugens* [Hemiptera: Delphacidae].
Aug 1986. Republic of Korea.
- 2394 [ARSEF 2348, 2359] MC Rombach (090586-1) ← RM
Aguda. *Nilaparvata lugens* [Hemiptera: Delphacidae].
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Hirsutella rhossiliensis Minter & Brady
[Sordariomycetes: Hypocreales]

Ophiocordycipitaceae. Synonym: *Hirsutella heteroderae*
Sturhan & Schneider

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[Thysanoptera: Thripidae]. 2011. USA: Langdon,
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Hirsutella strigosa Petch
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae

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lugens [Hemiptera: Delphacidae]. 7 Nov 1985. Philip-
pines: greenhouse colony, IRRI, Los Baños, Manila.
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[Hemiptera: Cicadellidae]. 9 Jun 1986. Philippines:
IRRI field, Los Baños, Manila.

Hirsutella versicolor Petch
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae

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Evans. [Hemiptera: Membracidae] on forest herb. Jul
1982. Brazil: Jari-Monte Dourado, Pará.
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dae] on cacao leaf together with *Torrubiella pruinosa*.
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lus [Hemiptera: Cicadellidae]. 1990. Malaysia.

Hirsutella verticillioides Charles
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae

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chypealis [Hemiptera: Cicadellidae] on Indian mango,

Mangifera indica L. Acc'd 12 Sep 1988. Philippines:
Umali Subdivision, Los Baños, Manila.

Hypocrella discoidea (Berkeley & Broome) Saccardo
[Sordariomycetes: Hypocreales]
Clavicipitaceae

- 7681 [BCC 2097] P Chaverri. [Hemiptera: Coccoidea].
Rec'd Mar 2005. Thailand: Northeastern Thailand.

Hypocrella javanica (Penzig & Saccardo) Petch
[Sordariomycetes: Hypocreales]
Clavicipitaceae

- 7605 [BCC 2339] [Hemiptera: Coccoidea] underside of
dicot leaf. Rec'd 20 Sep 2004. Thailand: Northern
Thailand.

Hypocrella panamensis Torres, White & Bischoff
[Sordariomycetes: Hypocreales]
Clavicipitaceae

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tera: Coccoidea] on *Piper carrilloanum* C. DC. Aug
2003. Panama: Lutz Creek, Barro Colorado Island.
CULTURE EX TYPE.

Hypocrella raciborskii Zimmermann
[Sordariomycetes: Hypocreales]
Clavicipitaceae

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2004. Thailand: Northeastern Thailand.

***Isaria* sp.**
[Sordariomycetes: Hypocreales]
Cordycipitaceae

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[Hemiptera: Psyllidae]. 8 Jul 2003. Russian Federa-
tion: Vladivostok, Primorsky Krai. Field Collection
Number F-331.
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niothrips inconsequens [Thysanoptera: Thripidae].
2010. USA: Sharon Springs, New York.
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niothrips inconsequens [Thysanoptera: Thripidae].
2010. USA: Underhill, Vermont.
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niothrips inconsequens [Thysanoptera: Thripidae].
2010. USA: Rupert, Vermont.
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niothrips inconsequens [Thysanoptera: Thripidae].
2010. USA: Rupert, Vermont.
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Iran.
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Eurygaster sp. [Hemiptera: Scutelleridae]. 2002.
Iran.

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 - 11633 [ERL 559] BL Parker (SP-568) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
 - 11634 [ERL 560] BL Parker (SP-571) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
 - 11635 [ERL 564] BL Parker (SP-583) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
 - 11636 [ERL 565] BL Parker (SP-584) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- Isaria farinosa* (Holmsk.) Fries**
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Paecilomyces farinosus* (Holmsk. ex Gray) Brown & Smith. Reclassified during a phylogenetically necessary reclassification of *Paecilomyces* Section *Isarioidea*. Teleomorph: *Cordyceps memorabilis* Ces.
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- 3576 TJ Poprawski (6). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Feb 1992. USA: cabbage field, McAllen, Texas.
- 3578 TJ Poprawski (8). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Feb 1992. USA: cabbage field, McAllen, Texas.
- 3579 TJ Poprawski (9). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Feb 1992. USA: cabbage field, McAllen, Texas.
- 3580 TJ Poprawski (10). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Feb 1992. USA: cabbage field, McAllen, Texas.
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- 3586 SP Wraight (17). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Feb 1992. USA: cabbage field, McAllen, Texas.
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- 3588 SP Wraight (19). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Feb 1992. USA: cabbage field, McAllen, Texas.
- 3589 SP Wraight (20). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Feb 1992. USA: cabbage field, McAllen, Texas.
- 3591 TJ Poprawski (22). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Feb 1992. USA: cabbage field, McAllen, Texas.
- 3592 TJ Poprawski (23). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Feb 1992. USA: cabbage field, McAllen, Texas.
- 3593 TJ Poprawski (24). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Feb 1992. USA: cabbage field, McAllen, Texas.
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- 3661 TJ Poprawski (44). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on vine. 28 Jan 1992. USA: Heber, California.
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- 5082 LA Lacey (95072). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5083 LA Lacey (95073). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
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- 5774 BL Parker (μ H 2). *Adelges tsugae* [Hemiptera: Adelgidae]. Spring 1997. USA: Russell, Massachusetts.
- 5775 BL Parker (HWA 1). *Adelges tsugae* [Hemiptera: Adelgidae]. 20 Feb 1997. USA: Mt. Tom, Holyoke, Massachusetts.
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- 5792 BL Parker (HWA 175). *Adelges tsugae* [Hemiptera: Adelgidae]. 10 Apr 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 5797 BL Parker (HWA 303). *Adelges tsugae* [Hemiptera: Adelgidae]. Oct 1997. USA: Russell, Massachusetts.

- 5799 BL Parker (HWA 305). *Adelges tsugae* [Hemiptera: Adelgidae]. Oct 1997. USA: Forest Park, Massachusetts.
- 5800 BL Parker (HWA 306). *Adelges tsugae* [Hemiptera: Adelgidae]. Oct 1997. USA: Russell, Massachusetts.
- 5801 BL Parker (HWA 308). *Adelges tsugae* [Hemiptera: Adelgidae]. Oct 1997. USA: Russell, Massachusetts.
- 5802 BL Parker (HWA 309). *Adelges tsugae* [Hemiptera: Adelgidae]. Oct 1997. USA: Russell, Massachusetts.
- 5826 BL Parker (AT 157). *Adelges tsugae* [Hemiptera: Adelgidae]. 16 Oct 1997. USA: Guilford, Connecticut.
- 5827 BL Parker (AT 159). *Adelges tsugae* [Hemiptera: Adelgidae]. 16 Oct 1997. USA: Guilford, Connecticut.
- 5830 BL Parker (HWA 307). *Adelges tsugae* [Hemiptera: Adelgidae]. Oct 1997. USA: Forest Park, Massachusetts.
- 6012 BL Parker ← V Gouli (SPT-R-160). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6017 BL Parker ← V Gouli (SPT-R-175). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6020 BL Parker ← V Gouli (SPT-R-185(b)). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6028 BL Parker (AT-C-218). 2nd instar, *Adelges tsugae* [Hemiptera: Adelgidae]. 30 Oct 1998. PR China: Site 3, Tree Number 6, Sichuan Province.
- 6029 BL Parker (AT-C-234). 2nd instar, *Adelges tsugae* [Hemiptera: Adelgidae]. 29 Oct 1998. PR China: Site 1, Tree Number 3, Sichuan Province.
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- 6036 BL Parker (AT-C-286). 2nd instar, *Adelges tsugae* [Hemiptera: Adelgidae]. 30 Oct 1998. PR China: Site 3, Tree Number 8, Sichuan Province.
- 6037 BL Parker (AT-C-287). 2nd instar, *Adelges tsugae* [Hemiptera: Adelgidae]. 30 Oct 1998. PR China: Site 3, Tree Number 11, Sichuan Province.
- 6038 BL Parker (AT-C-288). 2nd instar, *Adelges tsugae* [Hemiptera: Adelgidae]. 29 Oct 1998. PR China: Site 1, Tree Number 14, Sichuan Province.
- 6044 BL Parker ← V Gouli (SPT-R-172). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6048 BL Parker (AT-C-293). Aestivating 2nd instar, *Adelges tsugae* [Hemiptera: Adelgidae]. 29 Oct 1998. PR China: Site 1, Sichuan Province.
- 6049 BL Parker (AT-C-294). Aestivating 2nd instar, *Adelges tsugae* [Hemiptera: Adelgidae]. 29 Oct 1998. PR China: Site 1, Sichuan Province.
- 6097 BL Parker (SPT-U-341). Adult, *Aelia* sp. [Hemiptera: Pentatomidae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6098 BL Parker (SPT-U-343). Adult, *Aelia* sp. [Hemiptera: Pentatomidae]. 16 Jan 1999. Uzbekistan: Site a, SW of Samarkand, Mirankul region.
- 6222 JL Hatting. *Diuraphis noxia* [Hemiptera: Aphididae]. 21 Jun 1999. South Africa: Small Grain Institute Greenhouse aphid colony, Bethlehem, Free State.
- 6288 S Farrokhi (PPDRI 3). *Eurygaster integriceps* [Hemiptera: Scutelleridae]. Dec 1998. Iran: Isfahan, Esfahan.
- 6481 BL Parker (SPT-KZ-400). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:**
- contact Curator*
- 6490 BL Parker (SPT-KZ-420). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 4 Feb 2000. Kazakhstan: GPS Coordinates N 43°22.366' E 077°20.486'. **RESTRICTED ACCESS:**
- contact Curator*
- 6493 BL Parker (SPT-KZ-428). Adult, *Aelia* sp. [Hemiptera: Pentatomidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:**
- contact Curator*
- 6495 BL Parker (SPT-KZ-432). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:**
- contact Curator*
- 6496 BL Parker (SPT-KZ-440). Adult, [Hemiptera: Lygaeidae] overwintering in soil. 4 Feb 2000. Kazakhstan: GPS Coordinates N 43°22.366' E 077°20.486'. **RESTRICTED ACCESS:**
- contact Curator*
- 6497 BL Parker (SPT-KZ-443). Adult, *Aelia* sp. [Hemiptera: Pentatomidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:**
- contact Curator*

- 6607 JL Hatting (Sample B). [Hemiptera: Miridae] on *Aspalathus contaminatus*, Rooibos tea. . 4 Aug 1999. South Africa: Site grid reference S 31° 47' 37.5" E 8° 41' 02.2", Clanwilliam, Cape Province.
- 6609 JL Hatting (Lesotho A). *Diuraphis noxia* [Hemiptera: Aphididae]. 31 Jan 2000. Lesotho: Sehlabathebe.
- 6983 [PPRI 7071] JL Hatting. *Diuraphis noxia* [Hemiptera: Aphididae]. 10 Aug 2001. South Africa: ARC-Small Grain Institute Greenhouse, Bethlehem, Free State.
- 9513 [SRCAMB B-679] V Likhovidov ← BA Borisov. [Hemiptera: Coccidae]. 8 Jul 2005. Ukraine: Kiev. Field Collection Number F-746.
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- 10157 [ERL 1817] S Gouli and V Gouli (Thr.-10-19). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Richford, Vermont.
- 10158 [ERL 1818] S Gouli (Thr.-10-20) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10159 [ERL 1819] S Gouli and V Gouli (Thr.-10-21). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10161 [ERL 1821] S Gouli and V Gouli (Thr.-10-23). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 11822 [ERL 2019] S Gouli and V Gouli (THR-11-11). [Thysanoptera: Thripidae]. 2011. USA: Underhill, Vermont.
- 11823 [ERL 2035] S Gouli and V Gouli (THR-11-24). [Thysanoptera: Thripidae]. 2011. USA: Langdon, New Hampshire.
- 11833 [ERL 2045] S Gouli and V Gouli (THR-11-34). [Hemiptera: Pentatomidae]. 2011. USA: Westfield, Vermont.
- Isaria farinosa*(?)** (Holmsk.) Fries
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Current name: *Isaria farinosa* (Holm:Fries) Fries nom. conserv.
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- 7219 [SRCAMB B-298] V Likhovidov ← BA Borisov. [Hemiptera: Psyllidae]. 8 Jul 2003. Russian Federation: Vladivostok, Primorsky Krai. Field Collection Number F-331.
- Isaria fumosorosea*** Wize
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Paecilomyces fumosoroseus* (Wize) Brown & Smith. Reclassified during a phylogenetically necessary reclassification of *Paecilomyces* Section *Isarioidea*.
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- 1532 TJ Poprawski (0127B(bis)). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. Italy: Orvieto, Umbria.
- 2175 MC Rombach (130586-3). *Heteropsylla incisa* [Hemiptera: Psyllidae]. 13 May 1986. Philippines: VISCA demonstration farm, nr. Baybay, Leyte.
- 2198 MC Rombach (161285-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 16 Dec 1985. Philippines: IRRI farm, Los Baños, Manila.
- 2247 LS Osborne (UK-1). *Phenacoccus solani* [Hemiptera: Pseudococcidae] on *Gynura* sp. Acc'd 6 Oct 1986. USA: Mid-Florida Research & Education Center, Greenhouse 3, Apopka, Florida.
- 2658 DG Boucias. *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae]. Acc'd Dec 1988. USA: greenhouse, Gainesville, Florida.
- 3076 BM Cawley ← R Hernandez-Armenta. Immature, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on shade house-grown *Gerbera* sp. 10 Jul 1990. USA: Naples, Florida.
- 3083 AD Ali. *Bemisia tabaci* [Hemiptera: Aleyrodidae] on *Gerbera* sp. Rec'd 12 Sep 1990. USA: nursery, nr. Alva, Florida.
- 3313 J Gutierrez Samperio (29) ← ERD Reyes. *Bemisia* sp. [Hemiptera: Aleyrodidae] on watermelon. 1990. Mexico: Tecomán, Colima.
- 3322 Yoder Bros. Inc (F2-4 BR). *Bemisia tabaci* [Hemiptera: Aleyrodidae] on *Gerbera* sp. Dec 1990. USA: Fort Myers, Florida.
- 3408 AD Ali. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 6 Apr 1992. Location not specified. selected for resistance to benomyl at recommended field strength.
- 3429 K Ostrovska (51). [Hemiptera: Pentatomidae]. 25 Sep 1991. Costa Rica: Carrara.
- 3458 AD Ali. *Myzus persicae* [Hemiptera: Aphididae]. Rec'd 6 Apr 1992. Location not specified.
- 3581 SP Wraight (11). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Feb 1992. USA: cabbage field, McAllen, Texas.
- 3590 TJ Poprawski (21). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Feb 1992. USA: cabbage field, McAllen, Texas.
- 3594 TJ Poprawski (25). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Feb 1992. USA: cabbage field, McAllen, Texas.
- 3660 TJ Poprawski (43). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on hibiscus. 28 Jan 1992. USA: Calexico, California.
- 3662 TJ Poprawski (45). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on hibiscus. 28 Jan 1992. USA: Calexico, California.
- 3663 TJ Poprawski (48). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on orchid tree. 28 Jan 1992. USA: Calexico, California.

- 3682 LS Osborne (PFR-97). [Hemiptera: Aphididae]. Rec'd Apr 1992. USA: Central Florida Research and Education Center, Apopka, Florida. With identification as PFR-97, this is the basis for commercialized biocontrol products registered by the US Environmental Protection Agency.
- 3699 LA Lacey (Ma17). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 7 Apr 1992. India: Padappai.
- 3700 LA Lacey (Ma18). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on eggplant. 10 Apr 1992. India: Padappai.
- 3800 ERD Reyes (PF4). Adult, *Bemisia* sp. [Hemiptera: Aleyrodidae] watermelon. 6 Jan 1991. Mexico: Colima.
- 3824 [ATCC 24318; FPMI 961] N Underwood (ARSEF3682). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd Jan 1993. Laboratory manipulation.
- 3843 LA Lacey (Pfr19). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] ?. Apr 1992. India: Padappai.
- 3848 LA Lacey (92112). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cotton. 4 Oct 1992. Pakistan: Multan.
- 3851 LA Lacey (92123). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cotton. 16 Oct 1992. Pakistan: Multan.
- 3878 LA Lacey (92118) ← D Shakeel. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 11 Oct 1992. Pakistan: Multan.
- 3889 A Hara ← LS Osborne. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 22 Feb 1993. USA: Island of Hawaii, Hawaii.
- 4205 LA Lacey (94036). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] Sonchus. 24 Mar 1994. Malaysia: Kuala Terla.
- 4383 LA Lacey (94009) ← A Farices (34). *Diuraphis noxia* [Hemiptera: Aphididae]. 19 Jan 1994. France: La Valette.
- 4400 LA Lacey (94097). [Hemiptera: Aphididae] eggplant. 24 Mar 1994. Malaysia: Kuala Terla.
- 4401 LA Lacey (94061). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] eggplant. 24 Mar 1994. Malaysia: Kuala Terla.
- 4404 LA Lacey (94029). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] Sonchus. 24 Mar 1994. Malaysia: Kuala Terla.
- 4406 LA Lacey (94065). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] Sonchus. 24 Mar 1994. Malaysia: Kuala Terla.
- 4407 LA Lacey (94068). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] Sonchus. 24 Mar 1994. Malaysia: Kuala Terla.
- 4408 LA Lacey (94069). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] Sonchus. 24 Mar 1994. Malaysia: Kuala Terla.
- 4409 LA Lacey (94070). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] Sonchus. 24 Mar 1994. Malaysia: Kuala Terla.
- 4410 LA Lacey (94071). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] Sonchus. 24 Mar 1994. Malaysia: Kuala Terla.
- 4411 LA Lacey (94072). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] Sonchus. 24 Mar 1994. Malaysia: Kuala Terla.
- 4413 LA Lacey (94075). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] Sonchus. 24 Mar 1994. Malaysia: Kuala Terla.
- 4414 LA Lacey (94076). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] Sonchus. 24 Mar 1994. Malaysia: Kuala Terla.
- 4415 LA Lacey (94077). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] Sonchus. 24 Mar 1994. Malaysia: Kuala Terla.
- 4459 [ARSEF 3699] J McManus (DnPfu193Pss1). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 14 Jun 1994. Laboratory manipulation: USPSNL; Ithaca, NY. Single spore isolate from formulated ARSEF 3699. Passed through *Diuraphis noxia* 12 May 94.
- 4460 [ARSEF 3699] J McManus (DnPfu193Pss2). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 14 Jun 1994. Laboratory manipulation: USPSNL; Ithaca, NY. Single spore isolates from formulated ARSEF 3699. Passed through RWA 5/12/94.
- 4461 [ARSEF 3699] J McManus (DnPfu193Pss3). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 14 Jun 1994. Laboratory manipulation: USPSNL; Ithaca, NY. Single spore isolate from formulated ARSEF 3699. Passed through *Diuraphis noxia* 12 May 94.
- 4482 LA Lacey (92133) ← A Kirk. Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 19 Sep 1992. Nepal: Katmandu.
- 4483 LA Lacey (92134) ← A Kirk. Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 19 Sep 1992. Nepal: Katmandu.
- 4484 LA Lacey (92135) ← A Kirk. Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 19 Sep 1992. Nepal: Katmandu.
- 4485 LA Lacey (92136) ← A Kirk. Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 19 Sep 1992. Nepal: Katmandu.
- 4486 LA Lacey (92138) ← A Kirk. Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 19 Sep 1992. Nepal: Katmandu.
- 4490 LA Lacey (Ma8). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 7 Apr 1992. India: Padappai.
- 4491 LA Lacey (Ma17). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 7 Apr 1992. India: Padappai.
- 4492 LA Lacey (Ma18). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 7 Apr 1992. India: Padappai.
- 4493 LA Lacey (Ma19). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 7 Apr 1992. India: Padappai.
- 4494 LA Lacey (Ma20). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 7 Apr 1992. India: Padappai.

- 4495 LA Lacey (Ma21). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 7 Apr 1992. India: Padappai.
- 4496 LA Lacey (Ma22). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 7 Apr 1992. India: Padappai.
- 4497 LA Lacey (Ma27). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 7 Apr 1992. India: Padappai.
- 4498 LA Lacey (92111). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 14 Oct 1992. Pakistan: Multan.
- 4499 LA Lacey (992114). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 14 Oct 1992. Pakistan: Multan.
- 4501 LA Lacey (992117). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 14 Oct 1992. Pakistan: Multan.
- 4502 LA Lacey (92118). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 14 Oct 1992. Pakistan: Multan.
- 4503 LA Lacey (992119). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 14 Oct 1992. Pakistan: Multan.
- 4698 J McManus (DnPfu28 and 96009ss#1.3Pss#1) ← LA Lacey (96009). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York.
- 4699 J McManus (DnPfu29 and 2198.3P) ← ARSEF (2198). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. ARSEF 2198 passed through and reisolated from RWA.
- 4700 J McManus (DnPfu28 and 2749.3Pss#1) ← ARSEF (2749). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. ARSEF 2749 passed through and reisolated from RWA.
- 4701 J McManus (DnPfu28 and 3889.3Pss#1). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. ARSEF 3889 passed through and reisolated from RWA.
- 4702 J McManus (DnPfu29 and 4460.3Pss#1) ← ARSEF (4460). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. ARSEF 4460 passed through and reisolated from RWA.
- 4703 Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. ARSEF 4460 passed through and reisolated from RWA.
- 4704 J McManus (DnPfu29 and 4480.3P) ← ARSEF (4480). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. ARSEF 4480 passed through and reisolated from RWA.
- 4705 J McManus (DnPfu28 and 4481.3Pss#1) ← ARSEF (4481). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. ARSEF 4481 passed through and reisolated from RWA.
- 4706 J McManus (DnPfu28 and 4482.3Pss#1). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. ARSEF 4482 passed through and reisolated from RWA.
- 4707 J McManus (DnPfu29 and 4487.3P). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. ARSEF 4487 passed through and reisolated from RWA.
- 4708 J McManus (DnPfu29 and 4489.3P) ← ARSEF (4489). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. ARSEF 4489 passed through and reisolated from RWA.
- 4709 J McManus (DnPfu29 and 4491.3P) ← ARSEF (4491). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. ARSEF 4491 passed through and reisolated from RWA.
- 4710 J McManus (DnPfu29 and 4492.3P) ← ARSEF (4492). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. ARSEF 4492 passed through and reisolated from RWA.
- 4711 J McManus (DnPfu29 and 4493.3P) ← ARSEF (4493). Adult, *Diuraphis noxia* [Hemiptera: Aphididae]. 24 Aug 1994. USA: USPSNL. Lab. manipulation., Ithaca, New York. ARSEF 4493 passed through and reisolated from RWA.
- 5085 LA Lacey (95075). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5086 LA Lacey (95076). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5087 LA Lacey (95077). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5088 LA Lacey (95078). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5089 LA Lacey (95079). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5090 LA Lacey (95080). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5107 LA Lacey (95097). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5113 LA Lacey (95103). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5115 LA Lacey (95105). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5116 LA Lacey (95106). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5117 LA Lacey (95107). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5118 LA Lacey (95108). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.

- 5119 LA Lacey (95109). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5121 LA Lacey (95111). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5122 LA Lacey (95071). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5154 DR Sosa-Gómez (CNPSO-P77). *Bemisia argentifolii* [Hemiptera: Aleyrodidae]. 30 Jan 1996. Brazil: Primeiro de Maio, Paraná.
- 5155 DR Sosa-Gómez (CNPSO-P78). *Bemisia argentifolii* [Hemiptera: Aleyrodidae]. 30 Jan 1996. Brazil: Primeiro de Maio, Paraná.
- 5156 DR Sosa-Gómez (CNPSO-P79). *Bemisia argentifolii* [Hemiptera: Aleyrodidae]. 14 Mar 1996. Brazil: Primeiro de Maio, Paraná.
- 5157 DR Sosa-Gómez (CNPSO-P80). *Bemisia argentifolii* [Hemiptera: Aleyrodidae]. 14 Mar 1996. Brazil: Primeiro de Maio, Paraná.
- 5158 DR Sosa-Gómez (CNPSO-P81). *Bemisia argentifolii* [Hemiptera: Aleyrodidae]. 14 Mar 1996. Brazil: Primeiro de Maio, Paraná.
- 5159 DR Sosa-Gómez (CNPSO-P82). *Bemisia argentifolii* [Hemiptera: Aleyrodidae]. 14 Mar 1996. Brazil: Primeiro de Maio, Paraná.
- 5260 SARL (10) ← SP Wraight (SPW-16). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 18 Nov 1992. USA: Santa Maria, Texas.
- 5261 SARL (11) ← SP Wraight (SPW-17). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 18 Nov 1992. USA: Santa Maria, Texas.
- 5262 SARL (12) ← SP Wraight (SPW-18). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 18 Nov 1992. USA: Santa Maria, Texas.
- 5263 SARL (13) ← SP Wraight (SPW-19). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 18 Nov 1992. USA: Santa Maria, Texas.
- 5264 SARL (14) ← SP Wraight (SPW-20). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 18 Nov 1992. USA: Santa Maria, Texas.
- 5265 SARL (15) ← SP Wraight (SPW-21). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 18 Nov 1992. USA: Santa Maria, Texas.
- 5266 SARL (16) ← SP Wraight (SPW-22). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 18 Nov 1992. USA: Santa Maria, Texas.
- 5267 SARL (17) ← SP Wraight (SPW-23). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli leaf. 18 Nov 1992. USA: Santa Maria, Texas.
- 5268 SARL (18) ← SP Wraight (SPW-24). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli leaf. 18 Nov 1992. USA: Santa Maria, Texas. Many of the conidia seem a bit shorter and more ovoid than is usual for this species. Conidia in mass do have the gray/pink appearance expected of Pfr.
- 5269 SARL (19) ← SP Wraight (SPW-29). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cabbage leaf. 10 Feb 1993. USA: Santa Maria, Texas.
- 5270 SARL (20) ← SP Wraight (SPW-30). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cabbage leaf. 10 Feb 1993. USA: Santa Maria, Texas.
- 5271 SARL (21) ← SP Wraight (SPW-31). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cabbage leaf. 10 Feb 1993. USA: Santa Maria, Texas.
- 5272 SARL (30) ← SP Wraight ← LA Lacey (92119) ← APHIS (WFP-362). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 14 Oct 1992. Pakistan: Multan.
- 5297 [APHIS WFP-363] SARL (34) ← LA Lacey (92135) ← A Kirk. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 6 Oct 1996. Nepal: Katmandu.
- 5298 [APHIS WFP-362] SARL (35) ← LA Lacey (92118). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 14 Oct 1992. Pakistan: Multan.
- 5299 SARL (36) ← SP Wraight (LACEY 92115-Bt1) ← SARL (28). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 27 Aug 1996. Location not specified: Laboratory manipulation.
- 5300 SARL (37) ← SP Wraight (Lacey 92133-Bt1) ← SARL (29). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 27 Aug 1996. Location not specified: Laboratory manipulation.
- 5301 SARL (38) ← S Wraight (Lacey 92119-Bt1) ← SARL (30). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 27 Aug 1996. Location not specified: Laboratory manipulation.
- 5302 SARL (39) ← S Wraight (Lacey Ma19-Bt1) ← SARL (31). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 27 Aug 1996. Location not specified: Laboratory manipulation.
- 5303 SARL (40) ← SP Wraight (Lacey Ma21-Bt1). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 27 Aug 1996. Location not specified: Laboratory manipulation.
- 5304 SARL (42) ← SP Wraight (Lacey 92135-Bt1) ← SARL (34). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 27 Aug 1996. Location not specified: Laboratory manipulation.
- 5305 SARL (43) ← SP Wraight (Lacey 92118-Bt1) ← SARL (35). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 27 Aug 1996. Location not specified: Laboratory manipulation.
- 5307 SARL (45) ← SP Wraight. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Mar 1993. USA: Santa Maria, Texas.
- 5308 SARL (98) ← SP Wraight (SPW-34). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 26 Mar 1993. USA: Greenhouse, SARL, Weslaco, Texas.
- 5309 SARL (99) ← SP Wraight (SPW-35). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 26 Mar 1993. USA: Greenhouse, SARL, Weslaco, Texas.

- 5310 SARL (100) ← SP Wraight (SPW-36). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 26 Mar 1993. USA: Greenhouse, SARL, Weslaco, Texas.
- 5311 SARL (101) ← SP Wraight (SPW-37). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 26 Mar 1993. USA: Greenhouse, SARL, Weslaco, Texas.
- 5312 SARL (102) ← SP Wraight (SPW-38). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 26 Mar 1993. USA: Greenhouse, SARL, Weslaco, Texas.
- 5313 SARL (103) ← SP Wraight (SPW-39). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 26 Mar 1993. USA: Greenhouse, SARL, Weslaco, Texas.
- 5314 SARL (104) ← SP Wraight (SPW-40). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 26 Mar 1993. USA: Greenhouse, SARL, Weslaco, Texas.
- 5315 SARL (105) ← SP Wraight (SPW-41). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 26 Mar 1993. USA: Greenhouse, SARL, Weslaco, Texas.
- 5316 SARL (118) ← SP Wraight (3572-Bt-9) ← ARSEF (3572). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 10 Mar 1993. USA: Weslaco, Texas.
- 5317 SARL (119) ← SP Wraight (3572-Bt-10) ← ARSEF (3572). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 10 Mar 1993. USA: Weslaco, Texas.
- 5318 SARL (120) ← SP Wraight (3572-Bt-11) ← ARSEF (3572). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 10 Mar 1993. USA: Weslaco, Texas.
- 5319 SARL (121) ← SP Wraight (3572-Bt-12) ← ARSEF (3572). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 10 Mar 1993. USA: Weslaco, Texas.
- 5320 SARL (124) ← SP Wraight (SPW-50). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 8 Sep 1993. USA: Weslaco, Texas. Conidia seem a bit shorter and more ovoid than would be normal for this species and colony/conidial mass is a bit less colored than expected.
- 5322 SARL (126) ← SP Wraight (SPW-52) ← JA Correa. Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Soybean. 9 Sep 1993. USA: Rio Farm variety trial field, Monte Alto, Texas.
- 5323 SARL (127) ← SP Wraight (SPW-53) ← JA Correa. Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Soybean. 9 Sep 1993. USA: Rio Farm variety trial field, Monte Alto, Texas.
- 5324 SARL (128) ← SP Wraight (SPW-54) ← JA Correa. Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Soybean. 9 Sep 1993. USA: Rio Farm variety trial field, Monte Alto, Texas.
- 5325 SARL (129) ← SP Wraight (SPW-55). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Soybean. 9 Sep 1993. USA: Rio Farm variety trial field, Monte Alto, Texas.
- 5326 SARL (130) ← SP Wraight (SPW-56) ← JA Correa. Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Soybean. 9 Sep 1993. USA: Rio Farm variety trial field, Monte Alto, Texas.
- 5327 SARL (131) ← SP Wraight (3572-Bt-1) ← ARSEF (3572). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cotton. Rec'd 27 Aug 1996. USA: Phoenix, Arizona.
- 5328 SARL (132) ← SP Wraight (3572-Bt-2) ← ARSEF (3572). Nymph, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cotton. Rec'd 27 Aug 1996. USA: Phoenix, Arizona.
- 5329 SARL (145) ← SP Wraight (3572-Btx3) ← ARSEF (3572). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 27 Aug 1996. Location not specified: Laboratory manipulation.
- 5330 SARL (147) ← S Doerfler and B Flores ← TJ Poprawski. Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Okra. 6 Sep 1994. USA: Harlingen, Texas.
- 5331 SARL (149) ← S Doerfler, B Flores and TJ Poprawski. Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Okra. 6 Sep 1994. USA: Harlingen, Texas.
- 5462 TJ Poprawski (TJP927). 3rd instar larva, *Bemisia argentifolii* [Hemiptera: Aleyrodidae]. Rec'd 9 May 1997. USA: Weslaco, Texas. From Mycotech 612 prepared as freeze-dried blastospores.
- 5463 TJ Poprawski (TJP928). 3rd instar larva, *Bemisia argentifolii* [Hemiptera: Aleyrodidae]. Rec'd 9 May 1997. USA: Weslaco, Texas. From Mycotech 612 prepared as air-dried blastospores.
- 5464 TJ Poprawski (TJP929). 3rd instar larva, *Bemisia argentifolii* [Hemiptera: Aleyrodidae]. Rec'd 9 May 1997. USA: Weslaco, Texas. From Mycotech 612 prepared as fresh blastospores.
- 5475 LA Lacey (EBCL 92116). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 27 Sep 1992. Pakistan: Multan.
- 5476 LA Lacey (EBCL 92117). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 27 Sep 1992. Pakistan: Multan.
- 6434 DEN Rangel (JAB 11). Biotype B, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on cotton. Mar 1998. Brazil: Miguelópolis, São Paulo.
- 6435 DEN Rangel (JAB 12). Biotype B, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on poinsettia. 3 Sep 1999. Brazil: Glasshouse, FCAV/UNESP, Jaboticabal, São Paulo.
- 6562 D Chandler (HRI 402.93). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 13 Jul 2000. United Kingdom.
- 6789 FJ Posada (CEFC F-0001). Nymph & adult, [Hemiptera: Aphididae] on *Montanoa ovatifolia* (DC) Schultz-Bip., arboloco. May 2000. Colombia: Greenhouse, Chinchiná, Caldas.

- 6797 G Mercadier (EBCL 00049). *Bemisia* sp. [Hemiptera: Aleyrodidae]. 7 Aug 2000. Hong Kong: Tai Lung Experimental Station, Sheung Shui.
- 6798 G Mercadier (EBCL 00050). *Bemisia* sp. [Hemiptera: Aleyrodidae]. 7 Aug 2000. Hong Kong: Tai Lung Experimental Station, Sheung Shui.
- 6916 C López Lastra (2). Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Lycopersicon esculentum* Miller, tomato in covered greenhouses. 1 Jun 2001. Argentina: Colonia Urquiza, La Plata, Buenos Aires.
- 7050 C López Lastra. [Hemiptera: spf. Fulgoroidea]. Nov 2001. Argentina: La Plata, Buenos Aires.
- 7051 C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Lycopersicon esculentum* Miller, tomato crop. 23 Apr 2002. Argentina: Colonia Urquiza, La Plata, Buenos Aires.
- 7204 [CEP 051] C López Lastra. *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Apium graveolens* var. *dulce* (Miller) Pers., celery. 9 Apr 2003. Argentina: El Peligro, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 7205 [CEP 055] C López Lastra. *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Apium graveolens* var. *dulce* (Miller) Pers., celery. 9 Jun 2003. Argentina: El Peligro, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 8716 [CEP 302] CP D'Alessandro and C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae]. 22 May 2007. **RESTRICTED ACCESS:** consult Curator.
- 8717 [CEP 303] CP D'Alessandro and C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Apium graveolens* L., celery crop. 4 Jun 2007. Argentina: Quinta Marian del Pino, Abasto, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 8718 [CEP 304] CP D'Alessandro and C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Lycopersicon esculentum* Miller, tomato crop. 3 Oct 2007. Argentina: Quinta Marcelo Maita, Colonia Urquiza, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 8719 [CEP 305] CP D'Alessandro and C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Lycopersicon esculentum* Miller, tomato crop. 3 Oct 2007. Argentina: Quinta Marcelo Maita, Colonia Urquiza, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 8720 [CEP 306] CP D'Alessandro and C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Lycopersicon esculentum* Miller, tomato crop. 10 Oct 2007. Argentina: Quinta Marcelo Maita, Colonia Urquiza, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 8721 [CEP 307] CP D'Alessandro and C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Lycopersicon esculentum* Miller, tomato crop. 16 Oct 2007. Argentina: Quinta Marcelo Maita, Colonia Urquiza, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 8723 [CEP 308] CP D'Alessandro and C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Phaseolus vulgaris* L., string bean. 4 Jun 2007. Argentina: Quinta Marcelo Maita, Colonia Urquiza, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 8724 [CEP 309] CP D'Alessandro and C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Beta vulgaris* subsp. *cicla* (L.), chard. 6 Jun 2007. Argentina: Quinta Marcelo Maita, Colonia Urquiza, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 8725 [CEP 310] CP D'Alessandro and C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Beta vulgaris* subsp. *cicla* (L.), chard. 6 Jun 2007. Argentina: Quinta Marcelo Maita, Colonia Urquiza, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 8726 [CEP 311] CP D'Alessandro and C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Beta vulgaris* subsp. *cicla* (L.), chard. 6 Jun 2007. Argentina: Quinta Marcelo Maita, Colonia Urquiza, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 8727 [CEP 312] CP D'Alessandro and C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Phaseolus vulgaris* L., string bean. 13 Jun 2007. Argentina: Quinta Marcelo Maita, Colonia Urquiza, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 8728 [CEP 313] CP D'Alessandro and C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Solanum melongena* L., eggplant. 13 Jun 2007. Argentina: Quinta Marcelo Maita, Colonia Urquiza, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 8729 [CEP 314] CP D'Alessandro and C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Phaseolus vulgaris* L., string bean. 22 May 2007. Argentina: Quinta Marcelo Maita, Colonia Urquiza, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 8730 [CEP 315] CP D'Alessandro and C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Phaseolus vulgaris* L., string bean. 22 May 2007. Argentina: Quinta Marcelo Maita, Colonia Urquiza, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 8928 [CEP 316] CP D'Alessandro and C López Lastra. Adult, *Trialeurodes vaporariorum* [Hemiptera:

Aleyrodidae] on *Phaseolus vulgaris* L., string bean. 22 May 2007. Argentina: Colonia Urquiza, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.

Isaria javanica (Friederichs & Bally) Samson & Hywel-Jones
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Paecilomyces javanicus* (Friederichs & Bally) Brown & Smith. Reclassified during a phylogenetically necessary reclassification of *Paecilomyces* Section *Isarioidea*.

- 3303 J Gutierrez Samperio (19) ← ERD Reyes. *Bemisia* sp. [Hemiptera: Aleyrodidae] on watermelon. 1990. Mexico: Tecomán, Colima.
- 3573 TJ Poprawski (3). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Feb 1992. USA: cabbage field, McAllen, Texas.
- 3577 TJ Poprawski (7). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 3 Feb 1992. USA: cabbage field, McAllen, Texas.
- 3776 SP Wraight (SPW-11). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] poinsettia leaves. 24 Aug 1992. USA: Weslaco, Texas.
- 3778 SP Wraight (F92-2) ← J Salinus. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 9 Mar 1992. USA: Shary Plantation, Mission, Texas.
- 5259 SARL (9) ← SP Wraight (SPW-15). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 18 Nov 1992. USA: Santa Maria, Texas.
- 5321 SARL (125) ← SP Wraight (SPW-51). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] Broccoli. 8 Sep 1993. USA: Weslaco, Texas.
- 7477 [CEP 107] C López Lastra. *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Lycopersicon esculentum* Miller, tomato crop. 4 Apr 2004. Argentina: Colonia Urquiza, La Plata, Buenos Aires.

Isaria poprawskii Cabanillas, Humber, de León & Jones
[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 7028 HE Cabanillas. *Bemisia argentifolii* [Hemiptera: Aleyrodidae] on *Solanum melongena* L., eggplant in greenhouse. 28 Sep 2001. USA: Kika de la Garza Subtropical Agricultural Research Center, Weslaco, Texas. CULTURE EX TYPE.

Isaria sinclairii (Berkeley) Lloyd
[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 6925 [ATCC 24400] Nymph, *Mogannia hebes* [Hemiptera: Cicadidae]. Rec'd 30 Nov 2001. Republic of China: Taiwan. Produces thermozymocidin, myriocidin.

***Lecanicillium* sp.**

[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 2009 CIRPON ← M Yasem de Romero. *Toxoptera citricida* [Hemiptera: Aphididae]. 1985. Argentina: Tucumán.
- 3253 M Brownbridge (B). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 28 Nov 1990. USA: Allegheny Forest, Elk County, Pennsylvania.
- 3254 M Brownbridge (C). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 28 Nov 1990. USA: Allegheny Forest, Elk County, Pennsylvania.
- 3255 M Brownbridge (D). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 28 Nov 1990. USA: Allegheny Forest, Elk County, Pennsylvania.
- 3259 M Brownbridge (I). Brown larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 12 Dec 1990. USA: Krug, Massachusetts.
- 3260 M Brownbridge (J). Brown larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 12 Dec 1990. USA: Krug, Massachusetts.
- 7622 [SRCAMB VL-925] V Likhovidov. *Parthenolecanium corni* [Hemiptera: Coccidae]. 28 Aug 2002. Russian Federation: Caucasus region, Mostovsky District, Krasnodarsky Krai. Field Collection Number F-163.
- 8639 [CENARGEN CG 826] *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 18 Sep 2007. Brazil: Itiquira, Mato Grosso. **RESTRICTED ACCESS:** consult Curator.
- 9175 [ERL 1352] VS Gouli (HWA-06/10). *Adelges tsugae* [Hemiptera: Adelgidae]. 2006. USA: Massachusetts.
- 9176 [ERL 1353] VS Gouli (HWA-06/11). *Adelges tsugae* [Hemiptera: Adelgidae]. 2006. USA: Massachusetts.
- 9177 [ERL 1564] VS Gouli (Scale-09/10). [Hemiptera: Coccoidea] on ornamental lemon tree. 2009. USA: Vermont.
- 9466 [SRCAMB VL-2109] V Likhovidov. *Orthezia urticae* [Hemiptera: Ortheziidae]. 14 Sep 2006. Russian Federation: Moscow Region. Field Collection Number F-1093.
- 9924 [ERL 1768] S Gouli (HWA-G-46) and V Gouli. *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: New Hampshire.
- 9925 [ERL 1769] S Gouli and V Gouli (HWA-G-47). *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: New Hampshire.
- 9926 [ERL 1770] S Gouli (HWA-G-48) and V Gouli. *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: New Hampshire.
- 9930 [ERL 1774] S Gouli (Thr.-09-6) and V Gouli. [Thysanoptera: Thripidae]. 2010. USA: Vermont.
- 9931 [ERL 1775] S Gouli and V Gouli (Thr.-09-7). [Thysanoptera: Thripidae]. 2010. USA: Vermont.
- 9935 [ERL 1779] S Gouli and V Gouli (Thr.-09-11). [Thysanoptera: Thripidae]. 2010. USA: Vermont.

- 9936 [ERL 1780] S Gouli (Thr.-09-12) and V Gouli. [Thysanoptera: Thripidae]. 2010. USA: Vermont.
- 10154 [ERL 1814] S Gouli (Thr.-10-16) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Altona, New York.
- 10187 [ERL 1865] S Gouli (Thr.-10-73) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10188 [ERL 1866] S Gouli and V Gouli (Thr.-10-74). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10189 [ERL 1867] S Gouli (Thr.-10-75) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10190 [ERL 1868] S Gouli and V Gouli (Thr.-10-76). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10192 [ERL 1870] S Gouli and V Gouli (Thr.-10-78). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Westfield, Vermont.
- 10193 [ERL 1871] S Gouli (Thr.-10-79) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10195 [ERL 1873] S Gouli (Thr.-10-81) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10196 [ERL 1874] S Gouli and V Gouli (Thr.-10-82). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10197 [ERL 1875] S Gouli (Thr.-10-83) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Richford, Vermont.
- 10198 [ERL 1876] S Gouli and V Gouli (Thr.-10-84). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Richford, Vermont.
- 10199 [ERL 1877] S Gouli (Thr.-10-85) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Richford, Vermont.
- 10200 [ERL 1878] S Gouli and V Gouli (Thr.-10-86). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Richford, Vermont.
- 10201 [ERL 1879] S Gouli (Thr.-10-87) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10202 [ERL 1880] S Gouli and V Gouli (Thr.-10-88). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10203 [ERL 1881] S Gouli (Thr.-10-89) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10206 [ERL 1884] S Gouli and V Gouli (Thr.-10-92). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10207 [ERL 1885] S Gouli (Thr.-10-93) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10208 [ERL 1886] S Gouli (Thr.-10-94) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10209 [ERL 1887] S Gouli and V Gouli (Thr.-10-95). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10210 [ERL 1888] S Gouli (Thr.-10-96) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10211 [ERL 1889] S Gouli and V Gouli (Thr.-10-97). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10212 [ERL 1890] S Gouli (Thr.-10-98) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10213 [ERL 1891] S Gouli and V Gouli (Thr.-10-99). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10214 [ERL 1892] S Gouli (Thr.-10-100) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Rupert, Vermont.
- 10287 [ERL 1932] S Gouli (Thr.-10-138) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10288 [ERL 1933] S Gouli (Thr.-10-139) and D Tobi. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10289 [ERL 1934] S Gouli and V Gouli (Thr.-10-140). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10290 [ERL 1935] S Gouli (Thr.-10-141) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10291 [ERL 1936] S Gouli (Thr.-10-142) and D Tobi. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10294 [ERL 1939] S Gouli (Thr.-10-145) and D Tobi. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10295 [ERL 1940] S Gouli and V Gouli (Thr.-10-146). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10296 [ERL 1941] S Gouli (Thr.-10-147) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10297 [ERL 1942] S Gouli (Thr.-10-148) and D Tobi. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10298 [ERL 1943] S Gouli and V Gouli (Thr.-10-149). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10299 [ERL 1944] S Gouli (Thr.-10-150) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.

- 10300 [ERL 1945] S Gouli (Thr.-10-151) and D Tobi. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10301 [ERL 1946] S Gouli and V Gouli (Thr.-10-152). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10302 [ERL 1947] S Gouli (Thr.-10-153) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10303 [ERL 1948] S Gouli (Thr.-10-154) and D Tobi. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10304 [ERL 1949] S Gouli and V Gouli (Thr.-10-155). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10305 [ERL 1950] S Gouli (Thr.-10-156) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10306 [ERL 1951] S Gouli (Thr.-10-157) and D Tobi. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 11648 [ERL 591] S Gouli and V Gouli (HWA-SP). *Adelges tsugae* [Hemiptera: Adelgidae]. 2002. USA: Massachusetts.
- 12052 [ERL 2139] S Gouli (PS-12/1) and V Gouli. Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Vaccinium* sp., blueberry. Sep 2012. USA: Kingston, Rhode Island.
- 12053 [ERL 2140] S Gouli and V Gouli (PS-12/2). Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Carya* sp., hickory. Sep 2012. USA: Charlestown, Rhode Island.
- 12054 [ERL 2141] S Gouli (PS-12/3) and V Gouli. Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Carya* sp., hickory. Sep 2012. USA: Charlestown, Rhode Island.
- 12055 [ERL 2142] S Gouli and V Gouli (PS-12/4). Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Carya* sp., hickory. Sep 2012. USA: Charlestown, Rhode Island.
- 12056 [ERL 2143] S Gouli (PS-12/5) and V Gouli. Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Charlestown, Rhode Island.
- 12057 [ERL 2144] S Gouli and V Gouli (PS-12/6). Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Charlestown, Rhode Island.
- 12058 [ERL 2145] S Gouli (PS-12/7) and V Gouli. Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus rubra* L., northern red oak. Sep 2012. USA: Charlestown, Rhode Island.
- 12059 [ERL 2146] S Gouli and V Gouli (PS-12/8). Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Betula alleghaniensis* Britton, yellow birch. Sep 2012. USA: Charlestown, Rhode Island.
- 12060 [ERL 2147] S Gouli (PS-12/9) and V Gouli. Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Clethra* sp., sweetpepperbush. Sep 2012. USA: Charlestown, Rhode Island.
- 12061 [ERL 2148] S Gouli and V Gouli (PS-12/10). Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Gaylussacia* sp., huckleberry. Sep 2012. USA: Charlestown, Rhode Island.
- 12062 [ERL 2149] S Gouli (PS-12/11) and V Gouli. Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus rubra* L., northern red oak. Sep 2012. USA: Charlestown, Rhode Island.
- 12063 [ERL 2150] S Gouli and V Gouli (PS-12/12). Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Richmond, Rhode Island.
- 12064 [ERL 2151] S Gouli (PS-12/13) and V Gouli. Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Richmond, Rhode Island.
- 12065 [ERL 2152] S Gouli and V Gouli (PS-12/14). Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Richmond, Rhode Island.
- 12066 [ERL 2153] S Gouli (PS-12/15) and V Gouli. Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Richmond, Rhode Island.
- 12067 [ERL 2154] S Gouli and V Gouli (PS-12/16). Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus alba* L., white oak. Sep 2012. USA: Richmond, Rhode Island.
- 12068 [ERL 2155] S Gouli (PS-12/17) and V Gouli. Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Prunus serotina* Ehrh., black cherry. Sep 2012. USA: Richmond, Rhode Island.
- 12069 [ERL 2156] S Gouli and V Gouli (PS-12/18). Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus rubra* L., northern red oak. Sep 2012. USA: Richmond, Rhode Island.
- 12070 [ERL 2157] S Gouli (PS-12/19) and V Gouli. Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus rubra* L., northern red oak. Sep 2012. USA: Richmond, Rhode Island.
- 12071 [ERL 2158] S Gouli and V Gouli (PS-12/20). Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Betula populifolia* Marshall, gray birch. Sep 2012. USA: Richmond, Rhode Island.
- 12089 [ERL 2176] S Gouli and V Gouli (HWA-12/4). Nymph, *Adelges tsugae* [Hemiptera: Adelgidae] on *Tsuga canadensis* (L.) Carrière, eastern hemlock. Nov 2012. USA: Brattleboro, Vermont.

Lecanicillium aphanocladii Zare & W Gams

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Major synonym: *Aphanocladium araneorum* (Petch) W Gams

- 2324 TJ Poprawski (8648). *Myzus* nr. *persicae* [Hemiptera: Aphididae]. 14 Nov 1986. France: greenhouse, Béhoust, Yvelines.
- 9611 JG Banu (1). *Paracoccus marginatus* [Hemiptera: Pseudococcidae]. Dec 2009. India: Coimbatore, Tamil Nadu.

Lecanicillium aphanocladii(?) Zare & W Gams

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 7985 [ARSEF 8640; CENARGEN CG 422] *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 29 Mar 2006. Brazil: Dom Aquino, Mato Grosso. **RESTRICTED ACCESS: consult Curator.**
- 7986 *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 29 Mar 2006. Brazil: Manaus, Amazonas. **RESTRICTED ACCESS: consult Curator.**

Lecanicillium evansii(?) Zare & W. Gams

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 11789 [ERL 2014] S Gouli (THR-11-6) and V Gouli. [Thysanoptera: Thripidae]. 2011. USA: Underhill, Vermont.
- 11791 [ERL 2049] S Gouli and V Gouli (THR-11-38). [Thysanoptera: Thripidae]. 2011. USA: Debry, Vermont.
- 11792 [ERL 2050] S Gouli (THR-11-39) and V Gouli. [Thysanoptera: Thripidae]. 2011. USA: Underhill, Vermont.
- 11793 [ERL 2051] S Gouli and V Gouli (THR-11-40). [Thysanoptera: Thripidae]. 2011. USA: Underhill, Vermont.
- 11794 [ERL 2052] S Gouli (THR-11-41) and V Gouli. [Thysanoptera: Thripidae]. 2011. USA: Westfield, Vermont.
- 11797 [ERL 2055] S Gouli and V Gouli (THR-11-44). [Hemiptera: Aphididae]. 2011. USA: Westfield, Vermont.
- 11809 [ERL 2069] S Gouli and V Gouli (THR-11-58). [Thysanoptera: Thripidae]. 2011. USA: Westfield, Vermont.

Lecanicillium fungicola (Preuss) Zare & W Gams

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Synonym: *Lecanicillium fungicola* (Preuss) Hassebrauk

- 9482 [SRCAMB VL-1556/1] V Likhovidov. [Hemiptera: Aleyrodidae]. 12 Sep 2004. Russian Federation: Caucasus region, Sochi District, Krasnodarsky Krai. Field Collection Number F-493.

Lecanicillium fusisporum (W Gams) Zare & W Gams

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Synonym: *Verticillium fusisporum* W Gams

- 5583 T Steenberg (MP6-9). *Myzus persicae* [Hemiptera: Aphididae]. Rec'd 17 Nov 1997. Denmark: Lyngby, Zealand. Single spore isolate from ARSEF 4078.
- 11787 [ERL 2011] S Gouli and V Gouli (THR-11-3). [Thysanoptera: Thripidae]. 2011. USA: Altona, New York.
- 11808 [ERL 2068] S Gouli (THR-11-57) and V Gouli. [Thysanoptera: Thripidae]. 2011. USA: Altona, New York.

Lecanicillium fusisporum(?) (W Gams) Zare & W Gams

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Synonym: *Verticillium fusisporum* W. Gams

- 10184 [ERL 1863] S Gouli and V Gouli (Thr.-10-71). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.

Lecanicillium lecanii (Zimmermann) Zare & W Gams

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas. Teleomorph: *Cordyceps confragosa* (Mains) GH Sung, JM Sung, Hywel-Jones & Spatafora [basonym: *Torrubiella confragosa* Mains]

- 555 P Kanagaratnam. *Lecanium viridis* [Hemiptera: Lecaniidae] on coffee on wet leaves under coconut. Dec 1980. Sri Lanka: Bandirippuwa Est., Coconut Res. Inst, Lunuwila.
- 1787 IL Sivcev (287). 3rd instar larva, *Brevicoryne brassicae* [Hemiptera: Aphididae] on cabbage. 1 Oct 1984. Yugoslavia: PKB Commune, E. Belgrade.
- 2149 DG Holdom (030386-1). *Coccus viridis* [Hemiptera: Coccidae] on coffee. 3 Mar 1986. Indonesia: Yogyakarta, Java.
- 2150 DG Holdom (030386-2). *Coccus viridis* [Hemiptera: Coccidae] on coffee. 3 Mar 1986. Indonesia: Yogyakarta, Java.
- 3387 I Majchrowicz (40). *Myzus persicae* [Hemiptera: Aphididae] on cabbage. Jul 1991. USA: laboratory cages, Yakima, Washington.
- 3683 AD Ali and M Brownbridge (F1.2) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.
- 3688 M Brownbridge (F6) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.

- 5706 JL Hatting (4). *Diuraphis noxia* [Hemiptera: Aphididae] on *Triticum aestivum*. 5 Sep 1997. South Africa: Moorreesburg, Western Cape Province.
- 5759 BL Parker (AT 128). *Adelges tsugae* [Hemiptera: Adelgidae]. 16 Oct 1997. USA: Gillette Castle State Park, Connecticut.
- 5785 BL Parker (HWA 115/1). *Adelges tsugae* [Hemiptera: Adelgidae]. 2 Apr 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 5787 BL Parker (HWA 129). *Adelges tsugae* [Hemiptera: Adelgidae]. 2 Apr 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 5794 BL Parker (HWA 242/1). *Adelges tsugae* [Hemiptera: Adelgidae]. 7 Mar 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 5829 BL Parker (HWA 143/2). *Adelges tsugae* [Hemiptera: Adelgidae]. 2 Apr 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 6010 BL Parker ← V Gouli (SPT-R-151). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 19 Sep 1998. Russian Federation: Volgograd.
- 6791 FJ Posada (CEFC V-0002). Adult, *Ceroplastes* sp. [Hemiptera: Coccidae] on *Passiflora adenopoda* DC., passionflower. Jul 2000. Colombia: Greenhouse, Chinchiná, Caldas.
- 6886 H Cortez Madrigal (Vu). *Uroleucon ambrosiae* [Hemiptera: Aphididae] on weed, *Compositae*. Aug 2000. Mexico: Cárdenas, Tabasco.
- 6887 H Cortez Madrigal (Vs). [Hemiptera: Aphididae] on forest tree. 22 Jun 2000. Mexico: Huimanguillo, Tabasco.
- 6888 H Cortez Madrigal (Ve). [Hemiptera: Coccidae] on ornamental tree. 4 Nov 1999. Mexico: Cárdenas, Tabasco.
- 6915 I Klingen (NCRI 03/01/VI). *Myzus cerasi* [Hemiptera: Aphididae]. 12 Jun 2001. Norway: Kaia, Ås, Akershus.
- 7207 [CEP 057] C López Lastra. *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Apium graveolens* var. *dulce* (Miller) Pers., celery. 7 Jul 2003. Argentina: El Peligro, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 7408 M Liu (ml172-2). [Hemiptera: Coccoidea]. 16 Dec 2003. USA: Guilarte Forest Reserve, outside manager's office, Adjuntas, Puerto Rico. Cultured from *Torrubiella confragosa* Mains.
- 7462 [CEP 108] C López Lastra. *Myzus persicae* [Hemiptera: Aphididae] from laboratory colony. 25 Apr 2004. Argentina: La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 7530 S Keller (950). *Aphis rumicis* [Hemiptera: Aphididae]. 14 Oct 2003. Switzerland: Watt, Zurich.
- 7550 I Marchizeli Wenzel. [Hemiptera: Coccoidea]. Rec'd 24 Jan 2005. Brazil: Ubirajara, São Paulo.
- 11817 [ERL 2083] S Gouli and V Gouli (HWA-12-3). *Adelges tsugae* [Hemiptera: Adelgidae]. 2012. USA: Dummerston, Vermont.
- Lecanicillium lecanii*(?)** (Zimmermann) Zare & Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas.
- 3689 M Brownbridge (F7) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.
- 3882 [ARSEF 3836] N Underwood (3836) ← S Meyer (3836). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 24 Feb 1993. Laboratory manipulation. Reisolated from bioassay.
- 3883 [ARSEF 3837] N Underwood (3837) ← S Meyer (3837). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 24 Feb 1993. Laboratory manipulation. Reisolated from bioassay.
- 3884 [ARSEF 3839] S Meyer (3839) ← N Underwood (3839). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 24 Feb 1993. Laboratory manipulation. Reisolated from bioassay.
- 4060 T Steenberg (VT2). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae]. Jul 1989. Denmark: Lyngby, Zealand.
- 5580 T Steenberg (TT4). *Thrips tabaci* [Thysanoptera: Thripidae]. Rec'd 17 Nov 1997. Denmark.
- 5581 T Steenberg (VL10). [Hemiptera: Aphididae]. Rec'd 17 Nov 1997. Denmark.
- 6289 S Farrokhi (PPDRI 4). *Coccus hesperidum* [Hemiptera: Coccidae]. Oct 1996. Iran: Amal.
- 11815 [ERL 2080] S Gouli (EHS-12-3) and V Gouli. *Fiorinia externa* [Hemiptera: Diaspididae]. 2012. USA: East Granby, Connecticut.
- Lecanicillium longisporum*** (Petch) Zare & W Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas
- 321 GR Buckingham. *Rhopalosiphum nymphaeae* [Hemiptera: Aphididae]. Dec 1978. USA: Crystal River, Gainesville, Florida.
- 974 [GCRI 93-82a] RA Hall. [Hemiptera: Aphididae]. Acc'd 17 Oct 1983. Venezuela.
- 1026 [GCRI 13-74] RA Hall. *Myzus persicae* [Hemiptera: Aphididae]. 1974. India: Nagaich.
- 2460 TJ Poprawski (8705) ← AJ Nasca (VL-T9). *Toxoptera citricida* [Hemiptera: Aphididae]. 1984. Argentina: Tucumán. 29547.
- 3701 LA Lacey (059) ← BL Parker. Adult, [Thysanoptera: Thripidae]. 26 Mar 1992. France: Bellegarde, Gard.

- 5126 [Horticulture Research International 1.72] D Chandler (HRI 1.72). *Macrosiphoniella sanborni* [Hemiptera: Aphididae] on chrysanthemums in a heated greenhouse. 1972. United Kingdom: Littlehampton, West Sussex, England. Used in Vertalec.
 - 7206 [CEP 056] C López Lastra. *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Apium graveolens* var. *dulce* (Miller) Pers., celery. 2 Jul 2003. Argentina: El Peligro, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
 - 7457 [CEP 100] C López Lastra. [Hemiptera: Aphididae] on *Cynara cardunculus* L., artichoke crop. 16 Mar 2004. Argentina: Bartolomé Bavio, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
 - 7458 [CEP 101] C López Lastra. [Hemiptera: Aphididae] on *Cynara cardunculus* L., artichoke crop. 16 Mar 2004. Argentina: Bartolomé Bavio, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
 - 7459 [CEP 106] C López Lastra. [Hemiptera: Aphididae] on *Cynara cardunculus* L., artichoke crop. 13 Apr 2004. Argentina: Bartolomé Bavio, Buenos Aires.
 - 7461 [CEP 056] C López Lastra. *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Apium graveolens* L., celery crop. 2 Jul 2003. Argentina: El Peligro, La Plata, Buenos Aires.
 - 7783 [CEP 188] C López Lastra ← AC Scorsetti. [Hemiptera: Aphididae] on *Cynara cardunculus* L., artichoke crop. 1 Mar 2005. Argentina: General Mansilla, Partido Magdalena, Buenos Aires.
 - 7784 [CEP 190] C López Lastra ← AC Scorsetti. [Hemiptera: Aphididae] on *Cynara cardunculus* L., artichoke crop. 22 Mar 2005. Argentina: General Mansilla, Partido Magdalena, Buenos Aires.
 - 7923 KT Hodge ← MR Faria. [Hemiptera: Aphididae] on lower leaf surface of an aquatic plant. 19 Sep 2005. USA: Northeast Elementary School, Ithaca, New York.
 - 8042 E Herrera Navarro (V.I. - Colima). [Hemiptera: Aphididae] collected from *Citrus limon* (L.) Burm., lemon trees. Rec'd 24 May 2006. Mexico: Colima.
- Lecanicillium muscarium*** (Petch) Zare & W Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas
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- 204 RT Mietkiewski. *Macrosiphum euphorbiae* [Hemiptera: Aphididae]. 6 Feb 1978. USA: greenhouse, Orono, Maine.
 - 972 [GCRI 55-81] RA Hall. *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae]. Acc'd 17 Oct 1983. Poland: glasshouse.
 - 980 [GCRI 12-74] RA Hall. *Pulvinaria floccifera* [Hemiptera: Coccidae]. Acc'd 17 Oct 1983. Turkey.
 - 1029 [GCRI 8-73] RA Hall. *Saissetia oleae* [Hemiptera: Coccidae]. 1973. Israel.
 - 1033 [GCRI 20-79] RA Hall. *Icerya purchasi* [Hemiptera: Margarodidae]. 1979. Sri Lanka.
 - 1774 RA Humber and MC Rombach. *Coccus viridis* [Hemiptera: Coccidae] on coffee under coconut. 12 Nov 1984. Sri Lanka: Coconut Research Institute, Lunuwila.
 - 2323 TJ Poprawski (8647). *Myzus* nr. *persicae* [Hemiptera: Aphididae]. 14 Nov 1986. France: greenhouse, Béhoust, Yvelines.
 - 2325 Adult, *Myzus* nr. *persicae* [Hemiptera: Aphididae] on tobacco. 14 Nov 1986. France: greenhouse, Béhoust, Yvelines.
 - 2326 TJ Poprawski (8650). Adult, *Myzus* nr. *persicae* [Hemiptera: Aphididae] on tobacco. 14 Nov 1986. France: greenhouse, Béhoust, Yvelines.
 - 2334 MG Feng (SAVL8602). *Sitobion avenae* [Hemiptera: Aphididae] on wheat. 25 Jun 1986. USA: greenhouse, Moscow, Idaho.
 - 2659 C Gopalakrishnan (30). [Hemiptera: Aphididae]. Rec'd Nov 1988. India.
 - 2858 MG Feng (ME8701). *Macrosiphum euphorbiae* [Hemiptera: Aphididae] on field corn. Aug 1987. USA: Parma, Idaho.
 - 2862 MG Feng (DN8801). *Diuraphis noxia* [Hemiptera: Aphididae] on spring wheat. 28 Jun 1988. USA: Wilder, Idaho.
 - 2877 MG Feng (DN8802). *Diuraphis noxia* [Hemiptera: Aphididae] on spring wheat. 28 Jun 1988. USA: Wilder, Idaho.
 - 2878 MG Feng (DN8701). *Diuraphis noxia* [Hemiptera: Aphididae] on wheat. 20 Jul 1987. USA: greenhouse, Parma, Idaho.
 - 2923 MS Goettel. [Thysanoptera: Thripidae]. Rec'd 14 Dec 1989. Canada.
 - 3000 MS Goettel. *Diuraphis noxia* [Hemiptera: Aphididae] on barley. 23 Oct 1989. Canada: nr. Writing-on-Stone Prov. Park, Warner County, Alberta.
 - 3324 Yoder Bros. Inc. *Myzus persicae* [Hemiptera: Aphididae] on carnation. Mar 1991. USA: Salinas, California.
 - 3464 [NRRL 52754] D Wilson ← T Whitham. Gall, *Pemphigus betae* [Hemiptera: Aphididae] on narrowleaf cottonwood, *Populus angustifolia*. Rec'd 5 Nov 1991. USA: Arizona.
 - 3684 M Brownbridge (F2.3) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.
 - 3685 M Brownbridge (F3.1) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.
 - 3686 M Brownbridge (F4) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.

- 3690 M Brownbridge (F9) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.
- 3691 M Brownbridge (F10) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.
- 3709 LA Lacey (036A) ← A Kirk. Adult, [Hemiptera: Aleyrodidae]. 18 Dec 1991. Spain.
- 3740 D Lonsdale (AH1). *Cryptococcus fagisuga* [Hemiptera: Eriococcidae] beech tree (*Fagus sylvatica*). Rec'd 6 Jul 1992. United Kingdom: England.
- 3861 [ARSEF 2862] N Underwood (ARSEF2862). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 28 Jan 1993. Laboratory manipulation.
- 5128 [Horticulture Research International 19.79] D Chandler (HRI 19.79). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on cucumber. 1979. United Kingdom: Littlehampton, West Sussex, England. Used in Mycotol.
- 5165 S Gouli (GP-53). *Adelges tsugae* [Hemiptera: Adelgidae] on *Tsuga canadensis*. 14 Feb 1996. USA: Mt. Tom, Holyoke, Massachusetts.
- 5772 BL Parker (AT 136). *Adelges tsugae* [Hemiptera: Adelgidae]. 19 Oct 1997. USA: Lovington, Virginia.
- 5778 BL Parker (HWA 8-1). *Adelges tsugae* [Hemiptera: Adelgidae]. 7 Mar 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 5779 BL Parker (HWA 8-2). *Adelges tsugae* [Hemiptera: Adelgidae]. 7 Mar 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 5780 BL Parker (HWA 9). *Adelges tsugae* [Hemiptera: Adelgidae]. 7 Mar 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 5782 BL Parker (HWA 61/2). *Adelges tsugae* [Hemiptera: Adelgidae]. 9 Mar 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 5791 BL Parker (HWA 159). *Adelges tsugae* [Hemiptera: Adelgidae]. 10 Apr 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 5795 BL Parker (HWA 280). *Adelges tsugae* [Hemiptera: Adelgidae]. 16 May 1997. USA: Princeton, New Jersey.
- 5798 BL Parker (HWA 304). *Adelges tsugae* [Hemiptera: Adelgidae]. Oct 1997. USA: Russell, Massachusetts.
- 5822 BL Parker (AT 076). *Adelges tsugae* [Hemiptera: Adelgidae]. 3 Jul 1997. USA: Crabtree Falls, Virginia.
- 5828 BL Parker (HWA 60/1). *Adelges tsugae* [Hemiptera: Adelgidae]. 7 Mar 1998. USA: Mt. Tom, Holyoke, Massachusetts.
- 6035 BL Parker (AT-C-284). 2nd instar, *Adelges tsugae* [Hemiptera: Adelgidae]. 30 Oct 1998. PR China: Site 4, Tree Number 16, Sichuan Province.
- 6118 BL Parker (SPT-2-311). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6792 FJ Posada (CEFC V-0003). Adult, *Coccus viridis* [Hemiptera: Coccidae] on *Coffea arabica* L., coffee. Jul 2000. Colombia: Field, Palestina, Caldas.
- 6914 I Klingen (NCRI 04/01/VI). *Myzus cerasi* [Hemiptera: Aphididae]. 4 Jul 2001. Norway: Agnes Volent, Klokkearstua, Hurum, Buskerud.
- 7034 RG Hollingsworth (KNF2002-4). [Hemiptera: Aphididae]. 26 Jan 2002. USA: Hilo, Hawaii.
- 7037 RG Hollingsworth (KNF2002-7). [Hemiptera: Cicadellidae]. 26 Jan 2002. USA: Bird Park, Volcano, Hawaii.
- 7375 D Held. *Ceroplastes* sp. [Hemiptera: Coccidae] on *Ilex* sp., holly. 26 May 2004. USA: Green Forest Nursery, Perkinston, Mississippi.
- 7460 [CEP 054] C López Lastra. *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] on *Apium graveolens* L., celery crop. 6 Jun 2003. Argentina: El Peligro, La Plata, Buenos Aires. **RESTRICTED ACCESS: consult Curator.**
- 7633 [SRCAMB VL-43] V Likhovidov. [Hemiptera: Coccoidea]. Sep 2001. Russian Federation: Caucasus region, Sochi District, Krasnodarsky Krai. Field Collection Number F-246.
- 7781 [CEP 063] C López Lastra ← A Toledo. Adult, female, *Delphacodes kuscheli* [Hemiptera: Delphacidae] reared on *Hordeum vulgare* L., barley. 28 Aug 2003. Argentina: greenhouse at CEPAVE, La Plata, Buenos Aires. **RESTRICTED ACCESS: consult Curator.**
- 7782 [CEP 182] C López Lastra ← AC Scorsetti. *Myzus persicae* [Hemiptera: Aphididae] Laboratory colony. 29 Dec 2004. Argentina: La Plata, Buenos Aires. **RESTRICTED ACCESS: consult Curator.**
- 7785 [CEP 194] C López Lastra ← AC Scorsetti. *Aphis fabae* [Hemiptera: Aphididae] on *Solanum melongena* L., eggplant. 22 Mar 2005. Argentina: General Mansilla, Partido Magdalena, Buenos Aires. **RESTRICTED ACCESS: consult Curator.**
- 8041 [ATCC 26854] E Herrera Navarro (V.I. - UAM). *Parthenolecanium corni* [Hemiptera: Coccidae]. Rec'd 24 May 2006. Czechoslovakia.
- 8714 KL Perry. *Myzus persicae* [Hemiptera: Aphididae] on potato leaves in laboratory incubator colonies. Rec'd 16 Apr 2008. USA: Cornell University, Virology-Nematology Laboratory and Greenhouse, Ithaca, New York.
- 10178 [ERL 1857] S Gouli and V Gouli (Thr.-10-65). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 11730 I Erper (TR-04). *Palomena prasina* [Hemiptera: Pentatomidae]. Rec'd 6 Feb 2012. Turkey: Ordu Province.

- 11731 I Erper (TR-05). *Palomena prasina* [Hemiptera: Pentatomidae]. Rec'd 6 Feb 2012. Turkey: Samsun Province.
- 11733 I Erper (TR-07). *Palomena prasina* [Hemiptera: Pentatomidae]. Rec'd 6 Feb 2012. Turkey: Ordu Province.
- 11734 I Erper (TR-08). *Palomena prasina* [Hemiptera: Pentatomidae]. Rec'd 6 Feb 2012. Turkey: Düzce Province.
- 11736 I Erper (TR-10). *Parthenolecanium* sp. [Hemiptera: Coccidae]. Rec'd 6 Feb 2012. Turkey: Trabzon Province.
- 11818 [ERL 2084] S Gouli (HWA-12-4) and V Gouli. *Adelges tsugae* [Hemiptera: Adelgidae]. 2012. USA: Wilton, New Hampshire.

***Lecanicillium muscarium*(?)** (Petch) Zare & Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas.

- 3687 M Brownbridge (F5) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.
- 5777 BL Parker (HWA 4). *Adelges tsugae* [Hemiptera: Adelgidae]. Oct 1997. USA: Russell, Massachusetts. Strong hints of *Lecanicillium longisporum*, but some conidia too small. .
- 9463 [SRCAMB B-410] V Likhovidov ← BA Borisov. [Hemiptera: spf. Coccoidea]. Oct 1990. Ukraine: Kherson Oblast. Field Collection Number F-224.
- 9464 [SRCAMB B-322] V Likhovidov ← BA Borisov. [Hemiptera: Aleyrodidae]. 8 Jul 2003. Russian Federation: Vladivostok, Primorsky Krai. Field Collection Number F-327.
- 11816 [ERL 2082] S Gouli (HWA-12-2) and V Gouli. *Adelges tsugae* [Hemiptera: Adelgidae]. 2012. USA: East Granby, Connecticut.

Lecanicillium psalliotae (Treschow) Zare & W Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Verticillium psalliotae* Treschow

- 2234 LS Osborne (UK-3(3)). *Rhizoecus* sp. [Hemiptera: Pseudococcidae] in soil. Acc'd 8 Sep 1986. USA: Mid-Florida Research & Education Center, Greenhouse 3, Apopka, Florida.
- 2235 LS Osborne (UK-3(2)). *Rhizoecus* sp. [Hemiptera: Pseudococcidae] in soil. Acc'd 8 Sep 1986. USA: Mid-Florida Research & Education Center, Greenhouse 3, Apopka, Florida.
- 2332 MG Feng (SA8601). *Sitobion avenae* [Hemiptera: Aphididae] on spring wheat. 25 Jul 1986. USA: Apple Valley Rd. & Klahr Rd., Parma, Idaho.

- 5582 T Steenberg (BT5). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Rec'd 17 Nov 1997. Denmark: Greenhouse, Lyngby, Zealand.
- 5666 BL Parker (SPT-005). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 17 Jan 1998. Turkey: Karabykly, Narli, Kahraman Maras.
- 5681 BL Parker (SPT-077). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 25 Jan 1998. Syria: Rmilan, Hassakeh, Azaz, Halab.
- 5683 BL Parker (SPT-079). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 25 Jan 1998. Syria: Rmilan, Hassakeh, Azaz, Halab.
- 5763 BL Parker (SPT 051). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Jan 1998. Syria: Rmilan, Hassakeh, Azaz, Halab.
- 5835 BL Parker (SPT 052). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 25 Jan 1998. Syria: Rmilan, Hassakeh, Azaz, Halab.
- 6071 BL Parker (SPT-U-285). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 24 Jan 1999. Syria: Al Kseabiia.
- 6436 DEN Rangel (JAB 13). Biotype B, *Bemisia tabaci* [Hemiptera: Aleyrodidae] on poinsettia. 3 Sep 1999. Brazil: Glasshouse, FCAV/UNESP, Jaboticabal, São Paulo.
- 6581 G Sewify (3). *Icerya aegyptica* [Hemiptera: Margarodidae]. May 2000. Egypt.
- 6582 G Sewify (4). *Icerya aegyptica* [Hemiptera: Margarodidae]. May 2000. Egypt.
- 9474 [SRCAMB VL-2011] V Likhovidov. [Hemiptera: Aphididae]. 5 Sep 2005. Russian Federation: Moscow Region. Field Collection Number F-859.
- 10170 [ERL 1842] S Gouli (Thr.-10-50) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Altona, New York.
- 10175 [ERL 1854] S Gouli (Thr.-10-62) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10176 [ERL 1855] S Gouli and V Gouli (Thr.-10-63). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10177 [ERL 1856] S Gouli (Thr.-10-64) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Langdon, New Hampshire.
- 10180 [ERL 1859] S Gouli and V Gouli (Thr.-10-67). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Richford, Vermont.
- 10181 [ERL 1860] S Gouli (Thr.-10-68) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10182 [ERL 1861] S Gouli and V Gouli (Thr.-10-69). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.

***Lecanicillium psalliotae*(?)** (Treschow) Zare & W
Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Synonym: *Verticillium psalliotae*
Treschow

- 10183 [ERL 1862] S Gouli (Thr.-10-70) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.

***Lecanicillium*(?) sp.**

[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 9369 [ERL 1669] S Gouli and V Gouli (HWA-G-23). *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: Massachusetts.

***Mariannaea* sp.**

[Sordariomycetes: Hypocreales]
Cordycipitaceae; correct generic assignment remaining to be determined.

- 2930 [IMI 331276] M Skinner (PT-11). Larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae] from soil. Rec'd 10 Jan 1990. USA: sugar maple stand, Randolph, Vermont.
- 3252 M Brownbridge (A). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 28 Nov 1990. USA: Allegheny Forest, Elk County, Pennsylvania.
- 3257 M Brownbridge (F). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 22 Feb 1991. USA: Agway Research Farm, Tully, New York.
- 3258 M Brownbridge (G). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 28 Nov 1990. USA: B. Bascone, Sullivan County, New Hampshire.
- 3261 M Brownbridge (K). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 7 Dec 1990. USA: Williamstown, Massachusetts.
- 3262 M Brownbridge (L). Discolored larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 7 Dec 1990. USA: Williamstown, Massachusetts.
- 3263 M Brownbridge (M). Brown larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 12 Dec 1990. USA: Clark, Massachusetts.
- 3264 M Brownbridge (N). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 17 Dec 1990. USA: Woods Forest, Connecticut.
- 3265 M Brownbridge (O). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 17 Dec 1990. USA: Woods Forest, Connecticut.
- 3267 M Brownbridge (Q). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 17 Dec 1990. USA: Woods Forest, Connecticut.
- 3268 M Brownbridge (R). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 17 Dec 1990. USA: Woods Forest, Connecticut.

- 3269 M Brownbridge (S). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 17 Dec 1990. USA: Woods Forest, Connecticut.
- 3270 M Brownbridge (T). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 17 Dec 1990. USA: Woods Forest, Connecticut.
- 3315 M Brownbridge (DT-122). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. Rec'd 19 Mar 1991. USA: Perry's sugar maple stand, Orange County, Vermont.
- 3316 M Brownbridge (Williams). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. Rec'd 19 Mar 1991. USA: William's sugar maple stand, Orange County, Vermont.
- 3317 M Brownbridge (Perry 2). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. Rec'd 19 Mar 1991. USA: Perry's sugar maple stand, Orange County, Vermont.
- 3549 M Brownbridge (R-11). Yellow mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 26 Nov 1991. USA: Thurber's sugar maple stand, Windham County, Vermont.
- 3554 M Brownbridge (R-20.1). Larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 26 Nov 1991. USA: Twitchell's sugar maple stand, Bennington County, Vermont.
- 3555 Larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 26 Nov 1991. USA: Twitchell's sugar maple stand, Bennington County, Vermont.
- 3557 M Brownbridge (R-23). Pink mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Ralph's sugar maple stand, Warren, Vermont.
- 3558 M Brownbridge (R-25). Pink mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Ralph's sugar maple stand, Warren, Vermont.
- 3559 M Brownbridge (R-27). Brown mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Begin's sugar maple stand, Windsor County, Vermont.
- 3562 M Brownbridge (R-31). Mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Motyka's sugar maple stand, Orange County, Vermont.
- 3563 M Brownbridge (R-34). Mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Motyka's sugar maple stand, Orange County, Vermont.
- 9932 [ERL 1776] S Gouli (Thr.-09-8) and V Gouli. [Thysanoptera: Thripidae]. 2010. USA: Vermont.
- 9933 [ERL 1777] S Gouli and V Gouli (Thr.-09-9). [Thysanoptera: Thripidae]. 2010. USA: Vermont.
- 9934 [ERL 1778] S Gouli (Thr.-09-10) and V Gouli. [Thysanoptera: Thripidae]. 2010. USA: Vermont.
- 10150 [ERL 1810] S Gouli (Thr.-10-28) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Altona, New York.

- 10151 [ERL 1811] S Gouli and V Gouli (Thr.-10-29). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Altona, New York.
- 10152 [ERL 1812] S Gouli (Thr.-10-30) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Rupert, Vermont.
- 10153 [ERL 1813] S Gouli and V Gouli (Thr.-10-31). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Rupert, Vermont.
- 10185 [ERL 1864] S Gouli (Thr.-10-72) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10194 [ERL 1872] S Gouli and V Gouli (Thr.-10-80). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10204 [ERL 1882] S Gouli and V Gouli (Thr.-10-90). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Langdon, New Hampshire.
- 10205 [ERL 1883] S Gouli (Thr.-10-91) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Langdon, New Hampshire.
- 11812 [ERL 2072] S Gouli (THR-11-61) and V Gouli. [Thysanoptera: Thripidae]. 2011. USA: Debry, Vermont.
- 11813 [ERL 2073] S Gouli and V Gouli (THR-11-62). [Thysanoptera: Thripidae]. 2011. USA: Debry, Vermont.

***Massospora cicadina* Peck**

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae. Strains are provided as vegetative protoplasts in liquid tissue culture medium. No sustainable growth of walled hyphae, conidia, or resting spores has been produced by cultures.

- 374 RS Soper. *Magiccada septendecim* [Hemiptera: Cicadidae]. 16 Jun 1979. USA: Mohawk Lake Preserve, New Paltz, New York.

***Metarhiziosis microspora* D-W Li, R Cowles, & C Vossbrinck**

[Sordariomycetes: Hypocreales]

Ophiocordycipitaceae

- 8676 DW Li. *Fiorinia externa* [Hemiptera: Diaspididae]. Oct 2006. USA: Coventry, Connecticut. 41°47.25' N, 72°21.50' W. Holotype deposited as BPI 878276. CULTURE EX TYPE.
- 8984 [ERL 1349] VS Gouli (EHS-333). *Fiorinia externa* [Hemiptera: Diaspididae]. 2006. USA: Massachusetts.
- 8985 [ERL 1350] VS Gouli (EHS-344). *Fiorinia externa* [Hemiptera: Diaspididae]. 2006. USA: Massachusetts.
- 8986 [ERL 1497] VS Gouli (EHS-269). *Fiorinia externa* [Hemiptera: Diaspididae]. 2005. USA: New York.
- 8987 [ERL 1499] S Gouli (EHS-271). *Fiorinia externa* [Hemiptera: Diaspididae]. 2005. USA: New York.
- 8988 [ERL 1502] VS Gouli (EHS-274). *Fiorinia externa* [Hemiptera: Diaspididae]. 2005. USA: New York.

- 11842 [ERL 2023] S Gouli and V Gouli (EHS-11-1). *Fiorinia externa* [Hemiptera: Diaspididae]. 2011. USA: Harriman State Park, New York.
- 11843 [ERL 2024] S Gouli (EHS-12-1) and V Gouli. *Fiorinia externa* [Hemiptera: Diaspididae]. 2012. USA: East Granby, Connecticut.
- 11851 [ERL 2032] S Gouli (EHS-11-2) and V Gouli. *Fiorinia externa* [Hemiptera: Diaspididae]. 2011. USA: Love Lane, New Hampshire.

Metarhizium sp.

[Sordariomycetes: Hypocreales]

Clavicipitaceae

- 2353 [ARSEF 2382 (never frozen)] MC Rombach (201286-4). [Hemiptera: Cicadellidae]. 20 Dec 1986. Philippines: rainforest, Mt. Makiling, Los Baños, Manila.
- 7645 [SRCAMB B-415] V Likhovidov ← BA Borisov. Larva, [Hemiptera: Cicadidae]. 27 Jul 2002. Russian Federation: Kunashir Island, Sakhalin Region. Field Collection Number F-362.
- 11839 [ERL 2020] S Gouli (THR-11-12) and V Gouli. [Thysanoptera: Thripidae]. 2011. USA: Underhill, Vermont.

***Metarhizium album* Petch**

[Sordariomycetes: Hypocreales]

Clavicipitaceae

- 1840 MC Rombach. *Nephotettix virescens* [Hemiptera: Cicadellidae]. Acc'd 29 Jan 1985. Philippines: IRRRI, Los Baños, Manila.
- 1941 MC Rombach (MPAL) ← DJ Im. *Nephotettix virescens* [Hemiptera: Cicadellidae] on rice. Jul 1985. Philippines: Roxas, Palawan.
- 1942 MC Rombach (MLAG). *Nephotettix virescens* [Hemiptera: Cicadellidae] on rice. Nov 1984. Philippines: Laguna.
- 1943 MC Rombach (MLAGwhite). *Nephotettix virescens* [Hemiptera: Cicadellidae] on rice. Nov 1984. Philippines: Laguna.
- 2081 MC Rombach ← HC Evans (I85-87) ← MJ Coch. [Hemiptera: Cicadellidae] on mango. Dec 1985. Philippines: Tuguegarao, Cagayan.
- 2082 [IMI 300150] MC Rombach ← HC Evans (I85-12). *Cofana spectra* [Hemiptera: Cicadellidae] on rice. Mar 1985. Indonesia: Kotamobagu, Sulawesi Utara, Celebes.
- 2176 MC Rombach (130586-17). *Nephotettix virescens* [Hemiptera: Cicadellidae] on rice. 13 May 1986. Philippines: nr. Baybay, Leyte.
- 2178 MC Rombach (130586-19). *Nephotettix virescens* [Hemiptera: Cicadellidae] on rice. 13 May 1986. Philippines: nr. Baybay, Leyte.
- 2179 MC Rombach (130586-20). *Recilia dorsalis* [Hemiptera: Cicadellidae] on rice. 13 May 1986. Philippines: nr. Baybay, Leyte.

***Metarhizium anisopliae* sensu lato** (Metschnikoff)

Sorokin

[Sordariomycetes: Hypocreales]

Clavicipitaceae. These isolates were identified morphologically and have not yet been reidentified under the genomic classification of Bischoff et al. (2009).

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- 456 [QEC 411.0] RS Soper. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 457 [QEC 412.0] RS Soper. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 485 [QEC 413.0] RS Soper (NT-21). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 486 [QEC 414.0] RS Soper (NT-25). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 487 [QEC 415.0] RS Soper (NT-20). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 488 [QEC 416.0] RS Soper (NT-24). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 489 [QEC 417.0] RS Soper (NT-22). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 543 DW Roberts (81280). *Recilia dorsalis* [Hemiptera: Cicadellidae]. 12 Aug 1980. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 729 [CNPAF 82-2-15-02; CP 24] RA Daoust. *Deois flavopicta* [Hemiptera: Cercopidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 759 [CNPAF 82-4-1-01; CP 37] RA Daoust. *Deois flavopicta* [Hemiptera: Cercopidae]. 1 Apr 1982. Brazil: CNPAF, Goiânia, Goiás.
- 782 [CNPAF 82-5-4-01; CP 52] RA Daoust ← SM dos Santos. *Deois flavopicta* [Hemiptera: Cercopidae]. 4 May 1982. Brazil: CNPAF, Goiânia, Goiás.
- 925 [ATCC 60335; EPABA E-9(ESMC); QEC 409.0] DW Roberts ← J Ventura. *Deois flavopicta* [Hemiptera: Cercopidae]. 22 Aug 1978. Brazil: Espírito Santo.
- 955 [CNPAF 83-4-27; CP 100] RA Daoust ← SM dos Santos. *Deois flavopicta* [Hemiptera: Cercopidae]. 27 Apr 1983. Brazil: CNPAF, Goiânia, Goiás.
- 1055 [CNPS 19] F Moscardi. *Nezara viridula* [Hemiptera: Pentatomidae]. 1983. Brazil: Londrina, Paraná.
- 1282 K El-kadi (CEPLAC-ICI). [Hemiptera: Cercopidae]. Acc'd 3 May 1984. Brazil: Bahia.
- 1284 [QEC 434.0] DW Roberts (BPH-12). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1285 [QEC 435.0] DW Roberts (BPH-13). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1286 [QEC 436.0] DW Roberts (BPH-4). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1290 [QEC 437.0] DW Roberts (BPH-11). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.
- 1299 [ARSEF 1045; EPABA A-24] DW Roberts ← E Matta. [Hemiptera: Cercopidae]. Aug 1978. Brazil: Bahia.
- 1300 [QEC 438.0] DW Roberts (VIII). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Plant Physiology Plot, IRRI, Los Baños, Manila.
- 1304 [QEC 439.0] DW Roberts (D). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.
- 1379 [EPABA A-12] DW Roberts ← E Matta. [Hemiptera: Cercopidae]. 22 Aug 1978. Brazil: Bahia.
- 1382 [EPABA A-10] DW Roberts ← E Matta. [Hemiptera: Cercopidae]. 22 Aug 1978. Brazil: Bahia.
- 1432 MC Rombach (B). *Scotinophara coarctata* [Hemiptera: Pentatomidae]. 14 Apr 1984. Philippines: Maasin, Palawan.
- 1449 [CNPAF 84-1-26; CP 123] BP Magalhães. *Deois incompleta* [Hemiptera: Cercopidae]. 26 Jan 1984. Brazil: Altamira, Pará.
- 1548 MC Rombach (Ma Pal.I). Adult, *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. May 1984. Philippines: nr. PNAC Station, Arbor Lan, Palawan.
- 1726 DW Roberts (291013) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Paddy Breeding Station, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 1727 DW Roberts (291015) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Paddy Breeding Station, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 1728 DW Roberts (291001) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 1744 DW Roberts (291014) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Paddy Breeding Station, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 1745 DW Roberts (291016) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Paddy Breeding Station, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.

- 1823 DW Roberts (29103b) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 1882 [CP 171] DW Roberts ← C Czepak. *Tibraca limbativentres* [Hemiptera: Pentatomidae]. 3 Jan 1985. Brazil: CNPAF, Goiânia, Goiás.
- 1890 DW Roberts ← RA Daoust (ZcG3). [Hemiptera: Cercopidae]. Jan 1980. Brazil: Pará.
- 1891 DW Roberts ← MA Naves (460(88)). [Hemiptera: Cercopidae]. Jan 1980. Brazil: Pará.
- 1895 DW Roberts ← RA Daoust (ZcG1). [Hemiptera: Cercopidae]. Jan 1980. Brazil: Pará.
- 1896 [EPABA A-8(BAMC)] DW Roberts ← E Matta. *Mahanarva posticata* [Hemiptera: Cercopidae]. Rec'd Aug 1978. Brazil: Salvador, Bahia.
- 1898 [EPABA A-18 (BAMC)] DW Roberts ← E Matta. *Mahanarva posticata* [Hemiptera: Cercopidae]. Rec'd Aug 1978. Brazil: Salvador, Bahia.
- 1899 [EPABA A-23] DW Roberts ← E Matta. [Hemiptera: Cercopidae]. Rec'd Aug 1978. Brazil.
- 1902 DW Roberts ← RA Daoust (ZcG4). [Hemiptera: Cercopidae]. Jan 1980. Brazil.
- 1911 [EPABA A-2] DW Roberts ← E Matta. [Hemiptera: Cercopidae]. Rec'd Aug 1978. Brazil.
- 1970 [CNPAF 82-12-01; CP 170] C Czepak. *Deois flavopicta* [Hemiptera: Cercopidae]. 1 Dec 1984. Brazil: CNPAF, Goiânia, Goiás.
- 2038 MC Rombach (161085-35) ← SB Ahn (D2-4). *Nilaparvata lugens* [Hemiptera: Delphacidae] on rice. 16 Oct 1985. Republic of Korea.
- 2039 MC Rombach (161085-36) ← SB Ahn (E2-13). *Nilaparvata lugens* [Hemiptera: Delphacidae] on rice. 16 Oct 1985. Republic of Korea.
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- 2343 [ARSEF 2385 (never frozen)] MC Rombach (120286-4). *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. 12 Feb 1986. Philippines: Palawan.
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- 4901 LA Lacey (95003). [Hemiptera]. Rec'd 27 Apr 1995. Location not specified.
- 4902 LA Lacey (95004). [Hemiptera]. Rec'd 27 Apr 1995. Location not specified.
- 6319 Adult, male, *Aeneolamia varia* [Hemiptera: Cercopidae]. 25 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.
- 6321 Adult, male, *Mahanarva* sp. [Hemiptera: Cercopidae]. 25 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.
- 6322 Adult, male, *Mahanarva* sp. [Hemiptera: Cercopidae]. 25 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.
- 6323 Adult, female, *Zulia pubescens* [Hemiptera: Cercopidae]. 25 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.
- 6342 Adult, *Aeneolamia varia* [Hemiptera: Cercopidae]. 12 Feb 1999. Colombia: CIAT Farm, Palmira, Valle.
- 6343 Nymph, *Aeneolamia varia* [Hemiptera: Cercopidae]. 11 May 1999. Colombia: CIAT Farm, Palmira, Valle.
- 6345 Adult, *Aeneolamia varia* [Hemiptera: Cercopidae]. 11 May 1999. Colombia: CIAT Farm, Palmira, Valle.
- 6346 Adult, *Aeneolamia varia* [Hemiptera: Cercopidae]. 11 May 1999. Colombia: CIAT Farm, Palmira, Valle.
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- 6468 [CIAT 053] D Peck. Adult, female, *Zulia carbonaria* [Hemiptera: Cercopidae]. 2 Jun 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.
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- 8377 [CEP 178; LPSC 909] AV Toledo. Adult, *Kanaima fluvialis* [Hemiptera: Cercopidae] on *Eryngium* sp. (Apiaceae). Nov 2004. Argentina: Bella Vista, Corrientes.
- 8498 [CSIRO FI-0390] [Hemiptera: Cercopidae]. 29 Mar 1989. Brazil.
- 8527 [CEP 122] AV Toledo. Adult, [Hemiptera: Cercopidae] on *Eryngium* sp. (Apiaceae). 18 May 2004. Argentina: La Plata, Buenos Aires.
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- 10136 [ERL 1796] S Gouli (Thr.-10-14) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10137 [ERL 1797] S Gouli and V Gouli (Thr.-10-15). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 11840 [ERL 2021] S Gouli and V Gouli (THR-11-13). [Thysanoptera: Thripidae]. 2011. USA: Underhill, Vermont.
- Metarhizium anisopliae* sensu stricto** (Metschnikoff) Sorokin
[Sordariomycetes: Hypocreales]
Clavicipitaceae. These isolates have been confirmed to belong in this narrowly redefined species in an emergent genomically based classification.
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- 798 DA Rodriguez Sierra. Nymph, *Aeneolamia varia* [Hemiptera: Cercopidae]. 1979. Colombia: Villavicencio, Meta.
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- 1045 [ARSEF 1299; EPABA A-24] DW Roberts ← E Matta. [Hemiptera: Cercopidae]. Aug 1978. Brazil: Bahia.
- 1883 [CENARGEN CG 168; CP 172] DW Roberts ← JFS Martins. *Tibraca limbativentres* [Hemiptera: Pentatomidae]. 11 Jan 1985. Brazil: CNPAF, Goiânia, Goiás.
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- 2153 MC Rombach (200386-2). *Nephotettix virescens* [Hemiptera: Cicadellidae]. 20 Mar 1986. Indonesia: Maros Research Institute, Maros, Sulawesi Selatan, Celebes.
- 2421 DG Holdom (050187-5). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 Jan 1987. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
- 2517 [CP 226] F Moscardi. *Deois flavopicta* [Hemiptera: Cercopidae]. Acc'd 8 Dec 1987. Brazil: Joquapita.
- 2627 [CNPAF PI-43; CP 242] DW Roberts ← Planalsucar. *Mahanarva posticata* [Hemiptera: Cercopidae]. 23 May 1988. Brazil: Usina Pedrosa, Pernambuco.
- 3621 IMI (299982). *Aeneolamia varia* [Hemiptera: Cercopidae]. Rec'd 26 Feb 1992. Trinidad and Tobago.
- 6317 [CIAT 001] D Peck. Adult, *Zulia pubescens* [Hemiptera: Cercopidae]. 12 Feb 1998. Colombia: Florencia, Caquetá.
- 6318 Adult, male, *Zulia pubescens* [Hemiptera: Cercopidae]. 25 Jun 1998. Colombia: Norglandia Farm, Albania, Caquetá.
- 6347 Nymph, *Aeneolamia varia* [Hemiptera: Cercopidae]. 11 May 1999. Colombia: CIAT Farm, Palmira, Valle.
- 7979 [IBCB 348] *Mahanarva fimbriolata* [Hemiptera: Cercopidae]. Rec'd 29 Mar 2006. Brazil: São Paulo. Metarraz commercial product from Biocontrol, Brazil. **RESTRICTED ACCESS:** consult Curator.
- 7980 [ARSEF 2627; CNPAF PL-43; IBCB CP 242] *Mahanarva posticata* [Hemiptera: Cercopidae]. Rec'd 29 Mar 2006. Brazil: Cortês, Pernambuco. Commercial product from Biotech, Brazil. **RESTRICTED ACCESS:** consult Curator.

7981 [CENARGEN CG 858; IBCB 10] *Mahanarva fimbriolata* [Hemiptera: Cercopidae]. Rec'd 29 Mar 2006. Brazil: Araçatuba, São Paulo. Commercial product from BioCerto, Brazil. **RESTRICTED ACCESS:** consult Curator.

Metarhizium brunneum Petch

[Sordariomycetes: Hypocreales]

Clavicipitaceae. Restored from synonymy variously with *M. anisopliae* and *M. album* as part of the genomic classification of Bischoff et al. (2009).

455 [QEC 410.0] RS Soper. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.

***Metarhizium flavoviride* 'Type E'** (see Driver et al., 2000)

[Sordariomycetes: Hypocreales]

Clavicipitaceae. Species remaining here need genomic confirmation before reclassification under the classification of Bischoff et al. (2009).

2948 [CP 271] SP Wraight ← LG Leite. [Hemiptera: Cicadellidae]. 30 Apr 1989. Brazil: Campinas, São Paulo.

Metarhizium flavoviride* var. *minus Rombach,

Humber & Roberts

[Sordariomycetes: Hypocreales]

Clavicipitaceae

1099 DW Roberts (A8). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 13 Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1271 DW Roberts (S). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Aug 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.

1272 DW Roberts (Bq). Biotype 2, *Nilaparvata lugens* [Hemiptera: Delphacidae]. 13 Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1273 DW Roberts (T2). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.

1274 DW Roberts (BPH-5). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1275 DW Roberts (BPH-8). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1276 DW Roberts (IV). Biotype 1, *Nilaparvata lugens* [Hemiptera: Delphacidae]. 13 Sep 1983. Philippines: Plant Breeding, IRRI, Los Baños, Manila.

1277 DW Roberts (I). Biotype 1, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Plant Breeding, IRRI, Los Baños, Manila.

1279 DW Roberts (IX). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Plant Physiology Plot, IRRI, Los Baños, Manila.

1283 DW Roberts (VII). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Plant Physiology Field, IRRI, Los Baños, Manila.

1287 DW Roberts (BPH-10). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1288 DW Roberts ((i)I). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.

1289 DW Roberts (BPH-7). Biotype 3, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1291 DW Roberts (A1). Biotype 1, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1292 DW Roberts (C). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.

1293 DW Roberts (H). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.

1294 [ARSEF ?1295] DW Roberts (BPH-3[?]). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1295 [ARSEF ?1294] DW Roberts (BPH-3[?]). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.

1296 DW Roberts (BPH-6). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1297 DW Roberts (A9). Biotype 1, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1301 DW Roberts (VI). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Plant Physiology Plot, IRRI, Los Baños, Manila.

1302 DW Roberts (5A). Biotype 1, *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1303 DW Roberts (A10). Biotype 1, *Nilaparvata lugens* [Hemiptera: Delphacidae]. 13 Sep 1983. Philippines: greenhouse, IRRI, Los Baños, Manila.

1305 DW Roberts (R). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Sep 1983. Philippines: Sipit Area, IRRI, Los Baños, Manila.

1546 MC Rombach (Lib.11) ← RM Aguda. *Recilia dorsalis* [Hemiptera: Cicadellidae] on rice. 1983. Philippines: Bicol region.

1547 MC Rombach (Lib.16) ← RM Aguda. *Recilia dorsalis* [Hemiptera: Cicadellidae] on rice. 1983. Philippines: Bicol region.

1763 [ATCC 200913] MC Rombach ← T Ho (Sol-31). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.

- 1764 MC Rombach ← T Ho (Sol-3). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1765 MC Rombach ← T Ho (Sol-28). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1766 MC Rombach ← T Ho (Sol-5). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1767 MC Rombach ← T Ho (Sol-17). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1768 MC Rombach ← T Ho (Sol-7). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1769 MC Rombach ← T Ho (Sol-14). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1770 MC Rombach ← T Ho (Sol-30). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1771 MC Rombach ← T Ho (Sol-4). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1772 MC Rombach ← T Ho (Sol-11). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1773 MC Rombach ← T Ho (Sol-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Nov 1984. Solomon Islands: SolRice, Honiara, Guadalcanal.
- 1945 MC Rombach (MALBIRRI). *Nephotettix virescens* [Hemiptera: Cicadellidae]. Acc'd 11 Sep 1985. Philippines: IRRI, Los Baños, Manila.
- 2037 MC Rombach (051185-4). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 5 Nov 1985. Philippines: IRRI, Los Baños, Manila. CULTURE EX TYPE.
- 2339 MC Rombach (120186-2). [Hemiptera: Cicadellidae] on rice. 12 Jan 1986. Philippines: Palawan.
- Metarhizium flavoviride* var. *pemphigum*** Driver, Milner & Trueman
[Sordariomycetes: Hypocreales]
Clavicipitaceae
-
- 6569 D Chandler (HRI 99.82). *Pemphigus trehernei* [Hemiptera: Aphididae]. Rec'd 13 Jul 2000. United Kingdom: coastal salt marshes, Norfolk, England.
- 7491 [CSIRO FI-1101] *Pemphigus* sp. [Hemiptera: Aphididae]. 12 May 1994. United Kingdom: Norfolk, England.
- Metarhizium pingshaense*** QT Chen & HL Guo
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Genomically confirmed and distinguished from *M. anisopliae* by the reclassification of Bischoff et al. (2009).
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- 576 [QEC 427.0] RS Soper (8133-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 3 Mar 1981. Indonesia: insect rearings, Maros Research Center, Maros, Sulawesi Selatan, Celebes.
- 1448 [CNPAF 83-12-27; CP 122] E Ferreira. *Scaptos castanea* [Hemiptera: Cydnidae]. 27 Dec 1983. Brazil: Goiatuba, Goiás.
- 1545 MC Rombach (Ma Pal.II). Adult, *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. Jun 1984. Philippines: Brooke's Point region, Palawan.
- 1724 DW Roberts (29103) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 1725 DW Roberts (291017) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Paddy Breeding Station, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 1729 DW Roberts (2910B) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 29 Oct 1984. India: greenhouse, Tamil Nadu Ag. Univ., Coimbatore, Tamil Nadu.
- 2043 MC Rombach (061185-1). *Nephotettix cincticeps* [Hemiptera: Cicadellidae]. 6 Nov 1985. Philippines: IRRI field, Los Baños, Manila.
- 2106 DG Holdom (100286-3). *Nephotettix virescens* [Hemiptera: Cicadellidae]. 10 Feb 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
- Metarhizium robertsii*** JF Bischoff, SA Rehner & Humber
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Segregated from *M. anisopliae* as part of a genomic reclassification by Bischoff et al. (2009). A complete genomic sequence of ARSEF 8820 (a single-spored reisolat of ARSEF 2575) is being compiled.
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- 1952 [CNPAF 85-7-21; CP 177] SM dos Santos. ?*Cirtone mus* sp. [Hemiptera: Cydnidae]. 27 Jul 1985. Brazil: Goiânia, Goiás.
- 3925 DR Sosa-Gómez (CNPSO-Ma60). [Hemiptera: Cicadidae]. 19 Feb 1992. Argentina: San Miguel de Tucumán, Tucumán.
- Mixed Culture* sp.**
The two members in these mixed cultures have not been successfully separated.
-
- 4066 T Steenberg (BT5). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Tobacco. Jul 1989. Denmark: Greenhouse, Lyngby, Zealand. Mixed culture: *V. lecanii* + (??) *Phialophora* sp.
- 4403 LA Lacey (94063). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] eggplant. 24 Mar 1994. Malaysia: Kuala Terla. *Paecilomyces fumosoroseus* and *Beauveria bassiana*.

Moelleriella umbospora P. Chaverri & K.T. Hodge
[Sordariomycetes: Hypocreales]
Clavicipitaceae

- 11870 L Guizar-Guzman and SR Sánchez Peña (U-1).
[Hemiptera: Coccoidea] on vine in rainforest habitat.
11 Oct 2012. Mexico: Filobobos River, Tlapacoyan,
Veracruz. N 19.961409, W 97.157936.
- 11871 L Guizar-Guzman and SR Sánchez Peña (U-2).
[Hemiptera: Coccoidea] on vine in rainforest habitat.
11 Oct 2012. Mexico: Filobobos River, Tlapacoyan,
Veracruz. N 19.961409, W 97.157936.

***Mucor* sp.**
[Mucormycotina: Mucorales]
Mucoraceae

- 3535 J Hernández Ramírez (1). *Zulia vilior costarricensis*
[Hemiptera: Cercopidae]. Rec'd 23 Jan 1992. Costa
Rica.

***Myriangium* sp.**
[Dothideomycetes: Myriangiales]

- 9915 [ERL 1748] S Gouli (HWA-G-26) and V Gouli.
Adelges tsugae [Hemiptera: Adelgidae]. 2009. USA:
New Hampshire.
- 9916 [ERL 1749] S Gouli and V Gouli (HWA-G-27).
Adelges tsugae [Hemiptera: Adelgidae]. 2009. USA:
New Hampshire.
- 9917 [ERL 1750] S Gouli (HWA-G-28) and V Gouli.
Adelges tsugae [Hemiptera: Adelgidae]. 2009. USA:
New Hampshire.
- 9918 [ERL 1751] S Gouli and V Gouli (HWA-G-29).
Adelges tsugae [Hemiptera: Adelgidae]. Winter 2009.
USA: New Hampshire.
- 9919 [ERL 1752] S Gouli (HWA-G-30) and V Gouli.
Adelges tsugae [Hemiptera: Adelgidae]. 2009. USA:
New Hampshire.
- 11852 [ERL 2085] S Gouli and V Gouli (EHS-12-4). *Fiorinia*
externa [Hemiptera: Diaspididae]. 2012. USA: East
Granby, Connecticut.
- 11853 [ERL 2086] S Gouli (EHS-12-5) and V Gouli. *Fiorinia*
externa [Hemiptera: Diaspididae]. 2012. USA: East
Granby, Connecticut.
- 11854 [ERL 2087] S Gouli and V Gouli (EHS-11-3).
Fiorinia externa [Hemiptera: Diaspididae]. 2011.
USA: Harriman State Park, New York.
- 11855 [ERL 2088] S Gouli (EHS-11-4) and V Gouli.
Fiorinia externa [Hemiptera: Diaspididae]. 2011.
USA: Harriman State Park, New York.
- 11856 [ERL 2089] S Gouli and V Gouli (HWA-11-M3).
Adelges tsugae [Hemiptera: Adelgidae]. 2011. USA:
Brattleboro, Vermont.
- 11857 [ERL 2090] S Gouli (HWA-11-M1) and V Gouli.
Adelges tsugae [Hemiptera: Adelgidae]. 2011. USA:
Harriman State Park, New York.

- 11858 [ERL 2091] S Gouli and V Gouli (HWA-12-M1).
Adelges tsugae [Hemiptera: Adelgidae]. 2012. USA:
East Granby, Connecticut.

Myriangium duriaei Mont. & Berk.
[Dothideomycetes: Myriangiales]

- 8924 [ERL 1533] S Gouli (EHS) and V Gouli. *Fiorinia*
externa [Hemiptera: Diaspididae]. 2005. USA: New
York.
- 8925 [ERL 1538] S Gouli (EHS). *Fiorinia externa* [Hem-
iptera: Diaspididae]. 2006. USA: New York.

Myriodontium keratinophilum Samson & Polonelli
[Eurotiomycetes: Onygenales]

- 11837 [ERL 2079] S Gouli and V Gouli (EHS-12-2). *Fiorinia*
externa [Hemiptera: Diaspididae]. 2012. USA: East
Granby, Connecticut.
- 11838 [ERL 2081] S Gouli and V Gouli (HWA-12-1).
Adelges tsugae [Hemiptera: Adelgidae]. 2012. USA:
East Granby, Connecticut.

Neozygites parvispora (DM MacLeod & KP Carl)
Remaudière & S Keller
[Entomophthoromycotina: Entomophthorales]
Neozygitaceae

- 5620 A Grundschober (301). *Thrips tabaci* [Thysanoptera:
Thripidae] on *Allium porrum*. 17 Oct 1996. Switzer-
land: organic vegetable farm in Winkel, Bülach,
Zurich.
- 5621 A Grundschober (302). *Thrips tabaci* [Thysanoptera:
Thripidae] on *Allium porrum*. 17 Oct 1996. Switzer-
land: organic vegetable farm in Winkel, Bülach,
Zurich.

Nomuraea cylindrospora (Chen & Guo) Tzean, Hsieh,
Chen & Wu
[Sordariomycetes: Hypocreales]
Clavicipitaceae

- 6926 SS Tzean (PPH 13E). *Pomponia linearis* [Hemiptera:
Cicadidae]. 1 Jun 1990. Republic of China: Wulai,
Taipei, Taiwan.

Nomuraea rileyi (Farlow) Samson
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Early vegetative development of cultures
on solid media usually occurs in mucoid colonies of fusoid
yeast-like cells: mycelial development should begin after
several days. Most strains are observed to sporulate
most abundantly on Sabouraud maltose agar + 1% yeast
extract.

- 558 RS Soper (8133-3). *Sogatella furcifera* [Hemiptera:
Delphacidae]. 3 Mar 1981. Indonesia: Sigere, Pangka-
jene, Sulawesi Selatan, Celebes.

Nomuraea viridulus Tzean, Hsieh, Chen & Wu
[Sordariomycetes: Hypocreales]
Clavicipitaceae

6927 SS Tzean (PPh 14E). *Cryptotympana facialis* [Hemiptera: Cicadidae]. 2 Jul 2000. Republic of China: Yangmingshan National Park, Taipei, Taiwan.

Ophiocordyceps heteropoda (Kobayasi) GH Sung, JM Sung, Hywel-Jones & Spatafora
[Sordariomycetes: Hypocreales]

Ophiocordycipitaceae. Synonym: *Cordyceps heteropoda* Kobayasi. This species has not produced stromata, perithecia, or ascospores in culture. Vegetative hyphae and conidia are all that have been observed with standard culture media and routine physical conditions of incubation in the laboratory and/or incubator.

1880 K Chandler and RA Humber. *Cicadetta puer* [Hemiptera: Cicadidae]. 22 Feb 1985. Australia: Cairns, Queensland.

***Paecilomyces* sp.**

[Sordariomycetes: Hypocreales]

These still unidentified species has yet been assigned to a correct genus after the recent gene-based reclassification of species out of *Paecilomyces* Section *Isarioidea*; this original generic identification remains provisional until a more thorough analyses of these isolates are completed.

680 DW Roberts (101081-6). *Recilia dorsalis* [Hemiptera: Cicadellidae]. 10 Oct 1981. PR China: Jansui, Jiangsu.

3101 L Loch (CB-75). *Nezara viridula* [Hemiptera: Pentatomidae]. 1986. Brazil: Piracicaba, São Paulo.

3772 SP Wraight (F92-5) ← J Salinas. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 17 Apr 1992. USA: USDA-APHIS Biological Control Laboratory Greenhouse, Mission, Texas.

3774 SP Wraight (SPW-5). Larva, *Bemisia tabaci* [Hemiptera: Aleyrodidae] poinsettia leaves. 24 Aug 1992. USA: Weslaco, Texas.

3775 SP Wraight (SPW-6). Larva, *Bemisia tabaci* [Hemiptera: Aleyrodidae] poinsettia leaves. 24 Aug 1992. USA: Weslaco, Texas.

3777 SP Wraight (SPW-12). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] poinsettia leaves. 24 Aug 1992. USA: Weslaco, Texas.

3780 SP Wraight (SPW-7). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] poinsettia leaves. 24 Aug 1992. USA: Weslaco, Texas.

3781 SP Wraight (SPW-8). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] poinsettia leaves. 24 Aug 1992. USA: Weslaco, Texas.

3782 SP Wraight (SPW-9). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] poinsettia leaves. 24 Aug 1992. USA: Weslaco, Texas.

3783 SP Wraight (SPW-9). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] cotton leaves. 12 Jun 1992. USA: Weslaco, Texas.

3784 SP Wraight (SPW-1). Larva, *Bemisia tabaci* [Hemiptera: Aleyrodidae] poinsettia leaves. 12 Jun 1992. USA: Weslaco, Texas.

3785 SP Wraight (SPW-5). Larva, *Bemisia tabaci* [Hemiptera: Aleyrodidae] poinsettia leaves. 24 Aug 1992. USA: Weslaco, Texas.

3786 SP Wraight (SPW-10). Larva, *Bemisia tabaci* [Hemiptera: Aleyrodidae] poinsettia leaves. 24 Aug 1992. USA: Weslaco, Texas.

3787 SP Wraight () ← J Salinas (F92-6). *Bemisia tabaci* [Hemiptera: Aleyrodidae] eggplant leaves. 18 Apr 1992. USA: Mission, Texas.

3788 SP Wraight () ← B.A. Mullin (BO-1). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae] cotton leaves. 12 Jun 1992. USA: Weslaco, Texas.

3870 LA Lacey (92133) ← A Kirk. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 19 Sep 1992. Nepal: Katmandu.

3871 LA Lacey (92135) ← A Kirk. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 19 Sep 1993. Nepal: Katmandu.

3872 LA Lacey (92137) ← A Kirk. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 19 Sep 1993. Nepal: Katmandu.

3873 LA Lacey (Pfr19). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 11 Apr 1992. India: Padappai.

3874 LA Lacey (92114) ← D Shakeel. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 14 Oct 1992. Pakistan: Multan.

3875 LA Lacey (92115) ← D Shakeel. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 11 Oct 1992. Pakistan: Multan.

3877 LA Lacey (92117) ← D Shakeel. *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 11 Oct 1992. Pakistan: Multan.

4985 LA Lacey (95041). *Bemisia tabaci* [Hemiptera: Aleyrodidae] Cabbage. 22 May 1995. Taiwan: AVRDC-Greenhouse.

4986 LA Lacey (95042). *Bemisia tabaci* [Hemiptera: Aleyrodidae] cabbage. 22 May 1995. Taiwan: AVRDC-Greenhouse.

4987 LA Lacey (95043). *Bemisia tabaci* [Hemiptera: Aleyrodidae] cabbage. 22 May 1995. Taiwan: AVRDC-Greenhouse.

4988 LA Lacey (95044). *Bemisia tabaci* [Hemiptera: Aleyrodidae] cabbage. 22 May 1995. Taiwan: AVRDC-Greenhouse.

4989 LA Lacey (95045). *Bemisia tabaci* [Hemiptera: Aleyrodidae] cabbage. 22 May 1995. Taiwan: AVRDC-Greenhouse.

5091 LA Lacey (95081). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.

5092 LA Lacey (95082). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.

5093 LA Lacey (95083). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.

5094 LA Lacey (95084). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.

- 5095 LA Lacey (95085). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5096 LA Lacey (95086). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5097 LA Lacey (95087). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5098 LA Lacey (95088). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5099 LA Lacey (95089). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5100 LA Lacey (95090). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5101 LA Lacey (95091). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5102 LA Lacey (95092). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5103 LA Lacey (95093). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5104 LA Lacey (95094). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5105 LA Lacey (95095). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5106 LA Lacey (95096). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5108 LA Lacey (95098). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5109 LA Lacey (95099). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5110 LA Lacey (95100). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5111 LA Lacey (95101). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5112 LA Lacey (95102). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5114 LA Lacey (95104). Adult, *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 12 Dec 1995. Pakistan: Multan.
- 5160 DR Sosa-Gómez (CNPSO-P83). *Bemisia argentifolii* [Hemiptera: Aleyrodidae]. 14 Mar 1996. Brazil: Primeiro de Maio, Paraná.
- 5179 S Gouli (GA-88). *Adelges tsugae* [Hemiptera: Adelgidae] on *Tsuga canadensis*. 14 Feb 1996. USA: Mt. Tom, Holyoke, Massachusetts.
- 5180 S Gouli (GA-89). *Adelges tsugae* [Hemiptera: Adelgidae] on *Tsuga canadensis*. 14 Mar 1996. USA: Mt. Tom, Holyoke, Massachusetts.
- 7075 KT Hodge (PR16). [Hemiptera: Pentatomidae] on *Acanthaceae*. 5 Jul 2002. USA: El Yunque, Caribbean National Forest, Anhalito Trail, tabonuco forest, Río Grande Municipio, Puerto Rico.
- 8316 JM Meyer. Adult, *Diaphorina citri* [Hemiptera: Psyllidae]. Oct 2005. USA: Polk County, Florida. 28°06'295" N, 81°42'895" W.

Paecilomyces carneus (Duché & R. Heim) A.H.S. Br. & G. Sm.
[Sordariomycetes: Hypocreales]
?Clavicipitaceae

- 11821 [ERL 2018] S Gouli (THR-11-10) and V Gouli. [Thysanoptera: Thripidae]. 2011. USA: Richford, Vermont.

Paecilomyces crustaceus(?) Apinis & Chesters
[Eurotiomycetes: Eurotiales]
Trichocomaceae. This species has not been reclassified into a correct genus according to its genomic sequences following the recent gene-based reclassification of *Paecilomyces* Section *Isarioidea*].

- 6462 [CIAT 047] D Peck. 5th instar larva, *Zulia carbonaria* [Hemiptera: Cercopidae]. 25 May 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.
- 6467 [CIAT 052] D Peck. Adult, *Zulia carbonaria* [Hemiptera: Cercopidae]. 25 May 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.

Paecilomyces lilacinus(?) (Thom) Samson
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae. This species has not been reclassified into a correct genus according to its genomic sequences following the recent gene-based reclassification of *Paecilomyces* Section *Isarioidea*].

- 6458 [CIAT 043] D Peck. Adult, female, *Zulia carbonaria* [Hemiptera: Cercopidae]. 26 May 1999. Colombia: Santander de Quilichao, Cauca.

Paecilomyces marquandii (Masse) Hughes
[Sordariomycetes: Hypocreales]
Clavicipitaceae. This species has been placed in the Hypocreales by phylogenetic analysis but not into a correct genus according to its genomic sequences. The recent reclassification of *Paecilomyces* Section *Isarioidea* requires this species placement in a different genus.

- 9928 [ERL 1772] S Gouli (Thr.-09-4) and V Gouli. [Thysanoptera: Thripidae]. 2010. USA: Vermont.
- 9929 [ERL 1773] S Gouli and V Gouli (Thr.-09-5). [Thysanoptera: Thripidae]. 2010. USA: Vermont.

Pandora delphacis (Hori) Humber
[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

- 134 M Shimazu. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 1975. Japan: Fukuoka, Fukuoka Prefecture.
- 458 RS Soper. *Nephotettix cincticeps* [Hemiptera: Cicadellidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 459 RS Soper. *Nephotettix cincticeps* [Hemiptera: Cicadellidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.

- 460 RS Soper. *Nephotettix cincticeps* [Hemiptera: Cicadellidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 461 RS Soper. *Nephotettix cincticeps* [Hemiptera: Cicadellidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 478 RS Soper (B). *Nephotettix cincticeps* [Hemiptera: Cicadellidae]. 5 May 1980. Philippines: IRRI, Los Baños, Manila.
- 575 RS Soper (8132-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 2 Mar 1981. Indonesia: Desa Dasan Tereng Village, Kecamatan Narmada District, Lombok Island.
- 579 RS Soper (8132-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 2 Mar 1981. Indonesia: Desa Dasan Tereng Village, Kecamatan Narmada District, Lombok Island.
- 580 RS Soper (81223-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 23 Feb 1981. Indonesia: Bangun Village, Kecamatan Tanjung, Deliserdang District, Sumatera Utara, Sumatra.
- 593 [CSIRO EM654] RS Soper (8133-2). *Sogatella furcifera* [Hemiptera: Delphacidae]. 3 Mar 1981. Indonesia: Pangkep Kaba, Sulawesi Selatan, Celebes.
- 603 RS Soper (8133-2). *Sogatella furcifera* [Hemiptera: Delphacidae]. 3 Mar 1981. Indonesia: Pangkep Kaba, Sulawesi Selatan, Celebes.
- 657 DW Roberts (101081-4). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 10 Oct 1981. PR China: Jansui, Jiangsu.
- 659 DW Roberts (101081-6-2). *Recilia dorsalis* [Hemiptera: Cicadellidae]. 10 Oct 1981. PR China: Jansui, Jiangsu.
- 660 DW Roberts (101081-6-2). *Recilia dorsalis* [Hemiptera: Cicadellidae]. 10 Oct 1981. PR China: Jiangsu.
- 664 DW Roberts (100881-4-3). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 8 Oct 1981. PR China: Chansha, Hunan.
- 665 DW Roberts (102181-9). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 21 Oct 1981. PR China: Wuhan, Hupei.
- 666 DW Roberts (102181-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 21 Oct 1981. PR China: Wuhan, Hupei.
- 667 DW Roberts (102181-6). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 21 Oct 1981. PR China: Wuhan, Hupei.
- 668 DW Roberts (101081-3). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 10 Oct 1981. PR China: Nanjing, Jiangsu.
- 669 DW Roberts (102181-2). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 21 Oct 1981. PR China: Wuhan, Hupei.
- 670 DW Roberts (101381-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 13 Oct 1981. PR China: Hangzhou, Zhijiang.
- 672 DW Roberts (101081-5-3). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 10 Oct 1981. PR China: Nanjing, Jiangsu.
- 673 DW Roberts (100981-3). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 9 Oct 1981. PR China: Nanjing, Jiangsu.
- 674 DW Roberts (100981-4). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 9 Oct 1981. PR China: Nanjing, Jiangsu.
- 676 DW Roberts (102181-5). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 21 Oct 1981. PR China: Wuhan, Hupei.
- 682 DW Roberts (101081-2-3). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 10 Oct 1981. PR China: Nanjing, Jiangsu.
- 686 DW Roberts (101081-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 10 Oct 1981. PR China: Jiangsu.
- 698 *Nilaparvata lugens* [Hemiptera: Delphacidae]. 11 Apr 1981. PR China: Wuhan, Hupei.
- 713 DW Roberts (102181-4). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 21 Oct 1981. PR China: Wuhan, Hupei.
- 716 DW Roberts (100981-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 9 Oct 1981. PR China: Nanjing, Jiangsu.
- 1124 M Shimazu (F-16). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Acc'd 29 Mar 1984. Japan: Fukuoka Prefecture.
- 1132 M Shimazu (F-32). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Acc'd 3 Apr 1984. Japan: Fukuoka Prefecture.
- 1133 M Shimazu (F-33). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Acc'd 3 Apr 1984. Japan: Fukuoka Prefecture.
- 1238 [CNPAF 84-04-13-1B; CP 138] DW Roberts. [Hemiptera: Cicadellidae]. 13 Apr 1984. Brazil: CNPAF, Goiânia, Goiás.
- 1264 J Aoki (Ent. 6) ← M Shimazu. *Nilaparvata lugens* [Hemiptera: Delphacidae]. Rec'd 7 Nov 1983. Japan: Chikugo, Fukuoka Prefecture.
- 1268 M Shimazu (F-56). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Acc'd 3 May 1984. Japan: Chikugo, Fukuoka Prefecture.
- 1730 DW Roberts (26108) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 26 Oct 1984. India: greenhouse, All India Coop. Rice Inv. Project, Hyderabad, Andhra Pradesh.
- 1731 DW Roberts (26105) and MC Rombach. *Nilaparvata lugens* [Hemiptera: Delphacidae]. 26 Oct 1984. India: greenhouse, All India Coop. Rice Inv. Project, Hyderabad, Andhra Pradesh.
- 1936 SG Wraight and SP Wraight (Q1). [Hemiptera: Cicadellidae]. 31 May 1985. Brazil: CNPAF, Goiânia, Goiás.

- 2028 JA Harper. *Spissistilus festinus* [Hemiptera: Membracidae]. Acc'd 28 Oct 1985. USA: Auburn, Alabama.
- 2091 DG Holdom (200186-2). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 20 Jan 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
- 2092 DG Holdom (260186-1). *Sogatella furcifera* [Hemiptera: Delphacidae]. 26 Jan 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
- 2093 DG Holdom (260186-2). *Sogatella furcifera* [Hemiptera: Delphacidae]. 26 Jan 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
- 2094 DG Holdom (270186). *Sogatodes pusanus* [Hemiptera: Delphacidae]. 27 Jan 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
- 2095 DG Holdom (020286). *Sogatella furcifera* [Hemiptera: Delphacidae]. 2 Feb 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
- 2096 DG Holdom (060286). *Sogatella furcifera* [Hemiptera: Delphacidae]. 6 Feb 1986. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
- 2409 DG Holdom (310187-1). *Sogatella furcifera* [Hemiptera: Delphacidae]. 31 Jan 1987. Indonesia: CIBA-GEIGY R & D Station, Cikampek, Jawa Barat, Java.
- 3062 M Wheeler. [Hemiptera: Miridae]. 13 Aug 1990. USA: Snapp field # 2D, Newark Valley, New York.
- 3072 M Wheeler ← H Firstencel. *Empoasca fabae* [Hemiptera: Cicadellidae]. 7 Aug 1990. USA: Snapp field # 8A, Newark Valley, New York.
- 3093 M Wheeler. *Empoasca fabae* [Hemiptera: Cicadellidae]. 11 Sep 1990. USA: Snapp field # 5G, Newark Valley, New York.
- 3094 M Wheeler. *Empoasca fabae* [Hemiptera: Cicadellidae]. 11 Sep 1990. USA: Snapp field # 4G, Newark Valley, New York.
- 3095 M Wheeler. *Empoasca fabae* [Hemiptera: Cicadellidae]. 10 Sep 1990. USA: Hoffman field # 2B, Catherine, New York.
- 3096 M Wheeler. *Empoasca fabae* [Hemiptera: Cicadellidae]. 10 Sep 1990. USA: Hoffman field # 1G, Catherine, New York.
- 3106 M Wheeler. *Empoasca fabae* [Hemiptera: Cicadellidae]. 20 Sep 1990. USA: Hoffman field # 4C, Catherine, New York.
- 3107 M Wheeler. *Empoasca fabae* [Hemiptera: Cicadellidae]. 28 Sep 1990. USA: Hoffman field # 1B, Catherine, New York.
- 3484 G Lorenz. *Spissistilus festinus* [Hemiptera: Membracidae] on soybeans (*Glycine max*). 18 Oct 1991. USA: Lonoke County, Arkansas.

6538 MG Feng (F95125). *Sogatella furcifera* [Hemiptera: Delphacidae] on late-season rice. Fall 1995. PR China: Fuyang, Zhejiang Province.

6539 MG Feng (F95129). *Sogatella furcifera* [Hemiptera: Delphacidae] on late-season rice. 6 Nov 1995. PR China: Fuyang, Zhejiang Province.

Pandora heteropterae (Balazy) S Keller
 [Entomophthoromycotina: Entomophthorales]
 Entomophthoraceae

9266 JJ Hannam. *Lygus lineolaris* [Hemiptera: Miridae] collected from weeds on the edge of cornfield. 1 Sep 2008. USA: Johnson County, Arkansas. 35°23'34" N, 93°42'03" W.

Pandora kondoiensis (Milner, Mahon, & Brown)
 Humber
 [Entomophthoromycotina: Entomophthorales]
 Entomophthoraceae

369 [ARSEF 825] CSIRO (EM507) ← R Teakle. *Acyrtosiphon kondoi* [Hemiptera: Aphididae]. 5 Oct 1977. Australia: Brisbane, Queensland.

825 [ARSEF 369] CSIRO (EM507) ← R Teakle. *Acyrtosiphon kondoi* [Hemiptera: Aphididae]. 5 Oct 1977. Australia: Brisbane, Queensland.

828 CSIRO (EM598) ← RD Hughes. *Acyrtosiphon kondoi* [Hemiptera: Aphididae] on lucerne. 31 Jul 1980. Australia: Dubbo, New South Wales.

836 CSIRO (EM635) ← G Lutton. *Acyrtosiphon kondoi* [Hemiptera: Aphididae] on lucerne. 29 Sep 1981. Australia: 2 km SW of Gundagai, New South Wales.

837 CSIRO (EM600) ← RD Hughes. *Acyrtosiphon kondoi* [Hemiptera: Aphididae] on lucerne. 31 Jul 1980. Australia: Dubbo, New South Wales.

Pandora neoaphidis (Remaudière & Hennebert) Humber
 [Entomophthoromycotina: Entomophthorales]
 Entomophthoraceae

78 RG Kenneth (3072) or (E.a. 11) ← A Uziel. [Hemiptera: Aphididae] on *Solanum hirsutum*. Mar 1976. Israel: potato field, Achuzam.

128 [IPLB 52] JP Latgé and G Remaudière. *Aphis* sp. [Hemiptera: Aphididae] on *Cornus* sp. [Cornaceae]. 26 Aug 1976. Canada: Saint-Gédéon, Québec.

181 FR Holbrook. *Macrosiphum euphorbiae* [Hemiptera: Aphididae]. 9 Aug 1977. USA: Maine.

381 RS Soper. [Hemiptera: Aphididae]. 26 Feb 1979. Australia.

608 I Majchrowicz (80). *Aphis fabae* [Hemiptera: Aphididae]. Jul 1980. Poland: Szczecin.

609 I Majchrowicz (81). *Aphis fabae* [Hemiptera: Aphididae]. Jul 1980. Poland: Szczecin.

610 I Majchrowicz (82). *Aphis fabae* [Hemiptera: Aphididae]. Jul 1980. Poland: Szczecin.

- 611 I Majchrowicz (87). *Aphis fabae* [Hemiptera: Aphididae]. Aug 1980. Poland: Szczecin.
- 612 I Majchrowicz (88). *Aphis fabae* [Hemiptera: Aphididae]. Aug 1980. Poland: Szczecin.
- 613 I Majchrowicz (90). *Aphis fabae* [Hemiptera: Aphididae]. Aug 1980. Poland: Szczecin.
- 614 I Majchrowicz (91). *Aphis fabae* [Hemiptera: Aphididae]. Aug 1980. Poland: Szczecin.
- 636 I Majchrowicz (102). *Aphis fabae* [Hemiptera: Aphididae]. 3 Jul 1981. Poland: Szczecin.
- 637 I Majchrowicz (103). *Aphis fabae* [Hemiptera: Aphididae]. 6 Jul 1981. Poland: Stanpanel.
- 638 [CSIRO EM653] I Majchrowicz (104). *Aphis fabae* [Hemiptera: Aphididae]. 16 Jul 1981. Poland: Gumienc, Szczecin.
- 639 I Majchrowicz (105). *Aphis fabae* [Hemiptera: Aphididae]. 18 Jul 1981. Poland: Gryfino, Szczecin.
- 827 CSIRO (EM717) ← R.J. Huppertz. *Acyrtosiphon pisum* [Hemiptera: Aphididae]. 11 Jan 1982. Australia: 30 km from Deniliquin, Echuca, New South Wales.
- 829 CSIRO (EM736) ← L.T. Woolcock. *Hyperomyzus lactucae* [Hemiptera: Aphididae]. 29 Nov 1982. Australia: Murwillumbah, New South Wales.
- 830 CSIRO (EM723) ← R.J. Huppertz. *Acyrtosiphon pisum* [Hemiptera: Aphididae]. Fall 1982. Australia: Hamilton, Victoria.
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- 6902 MR McGuire. [Hemiptera: Aphididae] from roadside patch of *Malva* sp., mallow. 7 Feb 2001. USA: Intersection of Road 14 and Avenue 22, Madera County, California. Live aphids collected were a mixture of *Myzus persicae* Sulzer and *Aphis gossypii* Glover.
- 7212 AE Hajek (03 NY 7-3-4). *Aphis glycines* [Hemiptera: Aphididae]. 7 Aug 2003. USA: Field number 4, North Rose, New York.
- 7213 AE Hajek (03 NY 7-4-1). *Aphis glycines* [Hemiptera: Aphididae]. 7 Aug 2003. USA: Field number 4, North Rose, New York.
- 7214 AE Hajek (03 NY 7-4-2). *Aphis glycines* [Hemiptera: Aphididae]. 26 Aug 2003. USA: Field number 4, North Rose, New York.
- 7226 AE Hajek (03 NY 7-4-3). *Aphis glycines* [Hemiptera: Aphididae]. 27 Aug 2003. USA: Field number 4, North Rose, New York.
- 7937 J Enkerli (ETHZ 110). *Acyrtosiphon pisum* [Hemiptera: Aphididae]. 16 Jul 1998. Switzerland: Zurich.
- 7938 *Microlophium carnosum* [Hemiptera: Aphididae]. 2 Jul 1996. Switzerland: Schaffhausen.
- 7939 J Enkerli (ETHZ 115). *Microlophium carnosum* [Hemiptera: Aphididae]. 16 Jul 1998. Switzerland: Zurich.
- 8607 AE Hajek (03 NY 7-3-4). *Aphis glycines* [Hemiptera: Aphididae]. 7 Aug 2003. USA: Field number 4, North Rose, New York.
- 11662 X Zhou (ZAFU1004). *Myzus persicae* [Hemiptera: Aphididae]. 4 Oct 2010. PR China: Lin'an, Hangzhou, Zhejiang Province.
- 11663 KA Koch. *Acyrtosiphon pisum* [Hemiptera: Aphididae]. Jun 2008. USA: University of Minnesota Outreach, Research and Education Park, Rosemount, Minnesota. GPS Coordinates: N 44.7080722, W 93.0993032 Initially isolated from *Acyrtosiphon pisum* Harris, pea aphid.
- 11862 C López Lastra and R Manfrino. *Nasonovia ribisnigri* [Hemiptera: Aphididae] on *Lactuca sativa* L., lettuce. 18 Jun 2012. Argentina: Pereyra, Buenos Aires.
- 11863 C López Lastra and R Manfrino. *Nasonovia ribisnigri* [Hemiptera: Aphididae] on *Lactuca sativa* L., lettuce. 3 Jul 2012. Argentina: Abasto, Buenos Aires.

Pandora nouryi (Remaudière & Hennebert) Humber
[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

- 199 [CSIRO EM652] RT Mietkiewski. [Hemiptera: Aphididae] on potato. 1 Sep 1977. USA: Rogers Farm, Stillwater, Maine.
- 362 CSIRO (EM538) ← R Teakle. *Acyrtosiphon kondoi* [Hemiptera: Aphididae]. Rec'd 1979. Australia: Gatton, Queensland.
- 366 [IPLB 1066] CSIRO (EM542) ← JP Latgé. *Theorhaphis maculata* [Hemiptera: Aphididae]. Rec'd 22 Jan 1979. USA.
- 8930 MG Feng (ZJU0603) and ZH Huang. Air-trapped alate, *Lipaphis erysimi* [Hemiptera: Aphididae]. 23 Mar 2006. PR China: Menghai County, Yunnan Province.

8931 MG Feng (ZJU0604) and ZH Huang. Air-trapped alate, *Lipaphis erysimi* [Hemiptera: Aphididae]. Jun 2006. PR China: Menghai County, Yunnan Province.

***Penicillium* sp.**

[Eurotiomycetes: Eurotiales]

Trichocomaceae. No species of this genus have been satisfactorily demonstrated to be a primary pathogen of insects. Its presence on or in insect cadavers should be interpreted as necrophytic or accidental.

2643 DW Roberts ← VLRM Benassi. *Orthezia praelonga* [Hemiptera: Ortheziidae]. 12 Sep 1988. Brazil: Linhares, Espírito Santo.

6357 5th instar larva, *Zulia colombiana* [Hemiptera: Cercopidae]. 22 May 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.

6359 Adult, *Zulia colombiana* [Hemiptera: Cercopidae]. 18 May 1999. Colombia: La Palma Farm, Santander de Quilichao, Cauca.

***Phoma* sp.**

[Coelomycetes]

9920 [ERL 1755] S Gouli and V Gouli (HWA-G-33). *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: Maine.

9923 [ERL 1765] S Gouli and V Gouli (HWA-G-43). *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: New Hampshire.

***Polycephalomycetes ramosus* (Peck) Mains**

[Sordariomycetes: Hypocreales]

4858 JM Sung (C-419). Adult, [Hemiptera: Pentatomidae]. 3 Jul 1994. Republic of Korea: KNU Experiment Forest, Kangwon National University. Mycoparasite on stroma of *Cordyceps* sp. (perhaps *C. nutans*).

***Pseudogibellula formicarum* (Mains) Samson & HC**

Evans

[Sordariomycetes: Hypocreales]

2913 CBS (433.73) ← HC Evans. [Hemiptera: Cercopidae] on leaf of *Theobroma cacao*. 1973. Ghana: Tafo, Eastern. GenBank ITS sequence: AY945231.

5765 DG Holdom (980203-02). [Hemiptera: Flatidae ?] on *Lantana camara*. Mar 1998. Australia: Beechmont, Queensland.

5766 DG Holdom (980203-03). [Hemiptera: Flatidae ?] on *Lantana camara*. Mar 1998. Australia: Beechmont, Queensland.

***Purpureocillium lilacinum* (Thom) Luangsa-ard,**
 Houbraken, Hywel-Jones & Samson
 [Sordariomycetes: Hypocreales]

Synonym: it *Paecilomyces lilacinus*. Ophiocordycipitaceae. This species is the type of a monotypic new genus erected following the phylogenetic reclassification of *Paecilomyces* Section *Isarioidea*. This species can cause human mycoses, mainly of the eye, but probably presents little or no risk if handled with routine sterile microbiological techniques for transfers or bioassay procedures, etc. Avoid chronic and/or large-scale exposure to airborne conidia to minimize any health risks.

531 DW Roberts (82180-13b). [Hemiptera: Pentatomidae]. 21 Aug 1980. Malaysia.

763 PM Chang. *Scotinophara coarctata* [Hemiptera: Pentatomidae]. 3 Feb 1982. Malaysia: Rice Research Center, Mardi, Bumbong Lima, Icepala Batas, Wellesley Province.

2078 [CP 196] JC Lord and BP Magalhães. *Deois flavopicta* [Hemiptera: Cercopidae]. 1985. Brazil: Hidrolândia, Goiás.

2215 [CNPAF 86-06-05-2; CP 211] DW Roberts ← PMOJ Neves. *Tibraca limbativentres* [Hemiptera: Pentatomidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.

3481 CENARGEN (CG 36). Egg, *Deois flavopicta* [Hemiptera: Cercopidae]. Sep 1991. Brazil: Brasília, Distrito Federal.

3846 LA Lacey (92144). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] Jasmine. Rec'd 24 Nov 1992. India: Rampur.

6018 BL Parker ← V Gouli (SPT-R-183). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 18 Sep 1998. Russian Federation: Volgograd.

6021 BL Parker ← V Gouli (SPT-R-196). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.

6024 BL Parker ← V Gouli (SPT-R-206). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.

6026 BL Parker ← V Gouli (SPT-R-246). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.

6080 BL Parker (SPT-2-319/1). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.

6081 BL Parker (SPT-U-325). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 13 Jan 1999. Uzbekistan: GPS coordinates - N 40°52.116', E 069°55.812'.

6082 BL Parker (SPT-U-329). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 18 Jan 1999. Uzbekistan: GPS coordinates - N 40°50.450', E 069°56.680'.

- 6084 BL Parker (SPT-U-306). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: Site d, SW of Samarkand, Mirankul region.
- 6094 BL Parker (SPT-U-332). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 18 Jan 1999. Uzbekistan: GPS coordinates - N 40°50.450', E 069°56.680'.
- 6114 BL Parker (SPT-2-345). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 24 Jan 1999. Syria: Al Kseabiia.
- 6116 BL Parker (SPT-2-359). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 24 Jan 1999. Syria: Al Kseabiia.
- 6117 BL Parker (SPT-U-361). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 18 Jan 1999. Uzbekistan: GPS coordinates - N 40°50.450', E 069°56.680'.
- 6247 [RCEF 0200] [Hemiptera: Cicadidae]. 12 May 1997. PR China: Anhui.
- 6340 Adult, *Zulia pubescens* [Hemiptera: Cercopidae]. 23 Jan 1997. Colombia: Farm of C.I. Macagual, Florencia, Caquetá.
- 6494 BL Parker (SPT-KZ-431). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:.**

contact Curator

- 6502 BL Parker (SPT-KZ-461). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 4 Feb 2000. Kazakhstan: GPS Coordinates N 43°22.366' E 077°20.486'. **RESTRICTED ACCESS:.**

contact Curator

- 6985 [PPRI 7098] JL Hatting. *Diuraphis noxia* [Hemiptera: Aphididae]. 14 Jan 2002. South Africa: ARC-Small Grain Institute Greenhouse, Bethlehem, Free State.
- 7478 [CEP 071] C López Lastra. *Triatoma infestans* [Hemiptera: Reduviidae]. 17 Dec 2003. Argentina: Santiago del Estero.
- 9523 [SRCAMB VL-818] V Likhovidov. [Hemiptera: Cicadellidae]. 16 Jul 2002. Russian Federation: Kunashir Island, Sakhalin Region. Field Collection Number F-756.
- 9604 H Cortez Madrigal. [Hemiptera]. Rec'd 5 Mar 2010. Mexico: Yucatán.
- 9610 PB Avery (B2-1) or (1 DAT 10⁻²). *Singhiella simplex* [Hemiptera: Aleyrodidae] on leaf of *Ficus benjamina* L., weeping fig. 27 Sep 2009. USA: Edwards Road, Fort Pierce, Florida. Isolated from a leaf wash.
- 10225 A Khan. *Edessa mediatubunda* [Hemiptera: Pentatomidae] on *Datura* sp. 20 Jun 2010. West Indies: Barrackpore, Trinidad.

Rhinocladiella(?) sp.

[Eurotiomycetes: Chaetothyriales]
Herpotrichiellaceae

- 9365 [ERL 1665] S Gouli and V Gouli (HWA-G-22). *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: New Hampshire.

- 9922 [ERL 1763] S Gouli and V Gouli (HWA-G-41). *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: New Hampshire.
- 12080 [ERL 2167] S Gouli (PS-12/29) and V Gouli. Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Carya* sp., hickory. Sep 2012. USA: Charlestown, Rhode Island.
- 12081 [ERL 2168] S Gouli and V Gouli (PS-12/30). Imago, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Carya* sp., hickory. Sep 2012. USA: Charlestown, Rhode Island.
- 12082 [ERL 2169] S Gouli (PS-12/31) and V Gouli. Larva, *Parthenolecanium* sp. [Hemiptera: Coccidae] on *Quercus rubra* L., northern red oak. Sep 2012. USA: Charlestown, Rhode Island.

Scopulariopsis sp.

[Sordariomycetes: Microascales]

- 5164 S Gouli (GP-68). *Adelges tsugae* [Hemiptera: Adelgidae] on *Tsuga canadensis*. 29 Jan 1996. USA: Mt. Tom, Holyoke, Massachusetts.
- 8825 [CSIRO FI-1201] *Bemisia tabaci* [Hemiptera: Aleyrodidae] on *Brassica oleracea* L., cabbage. 30 Dec 1996. French Polynesia: Tahiti.
- 8826 [CSIRO FI-1202] *Bemisia tabaci* [Hemiptera: Aleyrodidae] on *Brassica oleracea* L., cabbage. 30 Dec 1996. French Polynesia: Tahiti.
- 8827 [CSIRO FI-1206] *Bemisia tabaci* [Hemiptera: Aleyrodidae] on *Lantana camara* L., lantana. 30 Dec 1996. French Polynesia: Tahiti.
- 10309 [ERL 1954] S Gouli and V Gouli (SB-10-1). *Halyomorpha halys* [Hemiptera: Pentatomidae]. Sep 2010. USA: New Jersey.
- 10310 [ERL 1955] S Gouli (SB-10-2) and V Gouli. *Halyomorpha halys* [Hemiptera: Pentatomidae]. Oct 2010. USA: New Jersey.

Septobasidium carestianum Bresadola

[Pucciniomycetes: Septobasidiales]

Septobasidiaceae

- 6473 DJ McLaughlin (DJM 644-SS6). [Hemiptera: spf. Coccoidea] on branches of *Cornus* sp. 29 Jun 1989. USA: Camp Gray, Baraboo, Wisconsin. Reference specimen in MIN.

Simplicillium sp.

[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 6584 G Sewify (6). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. Jul 1999. Egypt.

Simplicillium lamellicola (FEV Smith) Zare & W Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Verticillium lamellicola* (F.E.V. Smith) W Gams

- 9481 [SRCAMB VL-1695] V Likhovidov. [Hemiptera: Aleyrodidae]. 18 Sep 2004. Russian Federation: Caucasus region, Mostovsky District, Krasnodarsky Krai. Field Collection Number F-504.
- 11727 I Erper (TR-01). *Palomena prasina* [Hemiptera: Pentatomidae]. Rec'd 6 Feb 2012. Turkey: Giresun Province.
- 11728 I Erper (TR-02). *Palomena prasina* [Hemiptera: Pentatomidae]. Rec'd 6 Feb 2012. Turkey: Ordu Province.
- 11729 I Erper (TR-03). *Palomena prasina* [Hemiptera: Pentatomidae]. Rec'd 6 Feb 2012. Turkey: Giresun Province.
- 11732 I Erper (TR-06). *Palomena prasina* [Hemiptera: Pentatomidae]. Rec'd 6 Feb 2012. Turkey: Sakarya Province.
- 11735 I Erper (TR-09). *Palomena prasina* [Hemiptera: Pentatomidae]. Rec'd 6 Feb 2012. Turkey: Samsun Province.
- 11737 I Erper (TR-11). *Palomena prasina* [Hemiptera: Pentatomidae]. Rec'd 6 Feb 2012. Turkey: Sakarya Province.

Simplicillium lamellicola(?) (FEW Smith) Zare & W Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 11738 I Erper (TR-12). *Palomena prasina* [Hemiptera: Pentatomidae]. Rec'd 6 Feb 2012. Turkey: Ordu Province.

Simplicillium lanosoniveum (F. H. Beyma) Zare & W. Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 6430 [EMBRAPA/CPAC] DEN Rangel (CPAC H1). *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 14 Feb 2000. French Guiana.
- 6431 [EMBRAPA/CPAC] DEN Rangel (CPAC H3). *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 14 Feb 2000. French Guiana.
- 6432 [EMBRAPA/CPAC] DEN Rangel (CPAC H6). *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 14 Feb 2000. French Guiana.
- 6636 SB Alves (ESALQ 1226). *Leptopharsa heveae* [Hemiptera: Tingidae]. 28 Sep 1998. Brazil: Itiquira, Mato Grosso.
- 6637 SB Alves (ESALQ 1227). *Leptopharsa heveae* [Hemiptera: Tingidae]. 28 Sep 1998. Brazil: Itiquira, Mato Grosso.

- 6642 SB Alves (ESALQ 1237). *Leptopharsa heveae* [Hemiptera: Tingidae]. 11 Nov 1998. Brazil: Brasília, Distrito Federal.
- 7623 [SRCAMB VL-879] V Likhovidov. *Parthenolecanium corni* [Hemiptera: Coccidae]. Aug 2002. Russian Federation: Caucasus region, Mostovsky District, Krasnodarsky Krai. Field Collection Number F-232.

Sporodiniella umbellata Boedijn ex HC Evans & Samson
[Mucormycotina: Mucorales]
Mucoraceae

- 5222 [CBS 148.75; IMI 225999] ATCC (36482). [Hemiptera: Jassidae] on cacao leaves. Acc'd 2 Aug 1996. Location not specified.

***Sporothrix* sp.**
[Sordariomycetes: Ophiostomatales]
Ophiostomataceae

- 1908 MC Rombach (5). *Nilaparvata lugens* [Hemiptera: Delphacidae] on rice. Apr 1985. Solomon Islands: nr. Metapona, Guadalcanal.
- 7038 RG Hollingsworth (KNF2002-8). [Hemiptera: Cicadellidae]. 26 Jan 2002. USA: Bird Park, Volcano, Hawaii.
- 7042 RG Hollingsworth (KNF2002-13). [Hemiptera: Delphacidae]. 26 Jan 2002. USA: Bird Park, Volcano, Hawaii.
- 10230 SR Sánchez Peña. Adult, *Diaphorina citri* [Hemiptera: Psyllidae] on *Murraya paniculata* (L.) Jack, orange jessamine. 10 Nov 2009. Mexico: Gutiérrez Zamora, Veracruz.

Sporothrix ghanensis de Hoog & HC Evans
[Sordariomycetes: Ophiostomatales]
Ophiostomataceae

- 9500 [SRCAMB VL-2061] V Likhovidov. [Hemiptera: Coccoidea]. 1998. Russian Federation: Sochi District, Krasnodarsky Krai. Field Collection Number F-883.

***Stachybotrys* sp.**
[Hyphomycetes]

- 2863 MG Feng (SA8801). *Sitobion avenae* [Hemiptera: Aphididae] on spring wheat. 19 Jun 1988. USA: Wilder, Idaho.

Sterile mycelium

- 1435 MC Rombach (II.1). *Scotinophara coarctata* [Hemiptera: Pentatomidae]. 14 Apr 1984. Philippines: Maasin, Palawan.
- 3702 LA Lacey (060). Adult, [Hemiptera: Cicadellidae]. 7 Apr 1992. India: Padappai.
- 3703 LA Lacey (008A). Adult, [Hemiptera: Aphididae]. 7 Mar 1992. Pakistan: Lahore.
- 3705 LA Lacey (015A). Adult, [Hemiptera: Aphididae]. 7 Mar 1992. Pakistan: Lahore.

- 3710 LA Lacey (037A) ← A Kisk. Adult, [Hemiptera: Aleyrodidae]. 18 Dec 1991. Spain.
- 3711 LA Lacey (041A) or (041A). Adult, [Hemiptera: Aleyrodidae]. 17 Mar 1991. Nepal: Katmandu.
- 3712 LA Lacey (019A). Adult, [Hemiptera: Aphididae]. 7 Mar 1992. Pakistan: Lahore.
- 3868 LA Lacey (92157). *Bemisia tabaci* [Hemiptera: Aleyrodidae]. 11 Sep 1992. India: Podumbu.
- 4376 LA Lacey (94022). *Brevicoryne brassicae* [Hemiptera: Aphididae]. 21 Jan 1994. Brazil: Londrina, Paraná.
- 4712 D Peck (11). Adult, female, *Prosapia plagiata* [Hemiptera: Cercopidae] *Cynodon nlemfuensis*. 12 Aug 1994. Costa Rica: Dairy pasture at 1400M elevation, Monteverde, Puntarenas.
- 5819 BL Parker (AT 070). *Adelges tsugae* [Hemiptera: Adelgidae]. 10 May 1997. USA: Guilford, Connecticut.

***Tilletiopsis* sp.**

[Exobasidiomycetes]

These strains were probably accidental contaminants of brown planthoppers. This genus is usually found only among phylloplane fungi and is not otherwise known to be entomopathogenic.

- 527 DW Roberts (82880-2). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 28 Aug 1980. Thailand: Chainat Rice Exp. Sta., N of Bangkok, Khlong Luang.
- 572 DW Roberts (82880-2). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 28 Aug 1980. Thailand: Khlong Luang.
- 573 DW Roberts (82880-1). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 28 Aug 1980. Thailand: Khlong Luang.

***Tolypocladium* sp.**

[Sordariomycetes: Hypocreales]

Ophiocordycipitaceae

- 6634 SB Alves (ESALQ 1224). *Leptopharsa heveae* [Hemiptera: Tingidae]. 31 Aug 1998. Brazil: São José do Rio Claro, Mato Grosso.

***Tolypocladium cylindrosporum* W Gams**

[Sordariomycetes: Hypocreales]

Ophiocordycipitaceae

- 10146 [ERL 1806] S Gouli (Thr.-10-9) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.

***Torrubiella homopterorum* Humber & Rombach (sp. nov., unpubl.)**

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 2045 MC Rombach (161085-11) ← SB Ahn (E1-22). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 16 Oct 1985. Republic of Korea: Gun-Wandi.

***Torrubiella piperis* Bischoff & White**

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 7232 [CBS 116719] JF Bischoff. [Hemiptera: Coccoidea] on *Piper carrilloanum* C. DC. Aug 2003. Panama: Lutz Creek, Barro Colorado Island. CULTURE EX TYPE; teleomorph of *Lecanicillium muscarium* (Petch) Zare & W. Gams.

***Trichoderma* sp.**

[Sordariomycetes: Hypocreales]

Hypocreaceae

- 807 RA Daoust (Ek8-4). *Empoasca kraemeri* [Hemiptera: Cicadellidae]. Acc'd 9 Oct 1986. Brazil.
- 3084 J Peña ← H Glenn. *Unaspis citri* [Hemiptera: Diaspididae] on *Citrus aurantifolia*. May 1990. USA: Homestead, Florida.
- 9938 [ERL 1785] S Gouli and V Gouli (Thr.-09-17). [Thysanoptera: Thripidae]. 2010. USA: Vermont.

***Trichoderma lignorum* (Tode) Harz**

[Sordariomycetes: Hypocreales]

Hypocreaceae

- 5176 S Gouli (GP-14). *Adelges tsugae* [Hemiptera: Adelgidae] on *Tsuga canadensis*. 14 Feb 1996. USA: Mt. Tom, Holyoke, Massachusetts.

***Trichoderma viride*(?) Persoon**

[Sordariomycetes: Hypocreales]

Hypocreaceae

- 6344 [CIAT 016] Adult, *Aeneolamia varia* [Hemiptera: Cercopidae]. 4 May 1999. Colombia: CIAT Farm, Palmira, Valle.

***Trichothecium* sp.**

[Sordariomycetes: Hypocreales]

Hypocreaceae

- 653 DW Roberts (100881-2). *Nephotettix bipunctata cincticeps* [Hemiptera: Cicadellidae]. 8 Oct 1981. PR China: Chansha, Hunan.
- 1217 TJ Poprawski (050A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 1 Jun 1983. Italy: Acquapendente, Lazio.
- 1223 TJ Poprawski (060A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 7 Jun 1983. Italy: Acquapendente, Lazio.

***Trichothecium roseum* Link:Fries**

[Sordariomycetes: Hypocreales]

Hypocreaceae

- 1212 TJ Poprawski (042). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.
- 1226 TJ Poprawski (001A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 18 May 1983. Italy: Vetralla, Lazio.

- 1308 TJ Poprawski (044). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 23 May 1983. Italy: Acquapendente, Lazio.
- 1639 TJ Poprawski (0136). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 13 Jul 1984. Austria: Burgenland.
- 1642 TJ Poprawski (0139). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 13 Jul 1984. Austria: Burgenland.
- 3708 LA Lacey (035A) ← A Kirk. Adult, [Hemiptera: Aleyrodidae]. 11 Dec 1991. Spain.

***Tripospermum* sp.**

[Dothideomycetes: Capnodiaceae]

Capnodiaceae

- 9363 [ERL 1655] S Gouli and V Gouli (HWA-G-5). *Adelges tsugae* [Hemiptera: Adelgidae]. 2009. USA: New Hampshire.

***Verticillium* sp.**

[Sordariomycetes: Hypocreales]

These species are being reclassified to the appropriate genus and species as they are being re-examined after the phylogenetically based reclassification of *Verticillium* Section *Prostrata*.

- 3547 M Brownbridge (R-6). Larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 20 Nov 1991. USA: Laggis' sugar maple stand, Caledonia County, Vermont.
- 3550 M Brownbridge (R-12). White mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 26 Nov 1991. USA: Goodhouse's sugar maple stand, Windsor County, Vermont.
- 3551 M Brownbridge (R-13). Pink mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 26 Nov 1991. USA: Rowe's sugar maple stand, Caledonia County, Vermont.
- 3552 M Brownbridge (R-14). Yellow mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 26 Nov 1991. USA: Preseau's sugar maple stand, Addison County, Vermont.
- 3556 M Brownbridge (R-22). Pink mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Ralph's sugar maple stand, Washington County, Vermont.
- 3561 M Brownbridge (R-29). Mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Motyka's sugar maple stand, Orange County, Vermont.
- 4074 C Rosenthal (MP1). *Myzus persicae* [Hemiptera: Aphididae]. Jul 1989. Denmark: Lyngby, Zealand.
- 4194 LA Lacey (94030). [Hemiptera: Aphididae] Tamarillo Tree. 25 Mar 1994. Malaysia: Cameron Highlands.
- 4195 LA Lacey (94031). [Hemiptera: Aphididae] Tamarillo Tree. 25 Mar 1994. Malaysia: Caurcuan Highlands, Cameron Highlands.

- 4203 LA Lacey (94032). [Hemiptera: Aphididae] on orchid. 25 Mar 1994. Malaysia: Brichang.
- 4398 LA Lacey (94095). [Hemiptera: Aphididae] eggplant. 24 Mar 1994. Malaysia: Kuala Terla.
- 4399 LA Lacey (94096). [Hemiptera: Aphididae] eggplant. 24 Mar 1994. Malaysia: Kuala Terla.
- 4402 LA Lacey (94062). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae] eggplant. 24 Mar 1994. Malaysia: Kuala Terla.
- 6480 BL Parker (SPT-KR-389/1). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 12 Feb 2000. Kyrgyz Republic: GPS Coordinates N 43°39.257' E 073°54.353'. **RESTRICTED ACCESS:.**

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- 6485 BL Parker (SPT-KZ-413). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 3 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.534' E 076°36.541'. **RESTRICTED ACCESS:.**

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- 6498 BL Parker (SPT-KZ-445). Adult, [Hemiptera: Rhopalidae] overwintering in soil. 5 Feb 2000. Kazakhstan: GPS Coordinates N 44°14.205' E 077°42.544'. **RESTRICTED ACCESS:.**

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- 6500 BL Parker (SPT-KZ-457). Adult, *Aelia* sp. [Hemiptera: Pentatomidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°09.121' E 076°35.771'. **RESTRICTED ACCESS:.**

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- 6580 G Sewify (2). *Icerya purchasi* [Hemiptera: Margarodidae]. May 2000. Egypt.

***Verticillium lecanii* (Zimmerman) Viégas**

[Sordariomycetes: Hypocreales]

Cordycipitaceae. A species complex now reclassified in *Lecanicillium* and distributed among three species. Isolates remaining here are being transferred to the appropriate species as they are re-examined.

- 2859 MG Feng (SA8701). *Sitobion avenae* [Hemiptera: Aphididae] on winter wheat. 12 Jun 1987. USA: Hwy 95 & Klahr Rd., Canyon County, Idaho.
- 2916 CBS (537.81) ← HC Evans. [Hemiptera: Coccidae]. 1981. Ecuador: Galapagos Islands.
- 3741 D Lonsdale (AH2). *Cryptococcus fagisuga* [Hemiptera: Eriococcidae] beech tree (*Fagus sylvatica*). Rec'd 6 Jul 1992. United Kingdom: England.
- 3742 D Lonsdale (AH3). *Cryptococcus fagisuga* [Hemiptera: Eriococcidae] beech tree (*Fagus sylvatica*). Rec'd 6 Jul 1992. United Kingdom: England.
- 3743 D Lonsdale (AH4). *Cryptococcus fagisuga* [Hemiptera: Eriococcidae] beech tree (*Fagus sylvatica*). Rec'd 6 Jul 1992. United Kingdom: England.
- 3862 [ARSEF 2859] N Underwood (ARSEF2859). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 28 Jan 1993. Laboratory manipulation.

- 3881 [ARSEF 3836] N Underwood (U3836). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 16 Feb 1993. Laboratory manipulation: Reisolated from bioassay.
- 3902 [ARSEF 3838] N Underwood (U3838). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 5 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3903 [ARSEF 3000] N Underwood (U3000). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 5 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3904 [ARSEF 3840] N Underwood (U3840). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 5 Mar 1993. Laboratory manipulation: Reisolated from bioassay.
- 3909 [ARSEF 2858] N Underwood (U2858). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 2 Apr 1993. Laboratory manipulation: Reisolated from bioassay.
- 4025 T Steenberg (227) ← A Kirkeby-Thomse. *Phytokermes hemichryphus* [Hemiptera: Coccidae] Red spruce. Nov 1990. Denmark: Grib Skov, Zealand.
- 4061 T Steenberg (VT3). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae]. Jul 1989. Denmark: Lyngby, Zealand.
- 4064 T Steenberg (BT3). *Bemisia tabaci* [Hemiptera: Aleyrodidae] on tobacco. Jul 1989. Denmark: Greenhouse, Lyngby, Zealand.
- 4065 T Steenberg (BT4). *Bemisia tabaci* [Hemiptera: Aleyrodidae] on tobacco. Jul 1989. Denmark: Greenhouse, Lyngby, Zealand.
- 4067 T Steenberg (BT6). *Bemisia tabaci* [Hemiptera: Aleyrodidae] on tobacco. Jul 1989. Denmark: Greenhouse, Lyngby, Zealand.
- 4069 T Steenberg (BT11). *Bemisia tabaci* [Hemiptera: Aleyrodidae] on tobacco. Jul 1989. Denmark: Greenhouse, Lyngby, Zealand.
- 4070 T Steenberg (BT12). *Bemisia tabaci* [Hemiptera: Aleyrodidae] on tobacco. Jul 1989. Denmark: Greenhouse, Lyngby, Zealand.
- 4071 T Steenberg (BT13). *Bemisia tabaci* [Hemiptera: Aleyrodidae] on tobacco. Jul 1989. Denmark: Greenhouse, Lyngby, Zealand.
- 4072 T Steenberg (BT14). *Bemisia tabaci* [Hemiptera: Aleyrodidae] on tobacco. Jul 1989. Denmark: Greenhouse, Lyngby, Zealand.
- 4073 T Steenberg (VL9) ← C Rosenthal. [Hemiptera: Aphididae]. 1989. Denmark.
- 4075 T Steenberg (MP2). *Myzus persicae* [Hemiptera: Aphididae]. Jul 1989. Denmark: Lyngby, Zealand.
- 4076 T Steenberg (MP3). *Myzus persicae* [Hemiptera: Aphididae]. Jul 1989. Denmark: Lyngby, Zealand.
- 4077 T Steenberg (MP5). *Myzus persicae* [Hemiptera: Aphididae]. Jul 1989. Denmark: Lyngby, Zealand.
- 4079 T Steenberg (MP11). *Myzus persicae* [Hemiptera: Aphididae]. Jul 1989. Denmark: Lyngby, Zealand.
- 4416 LA Lacey (94058). [Hemiptera: Aphididae] Orchid. 25 Mar 1994. Malaysia: Brichaug.
- 4417 LA Lacey (94059). [Hemiptera: Aphididae] Orchid. 25 Mar 1994. Malaysia: Brichaug.
- 4418 LA Lacey (94060). [Hemiptera: Aphididae] Orchid. 25 Mar 1994. Malaysia: Brichaug.
- 4419 LA Lacey (94028). [Hemiptera: Aphididae] Tamarillos. 25 Mar 1994. Malaysia: Cameron Highlands.
- 4420 LA Lacey (94047). [Hemiptera: Aphididae] Tamarillos. 25 Mar 1994. Malaysia: Cameron Highlands.
- 4421 LA Lacey (94048). [Hemiptera: Aphididae] Tamarillos. 25 Mar 1994. Malaysia: Cameron Highlands.
- 4422 LA Lacey (94049). [Hemiptera: Aphididae] Tamarillos. 25 Mar 1994. Malaysia: Cameron Highlands.
- 4423 LA Lacey (94050). [Hemiptera: Aphididae] Tamarillos. 25 Mar 1994. Malaysia: Cameron Highlands.
- 4453 LA Lacey (94151). [Hemiptera: Aphididae]. 25 Mar 1994. Malaysia.
- 4454 LA Lacey (94052). [Hemiptera: Aphididae]. 25 Mar 1994. Malaysia: Cameron Highlands.
- 4455 LA Lacey (94054). [Hemiptera: Aphididae]. 25 Mar 1994. Malaysia: Cameron Highlands.
- 4456 LA Lacey (94055). [Hemiptera: Aphididae]. 25 Mar 1994. Malaysia: Cameron Highlands.
- 4457 LA Lacey (94094). [Hemiptera: Aphididae]. 25 Mar 1994. Malaysia: Cameron Highlands.
- 5130 [Horticulture Research International 336.92] D Chandler (HRI 336.92). *Myzus persicae* [Hemiptera: Aphididae]. 1992. United Kingdom: insect rearing unit, Wellesbourne, England.
- 5131 [Horticulture Research International 339.92] D Chandler (HRI 339.92). Cauliflower, *Brevicoryne brassicae* [Hemiptera: Aphididae]. 1992. United Kingdom: greenhouse, Wellesbourne, England.
- 5153 A Braun (Bogor). *Coccus viridis* [Hemiptera: Coccidae] Coffee. 1996. Indonesia: Kebun Raya Bogor (Bogor Botanical Garden), Bogor, Jawa Barat, Java.
- 5166 S Gouli (GP-49). [Hemiptera: Aphididae]. 31 May 1995. USA: R. Angellilo's sugar maple stand, North Field, Vermont.
- 5709 T Steenberg (TT4). *Thrips tabaci* [Thysanoptera: Thripidae]. Rec'd 22 Apr 1998. Denmark.
- 5771 BL Parker (AT 135). *Adelges tsugae* [Hemiptera: Adelgidae]. 19 Oct 1997. USA: Lovingston, Virginia.
- 5781 BL Parker (HWA 24). *Adelges tsugae* [Hemiptera: Adelgidae]. 7 Mar 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 5783 BL Parker (HWA 111/6). *Adelges tsugae* [Hemiptera: Adelgidae]. 2 Apr 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 5786 [ERL 324] S Gouli (HWA-115/2) and V Gouli. *Adelges tsugae* [Hemiptera: Adelgidae]. 2 Apr 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 5789 BL Parker (HWA 143/1). *Adelges tsugae* [Hemiptera: Adelgidae]. 2 Apr 1997. USA: Mt. Tom, Holyoke, Massachusetts.

- 5793 BL Parker (HWA 236). *Adelges tsugae* [Hemiptera: Adelgidae]. 10 Apr 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 5809 B Broadbent (BB002). [Hemiptera: Aphididae] on *Achillea millefolium*. 14 Jul 1996. Canada: Kingsville, Ontario.
- 5820 BL Parker (AT 071). *Adelges tsugae* [Hemiptera: Adelgidae]. 17 Oct 1997. USA: Mt. Tom, Holyoke, Massachusetts.
- 5821 BL Parker (AT 072). *Adelges tsugae* [Hemiptera: Adelgidae]. 3 Jul 1997. USA: Crabtree Falls, Virginia.
- 5824 BL Parker (AT 132). *Adelges tsugae* [Hemiptera: Adelgidae]. 19 Oct 1997. USA: Lovingston, Virginia.
- 5854 T Steenberg (SSL 449). *Dreyfusia normannianiae* [Hemiptera: Adelgidae] on *Abies nordmanniana*. Rec'd 26 Aug 1998. Denmark: Zealand.
- 6025 BL Parker ← V Gouli (SPT-R-215). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6045 BL Parker (AT-C-198). Aestivating 2nd instar, *Adelges tsugae* [Hemiptera: Adelgidae]. 30 Oct 1999. PR China: Site 4, Tree Number 4, Sichuan Province.
- 6046 BL Parker (AT-C-291). Aestivating 2nd instar, *Adelges tsugae* [Hemiptera: Adelgidae]. 30 Oct 1998. PR China: Site 4, Tree Number 15, Sichuan Province.
- 6047 BL Parker (AT-C-292). Aestivating 2nd instar, *Adelges tsugae* [Hemiptera: Adelgidae]. 30 Oct 1998. PR China: Site 3, Tree Number 10, Sichuan Province.
- 6050 BL Parker (AT-C-295). Aestivating 2nd instar, *Adelges tsugae* [Hemiptera: Adelgidae]. 29 Oct 1998. PR China: Site 1, Sichuan Province.
- 6068 BL Parker (SPT-U-271). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6085 BL Parker (SPT-2-309/1). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6144 TJ Poprawski. *Toxoptera citricida* [Hemiptera: Aphididae]. 27 Jan 1999. Dominican Republic: Sabana Grande.
- 6145 TJ Poprawski. *Toxoptera citricida* [Hemiptera: Aphididae]. 27 Jan 1999. Dominican Republic: Juan Jimenez.
- 6287 S Farrokhi (PPDRI 1). *Pulvinaria aurantii* [Hemiptera: Coccidae]. Sep 1994. Iran: Sari, Mazandaran.
- 6290 S Farrokhi (PPDRI 5). [Hemiptera] Mixed population of Coccidae and Diaspididae species. Oct 1997. Iran: Tonekabon, Mazandaran.
- 6291 S Farrokhi (PPDRI 6). *Pulvinaria aurantii* [Hemiptera: Coccidae]. Sep 1998. Iran: Sari, Mazandaran.
- 6479 BL Parker (SPT-KZ-377). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 3 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.534' E 076°36.541'. **RESTRICTED ACCESS:.**

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- 6540 D Chandler (HRI 2.72). *Brachycaudus helichrysi* [Hemiptera: Aphididae]. Rec'd 13 Jul 2000. United Kingdom.
- 6541 D Chandler (HRI 3.72). *Aphis gossypii* [Hemiptera: Aphididae]. Rec'd 13 Jul 2000. United Kingdom.
- 6542 D Chandler (HRI 5.72). *Macrosiphoniella sanborni* [Hemiptera: Aphididae]. Rec'd 13 Jul 2000. United Kingdom.
- 6543 D Chandler (HRI 6.72). *Myzus persicae* [Hemiptera: Aphididae]. Rec'd 13 Jul 2000. United Kingdom.
- 6544 D Chandler (HRI 18.78). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae]. Rec'd 13 Jul 2000. United Kingdom.
- 6547 D Chandler (HRI 40.81). *Trialeurodes vaporariorum* [Hemiptera: Aleyrodidae]. Rec'd 13 Jul 2000. United Kingdom.
- 6548 D Chandler (HRI 53.81). [Thysanoptera: Thripidae]. Rec'd 13 Jul 2000. United Kingdom.
- 6606 JL Hatting. *Diuraphis noxia* [Hemiptera: Aphididae]. 19 Jun 2000. Hungary: greenhouse, Budapest, Budapest.
- 6651 [EMBRAPA/CPAC] DEN Rangel (CPAC H2). *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 25 Oct 2000. French Guiana.

Verticillium pseudohemipterigenum HC Evans & Y Jun
[Sordariomycetes: Hypocreales]

- 5687 [IMI 374402] HC Evans (HE96-1013). *Bambusaspis* sp. [Hemiptera: Coccoidea: Asterolecaniidae] on bamboo leaf. Fall 1996. Trinidad and Tobago: Parrylands, Siparia, Trinidad. Culture Ex Paratype.

Zoophthora sp.

[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae.

- 7454 [CEP 127] C López Lastra. [Hemiptera: Aphididae] on *Brassica oleracea* L., cabbage crop. 20 Apr 2004. Argentina: Parque Pereyra, Berazategui, Buenos Aires. **RESTRICTED ACCESS: consult Curator.**

Zoophthora anglica (Petch) Ben-Ze'ev & RG Kenneth
[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

- 916 S Keller (411). *Notostira elongata* [Hemiptera: Miridae]. 25 Aug 1982. Switzerland.
- 926 S Keller (412). *Notostira elongata* [Hemiptera: Miridae]. 25 Aug 1982. Switzerland.

Zoophthora aphidis (Hoffman in Fresenius) Humber & Ben-Ze'ev
[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

- 425 [ARSEF 467 (lost), 643 (lost); CSIRO EM740] S Keller (84). *Anoecia corni* [Hemiptera: Aphididae]. Rec'd 6 Feb 1980. Switzerland.

Zoophthora occidentalis (Thaxter) Humber & Ben-Ze'ev
[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

- 207 [CSIRO EM680] RT Mietkiewski. *Macrosiphum euphorbiae* [Hemiptera: Aphididae] on potato. 20 Sep 1977. USA: Rogers Farm, Stillwater, Maine.
- 2841 K Hural (FR-17). *Acyrtosiphon pisum* [Hemiptera: Aphididae] on alfalfa. 5 Sep 1989. USA: Ithaca, New York.
- 3027 H Firstencel. *Acyrtosiphon pisum* [Hemiptera: Aphididae]. 26 Jun 1990. USA: Freese Rd., Ithaca, New York.
- 3028 H Firstencel. *Acyrtosiphon pisum* [Hemiptera: Aphididae]. 11 Jul 1990. USA: Stevenson Rd., Ithaca, New York.
- 3029 H Firstencel. *Acyrtosiphon pisum* [Hemiptera: Aphididae]. 25 Jun 1990. USA: P-field, Aurora, New York.
- 3071 K Hural. *Acyrtosiphon pisum* [Hemiptera: Aphididae] on alfalfa. 18 Sep 1990. USA: Hoffman field # 6G, Catherine, New York.
- 3073 K Hural. *Acyrtosiphon pisum* [Hemiptera: Aphididae] on alfalfa. 18 Sep 1990. USA: Hoffman field # 7E, Catherine, New York.

Zoophthora phalloides (Batko) Humber, Ben-Ze'ev & RG Kenneth in Humber & Ben-Ze'ev
[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

- 352 [ARSEF 1869 (lost)] CSIRO (EM548) or (EM681) ← N Wilding (27). *Myzus rannaculinum* [Hemiptera: Aphididae]. 12 May 1978. France: Rennes, Ille-et-Vilaine.
- 2281 IL Sivcev (52/86). *Brevicoryne brassicae* [Hemiptera: Aphididae]. 23 Jun 1986. Yugoslavia: PKB commune, Zemun, Belgrade.

Zoophthora radicans (Brefeld) Batko
[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae. Major synonyms: *Entomophthora sphaerosperma* Fresenius, *Entomophthora radicans* Brefeld, *Erynia radicans* (Brefeld) Humber, Ben-Ze'ev & Kenneth in Humber & Ben-Ze'ev.

- 75 [FPMI 700] RG Kenneth (3060) or (E.s. 28). *Brachycaudus amygdalinus* [Hemiptera: Aphididae] on *Polygonum equisetiforme* [Polygonaceae]. 23 Jan 1976. Israel: Rehovot, Central District.

- 103 [CSIRO EM518, EM578, EM724; FPMI 701] RG Kenneth (3100) or (E.s. 31) ← A Uziel. *Therioaphis maculata* [Hemiptera: Aphididae]. 11 Jul 1976. Israel: Sedé Eliyahu.
- 104 [CSIRO EM553, EM725] RG Kenneth (3101) or (E.s. 32) ← A Uziel. *Therioaphis maculata* [Hemiptera: Aphididae]. 11 Jul 1976. Israel: Sedé Eliyahu.
- 105 [CSIRO EM726] RG Kenneth (3102) or (E.s. 33) ← A Uziel. *Therioaphis maculata* [Hemiptera: Aphididae]. 25 Jul 1976. Israel: Bet Dagan, Hamerkaz.
- 106 [CSIRO EM727] RG Kenneth (3103) or (E.s. 34) ← A Uziel. *Therioaphis maculata* [Hemiptera: Aphididae]. 25 Jul 1976. Israel: Bet Dagan, Hamerkaz.
- 107 [CSIRO EM554] RG Kenneth (3104) or (E.s. 35) ← A Uziel. *Therioaphis maculata* [Hemiptera: Aphididae]. 25 Jul 1976. Israel: Bet Dagan, Hamerkaz.
- 108 [CSIRO EM728] RG Kenneth (3105) or (E.s. 36) ← A Uziel. *Therioaphis maculata* [Hemiptera: Aphididae]. 25 Jul 1976. Israel: Bet Dagan, Hamerkaz.
- 109 [CSIRO EM729] RG Kenneth (3106) or (E.s. 37) ← A Uziel. *Therioaphis maculata* [Hemiptera: Aphididae]. 25 Jul 1976. Israel: Bet Dagan, Hamerkaz.
- 110 [CSIRO EM555] RG Kenneth (3107) or (E.s. 38) ← A Uziel. *Therioaphis maculata* [Hemiptera: Aphididae]. 25 Jul 1976. Israel: Bet Dagan, Hamerkaz.
- 111 [CSIRO EM556, EM730] RG Kenneth (3109) or (E.s. 40) ← A Uziel. *Therioaphis maculata* [Hemiptera: Aphididae]. 25 Jul 1976. Israel: Bet Dagan, Hamerkaz.
- 112 [CSIRO EM561] RG Kenneth (3110) or (E.s. 41) ← A Uziel. *Therioaphis maculata* [Hemiptera: Aphididae]. 25 Jul 1976. Israel: Bet Dagan, Hamerkaz.
- 114 [CSIRO EM517] RG Kenneth (3096) or (E.s. 29) ← A Uziel. *Therioaphis maculata* [Hemiptera: Aphididae]. 11 Jul 1976. Israel: Sedé Eliyahu.
- 126 [FPMI 702; IPLB 27] JP Latgé and G Remaudière (625). *Psyllida etrioza* [Hemiptera: Psyllidae] on *Prunus pennsylvanicus* [Rosaceae]. 25 Aug 1976. Canada: Chute aux Galets, Québec.
- 139 [CSIRO EM731] RG Kenneth (3097) or (E.s. 30) ← A Uziel. *Therioaphis maculata* [Hemiptera: Aphididae]. Acc'd 20 Nov 1978. Israel: Sedé Eliyahu.
- 237 [FPMI 704] P Dodge. *Therioaphis maculata* [Hemiptera: Aphididae]. Aug 1978. USA: Ithaca, New York.
- 238 [CSIRO EM560] P Dodge. *Therioaphis maculata* [Hemiptera: Aphididae]. Aug 1978. USA: Ithaca, New York.
- 239 P Dodge. *Therioaphis maculata* [Hemiptera: Aphididae]. Aug 1978. USA: Ithaca, New York.
- 359 [ARSEF 370, 823; CSIRO EM539; IPLB 844] RJ Milner ← ARSEF (103). *Therioaphis maculata* [Hemiptera: Aphididae]. Acc'd 8 Jun 1979. Australia: Armidale, New South Wales. Reisolated from field release at Armidale; forms protoplasts.

- 370 [ARSEF 359, 823; CSIRO EM539; IPLB 844] RJ Milner ← ARSEF (103). *Therioaphis maculata* [Hemiptera: Aphididae]. Acc'd 27 Jul 1979. Australia: Armidale, New South Wales. Reisolated from field release at Armidale.
- 379 [IPLB 1118] CSIRO (EM540) ← JP Latgé. *Therioaphis maculata* [Hemiptera: Aphididae]. 9 Nov 1978. Mexico.
- 389 S Keller (217). *Dicyphus pallidus* [Hemiptera: Miridae]. Rec'd 3 Oct 1979. Switzerland: Zürich.
- 685 DW Roberts (102181-12). *Nilaparvata lugens* [Hemiptera: Delphacidae]. 21 Oct 1981. PR China: Wuhan, Hupei.
- 789 [CNPAF 82-6-25-01; CP 64; CSIRO EM732] RA Daoust (EK8-1) and M Yokoyama. Adult, *Empoasca kraemeri* [Hemiptera: Cicadellidae] on beans. 25 Jun 1982. Brazil: CNPAF, Goiânia, Goiás.
- 790 [CNPAF 82-6-25-02; CP 65; CSIRO EM733] RA Daoust (EK8-2) and M Yokoyama. Adult, *Empoasca kraemeri* [Hemiptera: Cicadellidae] on beans. 25 Jun 1982. Brazil: CNPAF, Goiânia, Goiás.
- 800 EL Cuebas-Incle. [Hemiptera: Cercopidae]. Jul 1979. USA: Six Mile Creek, Ithaca, New York.
- 822 [CSIRO EM667; IPLB 421] CSIRO (EM667) ← G Remaudière. *Capitophorus* sp. [Hemiptera: Aphididae]. 24 Oct 1973. France: Quineville, Manche.
- 823 [ARSEF 359, 370; CSIRO EM539; IPLB 844] G Lutton and RJ Milner ← ARSEF (103). *Therioaphis maculata* [Hemiptera: Aphididae]. 9 Nov 1978. Australia: Armidale, New South Wales. Reisolated from field release at Armidale.
- 914 S Keller (445). *Drepanosiphum aceris* [Hemiptera: Aphididae]. Nov 1982. Switzerland.
- 1018 JV Maddox and MR McGuire (A). *Empoasca fabae* [Hemiptera: Cicadellidae] on potato. 12 Sep 1983. USA: Arlington Research Station, nr. Madison, Wisconsin.
- 1019 JV Maddox and MR McGuire (B). *Empoasca fabae* [Hemiptera: Cicadellidae] on potato. 12 Sep 1983. USA: Arlington Research Station, nr. Madison, Wisconsin.
- 1020 JV Maddox and MR McGuire (D). *Empoasca fabae* [Hemiptera: Cicadellidae] on potato. 12 Sep 1983. USA: Arlington Research Station, nr. Madison, Wisconsin.
- 1021 JV Maddox and MR McGuire (F). *Empoasca fabae* [Hemiptera: Cicadellidae] on potato. 12 Sep 1983. USA: Arlington Research Station, nr. Madison, Wisconsin.
- 1050 J Aoki (Ent. 26) ← M Shimazu. *Delphacodes striatella* [Hemiptera: Delphacidae]. Dec 1976. Japan: Chikugo, Fukuoka Prefecture.
- 1125 [CSIRO EM682] M Shimazu (F-17). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Acc'd 29 Mar 1984. Japan: Fukuoka Prefecture.
- 1130 [CSIRO EM742] S Keller (444). *Drepanosiphum aceris* [Hemiptera: Aphididae]. Nov 1982. Switzerland.
- 1136 M Shimazu (F-43). *Nilaparvata lugens* [Hemiptera: Delphacidae]. Acc'd 3 Apr 1984. Japan: Fukuoka Prefecture.
- 1227 [CNPAF 84-04-03-6B; CP 127] DW Roberts. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1228 [CNPAF 84-04-02-5D; CP 128] DW Roberts. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 2 Apr 1984. Brazil: Palmitos, Santa Catarina.
- 1229 [CNPAF 84-04-02-6F; CP 129] DW Roberts. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 2 Apr 1984. Brazil: Palmitos, Santa Catarina.
- 1231 [CNPAF 84-04-02-5B; CP 131] DW Roberts. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 2 Apr 1984. Brazil: Palmitos, Santa Catarina.
- 1232 [CNPAF 84-04-02-5C; CP 132] DW Roberts. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 2 Apr 1984. Brazil: Palmitos, Santa Catarina.
- 1233 [CNPAF 84-04-02-6G; CP 133] DW Roberts. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 2 Apr 1984. Brazil: Palmitos, Santa Catarina.
- 1234 [CNPAF 84-04-02-6B; CP 134] DW Roberts. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 2 Apr 1984. Brazil: Palmitos, Santa Catarina.
- 1236 [CNPAF 84-04-02-5J; CP 136] DW Roberts. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 2 Apr 1984. Brazil: Palmitos, Santa Catarina.
- 1237 [CNPAF 84-04-02-5A; CP 137] DW Roberts. *Empoasca kraemeri* [Hemiptera: Cicadellidae]. 2 Apr 1984. Brazil: Palmitos, Santa Catarina.
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- 3163 [ARSEF ?2708] TJ Poprawski (8817B). *Diuraphis noxia* [Hemiptera: Aphididae]. Rec'd 11 Dec 1990. Laboratory manipulation. Reisolate of ARSEF 3162.
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- 3283 [ARSEF 3284] S Roberts (Champ90LH2To(B)). *Empoasca fabae* [Hemiptera: Cicadellidae] on alfalfa. 1990. USA: Champaign County, Illinois.
- 3284 [ARSEF 3283] S Roberts (Champ90LH2To(E)). *Empoasca fabae* [Hemiptera: Cicadellidae] on alfalfa. 1990. USA: Champaign County, Illinois.
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- 3376 M Wheeler ← MH Griggs. *Empoasca fabae* [Hemiptera: Cicadellidae]. 26 Jul 1991. USA: Game Farm Rd., Ithaca, New York.
- 3377 M Wheeler ← MH Griggs. *Empoasca fabae* [Hemiptera: Cicadellidae]. 29 Jul 1991. USA: Game Farm Rd., Ithaca, New York.
- 3390 M Wheeler ← MH Griggs. *Empoasca fabae* [Hemiptera: Cicadellidae]. 5 Aug 1991. USA: Game Farm Rd., Ithaca, New York.
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- 3697 MH Griggs. *Empoasca fabae* [Hemiptera: Cicadellidae]. Rec'd Spring 1992. Laboratory manipulation.
- 3737 I Ben-Ze'ev and A Uziel. *Therioaphis trifolii* f. *maculata* [Hemiptera: Aphididae]. Aug 1985. Israel: Bet-Seham Valley.
- 4520 MH Griggs (PLH3284ows). *Empoasca fabae* [Hemiptera: Cicadellidae]. 2 Jun 1994. USA: USPSNL, Ithaca, New York. Cadavers infected with ARSEF 3284 overwintered 1993-1994 and reisolated.
- 6605 JL Hatting (Sample G). *Molopopterus theae* [Hemiptera: Cicadellidae]. 4 Aug 1999. South Africa: Site grid reference S 32° 00' 30.4" E 18° 55' 15.6" , Clanwilliam, Cape Province.
- 7208 [CEP 052] C López Lastra. *Aphis fabae* [Hemiptera: Aphididae] on *Solanum melongena* L., eggplant. 26 Mar 2003. Argentina: Colonia Urquiza, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 7455 [CEP 130] C López Lastra. [Hemiptera: Aphididae] on *Brassica oleracea* L., cabbage crop. 30 Mar 2004. Argentina: Arana, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 7788 [CEP 172] C López Lastra ← AC Scorsetti. [Hemiptera: Aphididae] on *Cynara cardunculus* L., artichoke crop. 12 Apr 2005. Argentina: General Mansilla, Partido Magdalena, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 7789 [CEP 173] C López Lastra ← AC Scorsetti. [Hemiptera: Aphididae] on *Cynara cardunculus* L., artichoke crop. 8 Sep 2004. Argentina: Colonia Urquiza, La Plata, Buenos Aires. **RESTRICTED ACCESS:** consult Curator.
- 11859 C López Lastra and R Manfrino. *Acyrtosiphon pisum* [Hemiptera: Aphididae] on *Medicago sativa* L., lucerne. 10 Jun 2012. Argentina: Monte Vera, Santa Fe.
- 11860 C López Lastra and R Manfrino. *Nasonovia ribisnigri* [Hemiptera: Aphididae] on *Lactuca sativa* L., lettuce. 31 Jul 2012. Argentina: Pereyra, Buenos Aires.
- 11861 C López Lastra and R Manfrino. *Brevicoryne brassicae* [Hemiptera: Aphididae] on *Brassica oleracea* L., broccoli. 27 May 2012. Argentina: Monte Vera, Santa Fe.

Unidentified / Hyphomycetes

- [Hemiptera]
Unknown species 7392 7806
[Hemiptera: Adelgidae]
Adelges tsugae 9364 9366 12086 12087 12088 12090
[Hemiptera: Aleyrodidae]
Unknown species 9539
[Hemiptera: Aphididae]
Unknown species 6503
Diuraphis noxia 4689 4690
[Hemiptera: Cicadellidae]
Recilia dorsalis 2177
[Hemiptera: Coccidae]
Parthenolecanium 12085
Parthenolecanium corni 9538
[Hemiptera: Coccoidea]
Unknown species 7386
[Hemiptera: Diaspididae]
Fiorinia externa 7067
[Hemiptera: Miridae]
Lygus lineolaris 6504
[Hemiptera: Orthezidae]
Orthezia insignis 7383
[Hemiptera: Pentatomidae]
Acanthosoma labiduroides 5698
Halyomorpha halys 10386 10387 10392
[Hemiptera: spf. Coccoidea]
Unknown species 7076 7081 7086
[Hemiptera: Tingidae]
Leptopharsa heveae 8640
[Thysanoptera: Thripidae]
Taeniothrips inconsequens 10191
10282 10283 10284 10285 10286
10292 10293 10307
Thrips tabaci 3142

Unidentified / Zygomycetes

- [Hemiptera: Aphididae]
Unknown species 6157 6158 6159 6507
6508 6509 6510 6511
Acyrtosiphon pisum 6119 6160
Aphis fabae 2022
Diuraphis noxia 4970 4971

Unidentified sp.

- [Hemiptera]
Unknown species 1423
[Hemiptera: Adelgidae]
Adelges tsugae 9921
[Hemiptera: Aleyrodidae]
Unknown species 4003 7070
Bemisia 3798 3799 3801 3802 3805 3806 3807
Bemisia tabaci 3773 3779 3842 3844 3845 3847 3849 3850 3869 3876
Dialeurodes citri 3304
[Hemiptera: Aphididae]
Unknown species 1693 1694 3122 3125 3894 4204 4214 4215
Metopolophium dirhodum 3368
Myzus nicotinae 3239
Rhopalosiphum padi 3374
[Hemiptera: Cercopidae]
Aeneolamia varia 6370
Prosapia simulans 3536
Zulia carbonaria 6463 6466

- [Hemiptera: Cicadellidae]
Empoasca fabae 3128
[Hemiptera: Membracidae]
Unknown species 4000
[Thysanoptera: Phlaeothripidae]
Haplothrips tritici 3990 3991 3992 4201 4202
[Thysanoptera: Thripidae]
Frankliniella occidentalis 3570 3993 3994 3997
Taeniothrips inconsequens 3256 3319 3560

Acremonium sp.

- [Hemiptera: Adelgidae]
Adelges tsugae 5773
[Hemiptera: Aleyrodidae]
Bemisia tabaci 4058 4059
[Hemiptera: Coccidae]
Pulvinaria iceryi 11667
[Thysanoptera: Thripidae]
Thrips tabaci 4063

Acremonium bactrocephalum

- [Thysanoptera: Thripidae]
Taeniothrips inconsequens 10166 10167 10168 10169

Acremonium psammosporum

- [Thysanoptera: Thripidae]
Thrips tabaci 4062

Acremonium(?) sp.

- [Hemiptera: Adelgidae]
Adelges tsugae 9368
[Hemiptera: Coccidae]
Unknown species 7036
[Thysanoptera: Thripidae]
Frankliniella occidentalis 7031

Aphanocladium sp.

- [Hemiptera: Delphacidae]
Delphacodes kuscheli 8457 8458

Aphanocladium album

- [Hemiptera: Aleyrodidae]
Bemisia tabaci 3680
[Hemiptera: Scutelleridae]
Eurygaster 5756

Aschersonia sp.

- [Hemiptera]
Unknown species 3015
[Hemiptera: Aleyrodidae]
Unknown species 3014 4207 4208 4210 4433 4435 4436 4437 4438 4439 4440 4441 4442 4443 4444 4445 4448 4449 5215 5216
Dialeurodes citri 2351 2357 2358 2397 2398 4424 4426 4430 4431 4432
[Hemiptera: Coccidae]
Unknown species 10276
[Hemiptera: spf. Coccoidea]
Unknown species 7085

Aschersonia aleyrodidis

- [Hemiptera: Aleyrodidae]
Unknown species 430 432 4209
Aglaia odoratissima 2154
Dialeurodes ?citri 341 342
Dialeurodes citri 992 9535
Trialeurodes vaporariorum 2268

Aschersonia andropogonis

- [Hemiptera]
Unknown species 7391

Aschersonia goldiana

- [Hemiptera: Aleyrodidae]
Dialeurodes ?citri 343

Aschersonia insperata

- [Hemiptera: Aleyrodidae]
Dialeurodes citri 2356 2396

Aschersonia placentia

- [Hemiptera: Aleyrodidae]
Dialeurodes citri 7603
[Hemiptera: Coccoidea]
Unknown species 7604

Aschersonia rhombispora

- [Hemiptera]
Unknown species 7390

Aschersonia turbinata

- [Hemiptera]
Unknown species 1030
[Hemiptera: Diaspididae]
Aonidiella aurantii 11868 11869

Ascopolyporus philodendrus

- [Hemiptera: Coccoidea]
Unknown species 7354

Ascopolyporus villosus

- [Hemiptera: Coccoidea]
Unknown species 7355

Aspergillus sp.

- [Hemiptera: Aleyrodidae]
Bemisia tabaci 3698
[Hemiptera: Cercopidae]
Aeneolamia varia 6369
[Hemiptera: Delphacidae]
Sogatella furcifera 8519
[Hemiptera: Pentatomidae]
Dolycorus 6405 6406 6408
Nezara viridula 8280
[Hemiptera: Scutelleridae]
Eurygaster 6399

Aspergillus clavatus

- [Hemiptera: Aphididae]
Myzus persicae 4359
[Hemiptera: Pseudococcidae]
Phenacoccus solenopsis 9375

Aspergillus flavus

- [Hemiptera: Pseudococcidae]
Phenacoccus solenopsis 9376

Aspergillus niger

[Hemiptera: Pentatomidae]
Dolycorus 6407
[Hemiptera: Scutelleridae]
Eurygaster 5721

Aspergillus ochraceus

[Hemiptera: Scutelleridae]
Eurygaster 5722

Batkoa sp.

[Hemiptera: Aphididae]
Acyrtosiphon pisum 3131

Batkoa apiculata

[Hemiptera: Aphididae]
Acyrtosiphon kondoi 839
Acyrtosiphon pisum 2504 3130 3136 3140
Brevicoryne brassicae 1146
Macrosiphum euphorbiae 174
Myzus ascalonicus 67
Myzus persicae 129
Rhopalosiphum maidis 3088 3091
Rhopalosiphum padi 3080 5994
[Hemiptera: Cicadellidae]
Unknown species 5552

Batkoa major

[Hemiptera: Aphididae]
Unknown species 1427
[Hemiptera: Cicadellidae]
Empoasca fabae 2936 3102 3103

Beauveria sp.

[Hemiptera]
Unknown species 11754
[Hemiptera: Membracidae]
Unknown species 2164
[Hemiptera: Miridae]
Adelphocoris 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1213 1214 1215 1216 1218 1219 1220 1221 1222 1224
[Hemiptera: Scutelleridae]
Eurygaster 5686

Beauveria amorphia

[Hemiptera: Cicadellidae]
Nephotettix bipunctata cincticeps 656

Beauveria bassiana

[Hemiptera]
Unknown species 5978 7583
[Hemiptera: Adelgidae]
Adelges tsugae 5170 5171 5767 5768 5769 5770 5796 6027
[Hemiptera: Aleyrodidae]
Bemisia tabaci 4981 4982 4983 4984 5274 5275 5276 5277 5278 5279 5280 5281 5282 5283 5284 5285 5287 5288 5289 5290 5291 5292 5293 5294 5295 5296
Trialeurodes vaporariorum 6920 6921 6922 6923 6924 9451
[Hemiptera: Anthocoridae]
Anthocoris nemorum 8028

[Hemiptera: Aphididae]

Unknown species 3120 4523 4524
Aphis gossypii 5493 5494
Diuraphis noxia 2861 2864 2879 2882 3154 3155 3156 3157 3158 3166 3167 3168 3169 3215 3867 3890 3891 3892 3905 3906 3907 3908 4099 4100 4101 4106 4107 4108 4109 4110 4111 4112 4113 4114 4115 4116 4117 4118 4119 4120 4121 4462 4463 4464 4691 4692 4693 4694 4695 4696 4697 4976 4977 4978 4979 5705 6968 6969 6978 6979 6980
Myzus persicae 3385
Rhopalosiphum padi 6970
Schizaphis graminum 2336 2860 2880 2881 2883

[Hemiptera: Cercopidae]

Deois flavopicta 806 3019
Zulia carbonaria 6459
Zulia entreriana 477

[Hemiptera: Cicadellidae]

Unknown species 945 7590 8710 8711 9443
Balacha melanocephala 7464 7465 7467 7469 8370 8459 8460 8528 8529
Molopopterus theae 6982
Nephotettix bipunctata cincticeps 708 1553 1554 1555 1556
Nephotettix cincticeps 1098
Pawiloma victima 8371

[Hemiptera: Cicadidae]

Unknown species 2544 7256 7258 11712

[Hemiptera: Cixiidae]

Oliarus dimidiatus 7776

[Hemiptera: Coccidae]

Unknown species 6723

[Hemiptera: Coreidae]

Leptoglossus fulvicornis 3086

[Hemiptera: Delphacidae]

Nilaparvata lugens 654 679 709 714 717 719 2427 7592

[Hemiptera: Lygaeidae]

Unknown species 8706
Blissus leucopterus 792 2430
Nysius vinitor 300
Scolopostethus affinis 8027

[Hemiptera: Membracidae]

Unknown species 3312 3999
Kronides 7468
Spissistilus festinus 8318

[Hemiptera: Mesoveliidae]

Mesovelia mulsanti 320

[Hemiptera: Miridae]

Unknown species 3449 3454 3456
Adelphocoris 1516 1517 1523 1524 1525 1526 1527 1528 1529 1531 1533 1534 1535 1536 1537 1538 1539 1540 1635 1636 1637 1638 1640 1643 1650 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1801
Leptopterna dolabrata 8036

Liocoris tripustulatus 8025

Lygus 886 1394 1395 1396 1397 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1520 1521 1648 1649 1802 1803 1804 1805 1806 1807 1808 1809 1810 1812 1813 1814 1822 2318 2319 2320 2321 2322 2458 2462

Lygus ?linearis 1317 1318 1319 1320 1321 1322 1323 1324 1325

Lygus hesperus 6660 6661

Lygus lineolaris 3769 5808 8317 8889

Lygus pratensis 2461

Notostira elongata 8029 8030

Stenodema laevigatum 8026

[Hemiptera: Nabidae]

Nabis 1988

[Hemiptera: Pentatomidae]

Unknown species 737 944 1973 1974 1984 6722

Acanthosoma labiduroides 7240 7246 7273

Aelia 6093

Dolycorus 6404 6426

Euschistus heros 1478

Nezara viridula 1054 1474 2011 2457 2516 4092 4093

Oebalus poecilus 2191

Podisus 1457 2519

Tibraca limbativentres 933 4091

[Hemiptera: Pseudococcidae]

Rhizoecus 2236

[Hemiptera: Reduviidae]

Triatoma infestans 7147

[Hemiptera: Rhopalidae]

Leptocoris 560 566

Leptocoris oratorius 1269 1270

[Hemiptera: Scutelleridae]

Eurygaster 5665 5674 5725 5753 5762 6008 6009 6011 6013 6014 6016 6019 6039 6040 6041 6042 6056 6060 6065 6066 6067 6069 6070 6072 6073 6076 6079 6083 6086 6087 6088 6089 6090 6091 6115 6149 8932 10348 10349 10351 10352 10353 10354 10355 10356 10357 10358 10359 10360 10361 10362 11618 11619 11620

[Hemiptera: Tingidae]

Corythucha ciliata 812

Leptopharsa heveae 7984 8637 8638

[Thysanoptera: Phlaeothripidae]

Haplothrips tritici 4200

[Thysanoptera: Thripidae]

Unknown species 9927 11841 11846 11847 11848

Frankliniella occidentalis 3995 3996 9587 9588

Taeniothrips inconsequens 10138

10139 10140 10143 10144 10145 10147 10148

Beauveria bassiana(?)

[Hemiptera: Adelgidae]

Adelges tsugae 5815 5816 5817 5818

[Hemiptera: Aphididae]

Diuraphis noxia 6608

[Hemiptera: Scutelleridae]

Eurygaster 5684**Beauveria brongniartii**

[Hemiptera: Cicadellidae]

Nephotettix bipunctata cincticeps 678

[Hemiptera: Cicadidae]

Magiccada septendecim 7376

[Hemiptera: Scutelleridae]

Eurygaster 6023**Beauveria kipukae**

[Hemiptera: Delphacidae]

Unknown species 7032

Beauveria pseudobassiana

[Hemiptera: Aphididae]

Unknown species 3121

Diuraphis noxia 3153

[Hemiptera: Scutelleridae]

Eurygaster 5724 6015 6022 6043

[Thysanoptera: Thripidae]

Thrips calcaratus 3216**Calcarisporium ovalisporum**

[Hemiptera: Delphacidae]

Nilaparvata lugens 1907**Cladosporium sp.**

[Hemiptera: Aleyrodidae]

Unknown species 3706

[Hemiptera: Aphididae]

Brevicoryne brassicae 4795*Rhopalosiphum padi* 11866

[Hemiptera: Cicadellidae]

Unknown species 7039

[Hemiptera: Coccidae]

Unknown species 7035

Cladosporium cladosporioides

[Hemiptera: Aphididae]

Pemphigus betae 3463

[Hemiptera: Pseudococcidae]

Phenacoccus solenopsis 9614

[Thysanoptera: Thripidae]

Thrips palmi 3375**Cladosporium cladosporioides**(?)

[Hemiptera: Aphididae]

Unknown species 7033

Cladosporium herbarum

[Hemiptera: Aphididae]

Aphis gossypii 4361**Clonostachys rosea**

[Hemiptera: Cicadellidae]

Oncometopia tucumana 7200*Sonesimia grossa* 7472**Colletotrichum sp.**

[Hemiptera: Coccidae]

Neolecanium cornuparvum 10308*Parthenolecanium* 12083**Colletotrichum florinae**

[Hemiptera: Diaspididae]

Fiorinia externa 10219 10220 10221

10222 10223

Colletotrichum gloeosporioides

[Hemiptera: Ortheziidae]

Orthezia praelonga 4360**Conidiobolus sp.**

[Hemiptera: Adelgidae]

Adelges tsugae 11650

[Hemiptera: Aphididae]

Unknown species 999 1426

Aphis fabae 3383*Brevicoryne brassicae* 2130*Eriosoma lanigerum* 6659*Myzus persicae* 3384*Schizaphis graminum* 1967

[Hemiptera: Cercopidae]

Unknown species 391

Deois 2147*Deois flavopicta* 2148

[Hemiptera: Cicadellidae]

Nephotettix bipunctata cincticeps 605
606

[Hemiptera: Cixiidae]

Oliarus dimidiatus 7786

[Hemiptera: Delphacidae]

Nilaparvata lugens 211 517 522 564

595 596

Sogatella furcifera 604

[Hemiptera: Membracidae]

Gargara 5404 5405 5406**Conidiobolus coronatus**

[Hemiptera: Aphididae]

Acyrtosiphon pisum 1738*Metopolophium dirhodum* 2812 2813
2814

[Hemiptera: Cicadellidae]

Unknown species 419 421 422

Empoasca fabae 3099 3109*Nephotettix bipunctata cincticeps* 520
597

[Hemiptera: Delphacidae]

Delphacodes haywardii 7203*Nilaparvata lugens* 349 405 406 418
511 512 514 523 524 525 528 563

565 655 997 1876

[Thysanoptera: Thripidae]

Unknown species 6512 9914

Frankliniella occidentalis 3222**Conidiobolus lachnodes**

[Hemiptera: Delphacidae]

Nilaparvata lugens 700**Conidiobolus nr. coronatus**

[Hemiptera: Delphacidae]

Nilaparvata lugens 598 599 600 1742
1743*Sogatella furcifera* 602**Conidiobolus obscurus**

[Hemiptera: ?Aphididae]

Unknown species 243

[Hemiptera: Aphididae]

Unknown species 434

Acyrtosiphon kondoi 354 824*Acyrtosiphon pisum* 832 834 1741

3132 3133 3134 3135 3137 3138

3139 3141

Aphis 124*Aphis armata* 133 355*Macrosiphum euphorbiae* 182*Metopolophium dirhodum* 97 3092*Rhopalosiphum maidis* 3089 3090*Rhopalosiphum padi* 1131 5992*Therioaphis maculata* 74*Uroleucon* 121 122**Conidiobolus osmodes**(?)

[Hemiptera: Aphididae]

Rhopalosiphum padi 5993**Conidiobolus thromboides**

[Hemiptera: Aphididae]

Unknown species 58 59 248 249 250
1006*Acyrtosiphon pisum* 100 6662*Aphis fabae* 42 242 244 245 246 247

630 631 632 633 634 635 1735

Aphis glycines 7209 7210 7211 11664*Aphis gossypii* 83 194*Cavariella theobaldi* 101 102 363 1733
1734*Diuraphis noxia* 4968*Diuraphis tritici* 2914*Macrosiphum euphorbiae* 40*Metopolophium dirhodum* 2828 2829
2849 2850*Myzus persicae* 2 39 41 57 63 99 649*Rhopalosiphum insertum* 73*Schizaphis graminum* 2955*Therioaphis maculata* 15 29 115 208*Uroleucon* 120

[Hemiptera: Cicadellidae]

Empoasca fabae 3129**Cordyceps sp.**

[Hemiptera: Cercopidae]

Unknown species 6349

[Hemiptera: Cicadellidae]

Unknown species 6281

[Hemiptera: Pentatomidae]

Unknown species 4846

Curvularia sp.

[Hemiptera: Cercopidae]

Zulia carbonaria 6367**Cylindrocarpus sp.**

[Hemiptera: Pentatomidae]

Aelia 5758**Dactylella sp.**

[Hemiptera: Cercopidae]

Aeneolamia varia 6372**Doratomyces**(?) sp.

[Hemiptera: Adelgidae]

Adelges tsugae 9367

Engyodontium(?) sp.

[Hemiptera: Psyllidae]
Unknown species 9476

Entomophaga sp.

[Hemiptera: Cicadellidae]
Empoasca kraemeri 1230
Nephotettix bipunctata cincticeps 1126
[Hemiptera: Delphacidae]
Nilaparvata lugens 1881

Entomophaga australiensis

[Hemiptera: Cicadellidae]
Unknown species 743
Cicadella 328
Empoasca kraemeri 791
[Hemiptera: Cicadidae]
Cicadetta puer 331 365
[Hemiptera: Delphacidae]
Nilaparvata lugens 581

Entomophaga praxibuli

[Hemiptera: Cicadellidae]
Empoasca vitis 3058

Entomophthora chromaphidis

[Hemiptera: Aphididae]
Acyrtosiphon kondoi 1860 1862 1863

Entomophthora planchoniana

[Hemiptera: Aphididae]
Ovatus crataegarius 6251 6252

Entomophthora thripidum

[Thysanoptera: Thripidae]
Thrips tabaci 5868 6517 6518 6519
6520 6521 6522 6525

Erynia sp.

[Hemiptera: Aphididae]
Unknown species 2279
Brevicoryne brassicae 2294
Macrosiphum euphorbiae 2292
Therioaphis maculata 1666

Eurotiomycetes, genus undetermined

[Hemiptera: Adelgidae]
Adelges tsugae 9360 9361

Evlachovaea sp.

[Hemiptera: Tingidae]
Leptopharsa heveae 6635 6638 6639
6640 6641
[Thysanoptera: Thripidae]
Unknown species 11788

Exophiala sp.

[Hemiptera: Adelgidae]
Adelges tsugae 9362

Furia virescens

[Hemiptera: Miridae]
Notostira elongata 394

Fusarium sp.

[Hemiptera: Adelgidae]
Adelges tsugae 5803 5825
[Hemiptera: Aleyrodidae]
Unknown species 4002
Bemisia tabaci 3668 3669 3670 3671
3672 3673 3674 3675 3676 3677
3678 3679 5332
[Hemiptera: Aphididae]
Unknown species 3704 3707
Aphis fabae 8277 8278 8287
Aphis gossypii 5726 5727 5728 7233
Diuraphis noxia 4969
Rhopalosiphum padi 2337 11865
Sitobion avenae 2333
Toxoptera aurantii 6790
[Hemiptera: Cercopidae]
Aeneolamia postica 3345
Mahanarva andigena 6460 6461 6464
Prosapia nr. bicincta 4713 4714 4715
Zulia carbonaria 6465
Zulia colombiana 6348 6351 6352 6353
6354 6358
Zulia pubescens 6320 6375 6576
[Hemiptera: Coccidae]
Unknown species 1828
Coccus viridis 2232
Parthenolecanium 12072 12073 12074
12075 12076 12077 12078 12079
12084
[Hemiptera: Delphacidae]
Nilaparvata lugens 687
Sogatella furcifera 8282 8283 8285
[Hemiptera: Diaspididae]
Lopholeucaspis japonica 6225
[Hemiptera: Membracidae]
Ceresa bubalus 8279
[Hemiptera: Miridae]
Adelphocoris 1307 1641
[Hemiptera: Pentatomidae]
Dolycorus 6411
Halyomorpha halys 10311 10312 10313
10388 10389 10390 10391 11655
[Hemiptera: Pseudococcidae]
Phenacoccus solenopsis 9377
[Hemiptera: Psyllidae]
Heteropsylla cubana 2303
[Hemiptera: Reduviidae]
Triatoma infestans 7473
[Hemiptera: Scutelleridae]
Eurygaster 5680 5682 5755 5757 6394
6395 6396 6397 6398 6400 6401
6402 6403 6409 6410 6425 6428
6429
[Thysanoptera: Thripidae]
Unknown species 9937 11790
Scirtothrips dorsalis 7381

Fusarium coccophilum

[Hemiptera: Coccoidea]
Unknown species 7409
[Hemiptera: Diaspididae]
Lepidosaphes 2098
Melanaspis obscura 821

Fusarium lateritium

[Hemiptera: Psyllidae]
Heteropsylla cubana 2304

Fusarium moniliforme

[Hemiptera: Diaspididae]
Melanaspis glomerata 2074

Fusarium moniliforme var. intermedium

[Hemiptera: Delphacidae]
Nilaparvata lugens 3223

Fusarium oxysporum(?)

[Hemiptera: Cercopidae]
Zulia colombiana 6355

Fusarium semitectum

[Hemiptera: Delphacidae]
Nilaparvata lugens 2053
[Hemiptera: Psyllidae]
Heteropsylla incisa 2299 2300

Fusarium subglutinans

[Hemiptera: Coccidae]
Pulvinaria elongata 2145
[Hemiptera: Lophopidae]
Pyrilla perpusilla 2143 2144
[Hemiptera: Psyllidae]
Heteropsylla incisa 2301

Geotrichum (?) sp.

[Hemiptera: Adelgidae]
Adelges tsugae 5823

Gliocladium(?) sp.

[Hemiptera: Margarodidae]
Icerya purchasi 6579 6583

Hirsutella sp.

[Hemiptera]
Unknown species 4511
[Hemiptera: Cicadellidae]
Empoasca kraemeri 1625 2644 2645
2646 2647 2648 2649 2650 2651
2652 2653 2654 2655 2656 2657
2992
[Hemiptera: Cixiidae]
Oliarus dimidiatus 8378
[Hemiptera: Delphacidae]
Nilaparvata lugens 568 1096
[Hemiptera: Derbidae]
Lydda 4515
[Hemiptera: Diaspididae]
Nuculaspis tsugae 1668
[Hemiptera: Miridae]
Cyrtorhinus lividipennis 2208 2209
[Hemiptera: Psyllidae]
Diaphorina citri 9605 9606 11755
11757 11758 11759 11760 11761
[Thysanoptera: Phlaeothripidae]
Liothrips mikaniae 4513 4514
[Thysanoptera: Thripidae]
Taeniothrips inconsequens 2939 2940
3266 3318 3546 3548 3553
Thrips palmi 4193

Hirsutella citriformis

[Hemiptera: Cixiidae]

Myndus crudus 1035 1446

[Hemiptera: Delphacidae]

Unknown species 2428

Nilaparvata lugens 490 532 591 684

1036 1062 1063 1064 1243 1244

1245 1246 1249 1251 1252 1253

1254 1255 1256 1257 1258 1259

1436 1549 1550 1837 1913 1917

1918 1919 2099 2100 2101 2102

2103 2346 2420 2422 2423 2426

[Hemiptera: Psyllidae]

Diaphorina citri 8315 9180 11665*Heteropsylla cubana* 2347 2598**Hirsutella cryptosclerotium**

[Hemiptera: Pseudococcidae]

Rastrococcus invadens 4517**Hirsutella guyana**

[Hemiptera: Cicadellidae]

Unknown species 2352 2387

Empoasca kraemeri 878 879 881 882

883 2993

Hirsutella illustris

[Hemiptera: Aphididae]

Eriosoma lanigerum 5539**Hirsutella lecanicola**

[Hemiptera: Coccidae]

Parthenolecanium corni 8888**Hirsutella repens**

[Hemiptera: Delphacidae]

Nilaparvata lugens 2348 2359 2394**Hirsutella rhossiliensis**

[Thysanoptera: Thripidae]

Unknown species 11820

Hirsutella strigosa

[Hemiptera: Cicadellidae]

Nephotettix virescens 2197

[Hemiptera: Delphacidae]

Nilaparvata lugens 2044**Hirsutella versicolor**

[Hemiptera: Cicadellidae]

Idiocerus nitidulus 4512

[Hemiptera: Membracidae]

Unknown species 1034 1037

Hirsutella verticillioides

[Hemiptera: Cicadellidae]

Idioscopus clypealis 2599**Hypocrella discoidea**

[Hemiptera: Coccoidea]

Unknown species 7681

Hypocrella javanica

[Hemiptera: Coccoidea]

Unknown species 7605

Hypocrella panamensis

[Hemiptera: Coccoidea]

Unknown species 8361

Hypocrella raciborskii

[Hemiptera: Coccoidea]

Unknown species 7606

Isaria sp.

[Hemiptera: Adelgidae]

Adelges tsugae 11630

[Hemiptera: Psyllidae]

Unknown species 9517

[Hemiptera: Scutelleridae]

Eurygaster 10363 10364 10365 10366

10367 10368 10369 10370 10371

10372 10373 10374 10375 10376

10377 10378 10379 10380 10381

10382 10383 10384 10385 11631

11632 11633 11634 11635 11636

[Thysanoptera: Thripidae]

Taeniothrips inconsequens 10162

10231 10232 10233 11629

Isaria farinosa

[Hemiptera: Adelgidae]

Adelges tsugae 5178 5760 5761 5774

5775 5776 5784 5788 5790 5792

5797 5799 5800 5801 5802 5826

5827 5830 6028 6029 6030 6031

6032 6033 6034 6036 6037 6038

6048 6049

[Hemiptera: Aleyrodidae]

Aleurocanthus woglumi 2954*Bemisia tabaci* 3572 3574 3575 3576

3578 3579 3580 3582 3583 3584

3585 3586 3587 3588 3589 3591

3592 3593 3658 3659 3661 5081

5082 5083 5084 5306

Trialeurodes vaporariorum 4412

[Hemiptera: Aphididae]

Diuraphis noxia 6222 6609 6983

[Hemiptera: Coccidae]

Unknown species 9513

[Hemiptera: Lygaeidae]

Unknown species 6496

[Hemiptera: Miridae]

Unknown species 6607

[Hemiptera: Pentatomidae]

Unknown species 11833

Aelia 6097 6098 6493 6497

[Hemiptera: Scutelleridae]

Eurygaster 5675 5676 5679 6012 6017

6020 6044 6481 6490 6495

Eurygaster integriceps 6288

[Thysanoptera: Thripidae]

Unknown species 11822 11823

Taeniothrips inconsequens 3564 10155

10157 10158 10159 10161

Isaria farinosa(?)

[Hemiptera: Psyllidae]

Unknown species 7219

Isaria fumosorosea

[Hemiptera: Aleyrodidae]

Bemisia 3313 3800 6797 6798*Bemisia argentifolii* 5154 5155 5156

5157 5158 5159 5462 5463 5464

Bemisia tabaci 3076 3083 3322 3408

3581 3590 3594 3660 3662 3663

3699 3700 3843 3848 3851 3878

3889 4482 4483 4484 4485 4486

4490 4491 4492 4493 4494 4495

4496 4497 4498 4499 4501 4502

4503 5085 5086 5087 5088 5089

5090 5107 5113 5115 5116 5117

5118 5119 5121 5122 5260 5261

5262 5263 5264 5265 5266 5267

5268 5269 5270 5271 5272 5297

5298 5299 5300 5301 5302 5303

5304 5305 5307 5308 5309 5310

5311 5312 5313 5314 5315 5316

5317 5318 5319 5320 5322 5323

5324 5325 5326 5327 5328 5329

5330 5331 5475 5476 6434 6435

6562

Trialeurodes vaporariorum 2658 4205

4401 4404 4406 4407 4408 4409

4410 4411 4413 4414 4415 6916

7051 7204 7205 8716 8717 8718

8719 8720 8721 8723 8724 8725

8726 8727 8728 8729 8730 8928

[Hemiptera: Aphididae]

Unknown species 3682 4400 6789

Diuraphis noxia 3824 4383 4459 4460

4461 4698 4699 4700 4701 4702

4703 4704 4705 4706 4707 4708

4709 4710 4711

Myzus persicae 3458

[Hemiptera: Delphacidae]

Nilaparvata lugens 2198

[Hemiptera: Miridae]

Adelphocoris 1530 1532

[Hemiptera: Pentatomidae]

Unknown species 3429

[Hemiptera: Pseudococcidae]

Phenacoccus solani 2247

[Hemiptera: Psyllidae]

Heteropsylla incisa 2175

[Hemiptera: spf. Fulgoroidea]

Unknown species 7050

Isaria javanica

[Hemiptera: Aleyrodidae]

Bemisia 3303*Bemisia tabaci* 3573 3577 3776 3778

5259 5321

Trialeurodes vaporariorum 7477**Isaria poprawskii**

[Hemiptera: Aleyrodidae]

Bemisia argentifolii 7028**Isaria sinclairii**

[Hemiptera: Cicadidae]

Mogannia hebes 6925**Lecanicillium sp.**

[Hemiptera: Adelgidae]

Adelges tsugae 9175 9176 9924 9925

9926 11648 12089

[Hemiptera: Aphididae]

Toxoptera citricida 2009

[Hemiptera: Coccidae]

Parthenolecanium 12052 12053 12054

12055 12056 12057 12058 12059

12060 12061 12062 12063 12064

12065 12066 12067 12068 12069

12070 12071

Metarhiziopsis microspora

[Hemiptera: Diaspididae]

Fiorinia externa 8676 8984 8985 8986
8987 8988 11842 11843 11851**Metarhizium sp.**

[Hemiptera: Cicadellidae]

Unknown species 2353

[Hemiptera: Cicadidae]

Unknown species 7645

[Thysanoptera: Thripidae]

Unknown species 11839

Metarhizium album

[Hemiptera: Cicadellidae]

Unknown species 2081

Cofana spectra 2082*Nephotettix virescens* 1840 1941 1942

1943 2176 2178

Recilia dorsalis 2179**Metarhizium anisopliae sensu lato**

[Hemiptera]

Unknown species 4901 4902

[Hemiptera: Adelgidae]

Adelges tsugae 9590

[Hemiptera: Aphididae]

Diuraphis noxia 3822*Pemphigus trehernei* 6570

[Hemiptera: Cercopidae]

Unknown species 1282 1299 1379 1382

1890 1891 1895 1899 1902 1911

3147 3307 7474 7475 7476 8376

8498 8527

Aeneolamia varia 6319 6342 6343 6345

6346

Deois 2521*Deois flavopicta* 729 759 782 925 955

1970

Deois incompleta 1449*Kanaima fluvialis* 8377*Mahanarva posticata* 1896 1898*Mahanarva sp.* 6321 6322*Zulia carbonaria* 6457 6468*Zulia colombiana* 6356*Zulia pubescens* 6323

[Hemiptera: Cicadellidae]

Recilia dorsalis 543

[Hemiptera: Cicadidae]

Unknown species 4095

[Hemiptera: Delphacidae]

Nilaparvata lugens 456 457 485 486

487 488 489 1284 1285 1286 1290

1300 1304 1726 1727 1728 1744

1745 1823 2038 2039 7644

[Hemiptera: Pentatomidae]

Nezara viridula 1055*Scotinophara coarctata* 1432 1548 2341

2342 2343

Tibraca limbativentres 1882 2212 2213

2214

[Hemiptera: Pseudococcidae]

Paracoccus marginatus 9612 9613

[Thysanoptera: Thripidae]

Unknown species 11840

Frankliniella occidentalis 9591*Taeniothrips inconsequens* 10135

10136 10137

Metarhizium anisopliae sensu stricto

[Hemiptera: Cercopidae]

Unknown species 1045 1912

Aeneolamia varia 798 3621 6347*Deois flavopicta* 1044 1900 2517*Mahanarva fimbriolata* 7979 7981*Mahanarva posticata* 1894 2627 7980*Zulia pubescens* 6317 6318

[Hemiptera: Cicadellidae]

Nephotettix virescens 2153

[Hemiptera: Delphacidae]

Nilaparvata lugens 2080 2421

[Hemiptera: Pentatomidae]

Unknown species 755

Tibraca limbativentres 1883**Metarhizium brunneum**

[Hemiptera: Delphacidae]

Nilaparvata lugens 455**Metarhizium flavoviride 'Type E'**

[Hemiptera: Cicadellidae]

Unknown species 2948

Metarhizium flavoviride var. minus

[Hemiptera: Cicadellidae]

Unknown species 2339

Nephotettix virescens 1945*Recilia dorsalis* 1546 1547

[Hemiptera: Delphacidae]

Nilaparvata lugens 1099 1271 1272

1273 1274 1275 1276 1277 1279

1283 1287 1288 1289 1291 1292

1293 1294 1295 1296 1297 1301

1302 1303 1305 1763 1764 1765

1766 1767 1768 1769 1770 1771

1772 1773 2037

Metarhizium flavoviride var. pemphigum

[Hemiptera: Aphididae]

Pemphigus 7491*Pemphigus trehernei* 6569**Metarhizium pingshaense**

[Hemiptera: Cicadellidae]

Nephotettix cincticeps 2043*Nephotettix virescens* 2106

[Hemiptera: Cydnidae]

Scaptocoris castanea 1448

[Hemiptera: Delphacidae]

Nilaparvata lugens 576 1724 1725 1729

[Hemiptera: Pentatomidae]

Scotinophara coarctata 1545**Metarhizium robertsii**

[Hemiptera: Cicadidae]

Unknown species 3925

[Hemiptera: Cydnidae]

? *Cirtonemus* 1952**Mixed Culture sp.**

[Hemiptera: Aleyrodidae]

Bemisia tabaci 4066*Trialeurodes vaporariorum* 4403**Moelleriella umbospora**

[Hemiptera: Coccoidea]

Unknown species 11870 11871

Mucor sp.

[Hemiptera: Cercopidae]

Zulia vilior costarricensis 3535**Myriangium sp.**

[Hemiptera: Adelgidae]

Adelges tsugae 9915 9916 9917 9918

9919 11856 11857 11858

[Hemiptera: Diaspididae]

Fiorinia externa 11852 11853 11854

11855

Myriangium duriae

[Hemiptera: Diaspididae]

Fiorinia externa 8924 8925**Myriodontium keratinophilum**

[Hemiptera: Adelgidae]

Adelges tsugae 11838

[Hemiptera: Diaspididae]

Fiorinia externa 11837**Neozygites parvispora**

[Thysanoptera: Thripidae]

Thrips tabaci 5620 5621**Nomuraea cylindrospora**

[Hemiptera: Cicadidae]

Pomponia linearis 6926**Nomuraea rileyi**

[Hemiptera: Delphacidae]

Sogatella furcifera 558**Nomuraea viridulus**

[Hemiptera: Cicadidae]

Cryptotympana facialis 6927**Ophiocordyceps heteropoda**

[Hemiptera: Cicadidae]

Cicadetta puer 1880**Paecilomyces sp.**

[Hemiptera: Adelgidae]

Adelges tsugae 5179 5180

[Hemiptera: Aleyrodidae]

Bemisia argentifolii 5160*Bemisia tabaci* 3772 3774 3775 3777

3780 3781 3782 3783 3784 3785

3786 3787 3788 3870 3871 3872

3873 3874 3875 3877 4985 4986

4987 4988 4989 5091 5092 5093

5094 5095 5096 5097 5098 5099

5100 5101 5102 5103 5104 5105

5106 5108 5109 5110 5111 5112

5114

[Hemiptera: Cicadellidae]

Recilia dorsalis 680

[Hemiptera: Pentatomidae]

Unknown species 7075

Nezara viridula 3101

[Hemiptera: Psyllidae]

Diaphorina citri 8316**Paecilomyces carneus**

[Thysanoptera: Thripidae]

Unknown species 11821

Paecilomyces crustaceus(?)

[Hemiptera: Cercopidae]

Zulia carbonaria 6462 6467

Paecilomyces lilacinus(?)

[Hemiptera: Cercopidae]

Zulia carbonaria 6458

Paecilomyces marquandii

[Thysanoptera: Thripidae]

Unknown species 9928 9929

Pandora delphacis

[Hemiptera: Cicadellidae]

Unknown species 1238 1936

Empoasca fabae 3072 3093 3094 3095
3096 3106 3107

Nephotettix cincticeps 458 459 460 461
478

Recilia dorsalis 659 660

[Hemiptera: Delphacidae]

Nilaparvata lugens 134 575 579 580
657 664 665 666 667 668 669 670
672 673 674 676 682 686 698 713
716 1124 1132 1133 1264 1268
1730 1731 2091

Sogatella furcifera 593 603 2092 2093
2095 2096 2409 6538 6539

Sogatodes pusanus 2094

[Hemiptera: Membracidae]

Spissistilus festinus 2028 3484

[Hemiptera: Miridae]

Unknown species 3062

Pandora heteropterae

[Hemiptera: Miridae]

Lygus lineolaris 9266

Pandora kondoiensis

[Hemiptera: Aphididae]

Acyrtosiphon kondoi 369 825 828 836
837

Pandora neoaphidis

[Hemiptera: Aphididae]

Unknown species 78 381 1695 1696
2016 2298 6902

Acyrtosiphon pisum 827 830 838 1598
1603 1605 1609 2017 2018 2583
2584 2585 2587 2588 2589 2591
2592 2593 2594 2754 2755 2756
2757 2758 2760 2761 2762 2763
2766 2767 2768 2769 2773 2781
2782 2783 2784 2837 2838 2839
2840 2842 2844 2845 2846 2847
2848 2851 2852 2853 2854 2855
2856 2865 2866 2867 2868 2870
2872 2873 3234 3237 3240 4934
6631 7937 11663

Aphidula 1610 1615

Aphis 128 3410

Aphis fabae 608 609 610 611 612 613
614 636 637 638 639 1606 1611
1981 1985 2019 2020 3238 3241
5995

Aphis glycines 7212 7213 7214 7226
8607

Brevicoryne brassicae 1613 1616 1617
1784 1785 1786 1824 1825 1826
1827 2108 2109 2110 2112 2114
2115 2116 2117 2118 2119 2120

2121 2122 2123 2124 2128 2280

2293 5371 5372 5373 5374

Dactynotus formosanus 1137

Diuraphis noxia 3081 3082 3126 3174
3175

Hyalopterus pruni 1596

Hyperomyzus lactucae 829 833 835

Macrosiphum 1607 1612

Macrosiphum akebiae 1134

Macrosiphum euphorbiae 181

Macrosiphum rosae 1986 1987

Metopolophium dirhodum 2874 2875
2876 3365 3367 5707 5708

Microlophium carnosum 7938 7939

Myzus 1601 1602

Myzus nicotinae 3411 3412 3459

Myzus persicae 1600 2085 2086 3248
3249 3250 3251 11662

Nasonovia ribisnigri 11862 11863

Schizaphis graminum 3366

Sitobion 1597 1604

Sitobion avenae 5403 6166

Uroleucon formosanus 993

[Hemiptera: Miridae]

Lygus 1570

Pandora nouryi

[Hemiptera: Aphididae]

Unknown species 199

Acyrtosiphon kondoi 362

Lipaphis erysimi 8930 8931

Therioaphis maculata 366

Penicillium sp.

[Hemiptera: Cercopidae]

Zulia colombiana 6357 6359

[Hemiptera: Ortheziidae]

Orthezia praelonga 2643

Phoma sp.

[Hemiptera: Adelgidae]

Adelges tsugae 9920 9923

Polycephalomyces ramosus

[Hemiptera: Pentatomidae]

Unknown species 4858

Pseudogibellula formicarum

[Hemiptera: Cercopidae]

Unknown species 2913

[Hemiptera: Flatidae ?]

Unknown species 5765 5766

Purpureocillium lilacinum

[Hemiptera]

Unknown species 9604

[Hemiptera: Aleyrodidae]

Singhiella simplex 9610

Trialeurodes vaporariorum 3846

[Hemiptera: Aphididae]

Diuraphis noxia 6985

[Hemiptera: Cercopidae]

Deois flavopicta 2078 3481

Zulia pubescens 6340

[Hemiptera: Cicadellidae]

Unknown species 9523

[Hemiptera: Cicadidae]

Unknown species 6247

[Hemiptera: Pentatomidae]

Unknown species 531

Edessa mediatubunda 10225

Scotinophara coarctata 763

Tibraca limbativentres 2215

[Hemiptera: Reduviidae]

Triatoma infestans 7478

[Hemiptera: Scutelleridae]

Eurygaster 6018 6021 6024 6026 6080

6081 6082 6084 6094 6114 6116

6117 6494 6502

Rhinocycladiella(?) sp.

[Hemiptera: Adelgidae]

Adelges tsugae 9365 9922

[Hemiptera: Coccidae]

Parthenolecanium 12080 12081 12082

Scopulariopsis sp.

[Hemiptera: Adelgidae]

Adelges tsugae 5164

[Hemiptera: Aleyrodidae]

Bemisia tabaci 8825 8826 8827

[Hemiptera: Pentatomidae]

Halyomorpha halys 10309 10310

Septobasidium carestianum

[Hemiptera: spf. Coccoidea]

Unknown species 6473

Simplicillium sp.

[Hemiptera: Aleyrodidae]

Bemisia tabaci 6584

Simplicillium lamellicola

[Hemiptera: Aleyrodidae]

Unknown species 9481

[Hemiptera: Pentatomidae]

Palomena prasina 11727 11728 11729
11732 11735 11737

Simplicillium lamellicola(?)

[Hemiptera: Pentatomidae]

Palomena prasina 11738

Simplicillium lanosoniveum

[Hemiptera: Coccidae]

Parthenolecanium corni 7623

[Hemiptera: Tingidae]

Leptopharsa heveae 6430 6431 6432
6636 6637 6642

Sporodiniella umbellata

[Hemiptera: Jassidae]

Unknown species 5222

Sporothrix sp.

[Hemiptera: Cicadellidae]

Unknown species 7038

[Hemiptera: Delphacidae]

Unknown species 7042

Nilaparvata lugens 1908

[Hemiptera: Psyllidae]

Diaphorina citri 10230

Sporothrix ghanensis

[Hemiptera: Coccoidea]

Unknown species 9500

Stachybotrys sp.[Hemiptera: Aphididae]
Sitobion avenae 2863**Sterile mycelium**[Hemiptera: Adelgidae]
Adelges tsugae 5819
[Hemiptera: Aleyrodidae]
Unknown species 3710 3711
Bemisia tabaci 3868
[Hemiptera: Aphididae]
Unknown species 3703 3705 3712
Brevicoryne brassicae 4376
[Hemiptera: Cercopidae]
Prosapia plagiata 4712
[Hemiptera: Cicadellidae]
Unknown species 3702
[Hemiptera: Pentatomidae]
Scotinophara coarctata 1435**Tilletiopsis** sp.[Hemiptera: Delphacidae]
Nilaparvata lugens 527 572 573**Tolypocladium** sp.[Hemiptera: Tingidae]
Leptopharsa heveae 6634**Tolypocladium cylindrosporum**[Thysanoptera: Thripidae]
Taeniothrips inconsequens 10146**Torribiella homopterorum**[Hemiptera: Delphacidae]
Nilaparvata lugens 2045**Torribiella piperis**[Hemiptera: Coccoidea]
Unknown species 7232**Trichoderma** sp.[Hemiptera: Cicadellidae]
Empoasca kraemeri 807
[Hemiptera: Diaspididae]
Unaspis citri 3084
[Thysanoptera: Thripidae]
Unknown species 9938**Trichoderma lignorum**[Hemiptera: Adelgidae]
Adelges tsugae 5176**Trichoderma viride**(?)[Hemiptera: Cercopidae]
Aeneolamia varia 6344**Trichothecium** sp.[Hemiptera: Cicadellidae]
Nephotettix bipunctata cincticeps 653
[Hemiptera: Miridae]
Adelphocoris 1217 1223**Trichothecium roseum**[Hemiptera: Aleyrodidae]
Unknown species 3708
[Hemiptera: Miridae]
Adelphocoris 1212 1226 1308 1639
1642**Tripospherum** sp.[Hemiptera: Adelgidae]
Adelges tsugae 9363**Verticillium** sp.[Hemiptera: Aleyrodidae]
Trialeurodes vaporariorum 4402
[Hemiptera: Aphididae]
Unknown species 4194 4195 4203 4398
4399
Myzus persicae 4074
[Hemiptera: Margarodidae]
Icerya purchasi 6580
[Hemiptera: Pentatomidae]
Aelia 6500
[Hemiptera: Rhopalidae]
Unknown species 6498
[Hemiptera: Scutelleridae]
Eurygaster 6480 6485
[Thysanoptera: Thripidae]
Taeniothrips inconsequens 3547 3550
3551 3552 3556 3561**Verticillium lecanii**[Hemiptera]
Unknown species 6290
[Hemiptera: Adelgidae]
Adelges tsugae 5771 5781 5783 5786
5789 5793 5820 5821 5824 6045
6046 6047 6050
Dreyfusia normanniana 5854
[Hemiptera: Aleyrodidae]
Bemisia tabaci 4064 4065 4067 4069
4070 4071 4072
Trialeurodes vaporariorum 4061 6544
6547
[Hemiptera: Aphididae]
Unknown species 4073 4416 4417 4418
4419 4420 4421 4422 4423 4453
4454 4455 4456 4457 5166 5809
Aphis gossypii 6541
Brachycaudus helichrysi 6540
Brevicoryne brassicae 5131
Diuraphis noxia 3862 3881 3902 3903
3904 3909 6606
Macrosiphoniella sanborni 6542
Myzus persicae 4075 4076 4077 4079
5130 6543
Sitobion avenae 2859
Toxoptera citricida 6144 6145
[Hemiptera: Coccidae]
Unknown species 2916
Coccus viridis 5153
Phytokermes hemichryphus 4025
Pulvinaria aurantii 6287 6291
[Hemiptera: Eriococcidae]
Cryptococcus fagisuga 3741 3742 3743
[Hemiptera: Scutelleridae]
Eurygaster 6025 6068 6085 6479
[Hemiptera: Tingidae]
Leptopharsa heveae 6651
[Thysanoptera: Thripidae]
Unknown species 6548
Thrips tabaci 5709**Verticillium pseudohepiterigenum**[Hemiptera: Coccoidea: Asterolecaniidae]
Bambusaspis sp. 5687**Zoophthora** sp.[Hemiptera: Aphididae]
Unknown species 7454**Zoophthora anglica**[Hemiptera: Miridae]
Notostira elongata 916 926**Zoophthora aphidis**[Hemiptera: Aphididae]
Anoecia corni 425**Zoophthora occidentalis**[Hemiptera: Aphididae]
Acyrtosiphon pisum 2841 3027 3028
3029 3071 3073
Macrosiphum euphorbiae 207**Zoophthora phalloides**[Hemiptera: Aphididae]
Brevicoryne brassicae 2281
Myzus rannaculinum 352**Zoophthora radicans**[Hemiptera: Aphididae]
Unknown species 7455 7788 7789
Acyrtosiphon pisum 11859
Aphis fabae 7208
Brachycaudus amygdalinus 75
Brevicoryne brassicae 11861
Capitophorus 822
Diuraphis noxia 3163
Drepanosiphum aceris 914 1130
Metopolophium dirhodum 2811
Nasonovia ribisnigri 11860
Therioaphis maculata 103 104 105 106
107 108 109 110 111 112 114 139
237 238 239 359 370 379 823
Therioaphis trifolii f. *maculata* 3737
[Hemiptera: Cercopidae]
Unknown species 800
[Hemiptera: Cicadellidae]
Unknown species 1239 1263 1495 1587
1591 2196 2549 2551 2552
Empoasca 2241 2242 2243 2244 2245
2246 2282 2283 2284 2285 2286
2287 2288 2289 3623
Empoasca fabae 1018 1019 1020 1021
1261 1262 1938 2400 2550 2716
2717 2718 2719 2720 2977 2978
2979 2980 3104 3105 3283 3284
3355 3376 3377 3390 3697 4520
Empoasca kraemeri 789 790 1227 1228
1229 1231 1232 1233 1234 1236
1237 1492 1493 1494 1496 1497
1498 1499 1500 1501 1502 1503
1504 1541 1542 1543 1544 1581
1582 1583 1584 1585 1586 1588
1589 1590 1593 1594 1595 1928
1929 1930 1931 1932 1933 1934
1935 1937 2994 2995 2996 3002
3003 3004 3005 3006 3007 3008
3009 3010 3011 3012 3013 3026
Empoasca vitis 2696 2700 2701 2702
2703 2706 2708 2709 2712 2713

3114 3116 3119 3149 3150 3151
 3159 3160 3162 3164 3165 3172
Hauptida distinguenda 2256 2257 2258
 2259 2260 2261 2262
Molopopterus theae 6605
Typhlocyba 3115 3170 3171
 [Hemiptera: Delphacidae]
Delphacodes striatella 1050
Nilaparvata lugens 685 1125 1136
 [Hemiptera: Miridae]
Dicyphus pallidus 389
 [Hemiptera: Psyllidae]
Psyllida etrioza 126
Trioza urticae 1719

Animalia

Arthropoda • Insecta

Hemiptera

Iran

Verticillium lecanii 6290

Location not specified

Metarhizium anisopliae sensu lato
4901 4902

Mexico

Aschersonia sp. 3015 11754*Purpureocillium lilacinum* 9604

Russian Federation

Beauveria bassiana 7583

Unidentified / Hyphomycetes 7806

Trinidad

Hirsutella sp. 4511

USA, Puerto Rico

7369

Aschersonia andropogonis 7391*Aschersonia rhombispora* 7390Unidentified / Hyphomycetes
7392

Poland

Unidentified sp. 1423

USA, Florida

Beauveria bassiana 5978

Colombia

Aschersonia turbinata 1030

Hemiptera: ?Aphididae

Poland

Conidiobolus obscurus 243

Hemiptera: Adelgidae

*Adelges tsugae**Beauveria bassiana*(?) 5815

PR China

Beauveria bassiana 6027*Isaria farinosa* 6028 6029 6030 6031

6032 6033 6034 6036 6037 6038

6048 6049

Lecanicillium muscarium 6035*Verticillium lecanii* 6045 6046 6047
6050

USA, Connecticut

Beauveria bassiana 5767*Beauveria bassiana*(?) 5816 5817
5818*Isaria farinosa* 5826 5827*Lecanicillium lecanii* 5759*Lecanicillium muscarium*(?) 11816*Myriangium* sp. 11858*Myriodontium keratinophilum*
11838

Sterile mycelium 5819

USA, Maine

Phoma sp. 9920 9921

USA, Massachusetts

Acremonium sp. 5773*Beauveria bassiana* 5170 5171 5770
5796*Fusarium* sp. 5803 5825 5823*Isaria farinosa* 5178 5774 5775 5776

5784 5788 5790 5792 5797 5799

5800 5801 5802 5830

Isaria sp. 11630 9369*Lecanicillium lecanii* 5785 5787

5794 5829

Lecanicillium muscarium 5165 5778

5779 5780 5782 5791 5798 5828

Lecanicillium muscarium(?) 5777*Lecanicillium* sp. 9175 9176 11648*Metarhizium anisopliae* sensu lato
9590*Paecilomyces* sp. 5179 5180 5164*Trichoderma lignorum* 5176*Verticillium lecanii* 5781 5783 5786

5789 5793 5820

USA, New Hampshire

Acremonium(?) sp. 9368 11650
9367*Eurotiomycetes*, genus undeter-
mined 9360 9361*Exophiala* sp. 9362*Lecanicillium muscarium* 11818*Lecanicillium* sp. 9924 9925 9926

9915 9916 9917 9918 9919 9923

9365 9922 9363

Unidentified / Hyphomycetes 9364
9366

USA, New Jersey

Lecanicillium muscarium 5795

USA, New York

Myriangium sp. 11857

USA, Vermont

Lecanicillium lecanii 11817*Lecanicillium* sp. 12089 11856Unidentified / Hyphomycetes
12086 12087 12088 12090

USA, Virginia

Beauveria bassiana 5768 5769*Isaria farinosa* 5760 5761*Lecanicillium muscarium* 5772 5822*Verticillium lecanii* 5771 5821 5824*Dreyfusia normannianiae*

Denmark

Verticillium lecanii 5854

Hemiptera: Aleyrodidae

Brazil, Bahia

Fusarium sp. 4002 4003

Mexico

Aschersonia sp. 3014

Nepal

Cladosporium sp. 3706 3711

Russian Federation

Lecanicillium muscarium(?) 9464*Simplicillium lamellicola* 9481

Unidentified / Hyphomycetes 9539

Lecanicillium fungicola 9482

Spain

Lecanicillium muscarium 3709

Sterile mycelium 3710

Trichothecium roseum 3708

Uganda

Aschersonia sp. 5216

USA, Florida

Aschersonia aleyrodidis 430 432

USA, Puerto Rico

Aschersonia sp. 5215 7070

Malaysia

Aschersonia aleyrodidis 4209*Aschersonia* sp. 4207 4210 4448
4449

Thailand

Aschersonia sp. 4208 4433 4435

4436 4437 4438 4439 4440 4441

4442 4443 4444 4445

Aglaia odoratissima

Indonesia, Jawa Barat, Java

Aschersonia aleyrodidis 2154*Aleurocanthus woglumi*

USA, Florida

Isaria farinosa 2954*Bemisia* sp.

Hong Kong

Isaria fumosorosea 6797 6798

Mexico

Isaria fumosorosea 3313 3800*Isaria javanica* 3303

Unidentified sp. 3798 3799 3801

3802 3805 3806 3807

Bemisia argentifolii

Brazil, Paraná

Isaria fumosorosea 5154 5155 5156
5157 5158 5159*Paecilomyces* sp. 5160

USA, Texas

Isaria fumosorosea 5462 5463 5464*Isaria poprawskii* 7028*Bemisia tabaci*

Brazil, São Paulo

Isaria fumosorosea 6434 6435*Lecanicillium psalliotae* 6436

Denmark

4068 4058 4059

Lecanicillium psalliotae 5582*Mixed Culture* sp. 4066*Verticillium lecanii* 4064 4065 4067
4069 4070 4071 4072

Egypt

Simplicillium sp. 6584

French Polynesia

Scopulariopsis sp. 8825 8826 8827

India

Aspergillus sp. 3698*Isaria fumosorosea* 3699 3700 3843
4490 4491 4492 4493 4494 4495

4496 4497

Paecilomyces sp. 3873 3868 3773
3779 3869

Location not specified

Beauveria bassiana 5274 5275 5276
5277 5281 5282 5285*Isaria fumosorosea* 3408 5299 5300
5301 5302 5303 5304 5305 5329

Mexico

Fusarium sp. 3672 3676 3677 3679

Nepal

Isaria fumosorosea 4482 4483 4484
4485 4486 5297*Paecilomyces* sp. 3870 3871 3872
3844

Pakistan	Japan	Canada, Ontario
<i>Isaria farinosa</i> 5081 5082 5083 5084	<i>Aschersonia aleyrodidis</i> 992	<i>Verticillium lecanii</i> 5809
<i>Isaria fumosorosea</i> 3848 3851 3878	<i>Aschersonia placenta</i> 7603	Colombia
4498 4499 4501 4502 4503 5085	Mexico	<i>Isaria fumosorosea</i> 6789
5086 5087 5088 5089 5090 5107	Unidentified sp. 3304	Commonwealth of Independent States
5113 5115 5116 5117 5118 5119	Philippines	<i>Conidiobolus thromboides</i> 58 59 248
5121 5122 5272 5298 5475 5476	<i>Aschersonia</i> sp. 2357 2358	249 250
<i>Paecilomyces</i> sp. 3874 3875 3877	<i>Aschersonia insperata</i> 2356 2396	Denmark
5091 5092 5093 5094 5095 5096	Republic of Georgia	<i>Lecanicillium lecanii</i> (?) 5581
5097 5098 5099 5100 5101 5102	<i>Aschersonia aleyrodidis</i> 9535	<i>Verticillium lecanii</i> 4073
5103 5104 5105 5106 5108 5109	<i>Singhiella simplex</i>	France
5110 5111 5112 5114 3842 3845	USA, Florida	<i>Beauveria bassiana</i> 3120
3847 3849 3850 3876	<i>Purpureocillium lilacinum</i> 9610	<i>Beauveria pseudobassiana</i> 3121
Philippines	<i>Trialeurodes vaporariorum</i>	<i>Conidiobolus obscurus</i> 434
<i>Beauveria bassiana</i> 4981 4982 4983	<i>Isaria fumosorosea</i> 8716	Unidentified sp. 3122 3125
4984 5287 5288 5289 5290 5291	Argentina	India
5292 5293 5294 5295 5296	<i>Isaria fumosorosea</i> 6916 7051 7204	<i>Lecanicillium muscarium</i> 2659
Taiwan	7205 8717 8718 8719 8720 8721	Israel
<i>Paecilomyces</i> sp. 4985 4986 4987	8723 8724 8725 8726 8727 8728	<i>Pandora neoaphidis</i> 78
4988 4989	8729 8730 8928	Unidentified sp. 4214 4215
United Kingdom	<i>Isaria javanica</i> 7477	Japan
<i>Isaria fumosorosea</i> 6562	<i>Lecanicillium lecanii</i> 7207	<i>Conidiobolus</i> sp. 999
USA, Arizona	<i>Lecanicillium longisporum</i> 7206	<i>Conidiobolus thromboides</i> 1006
<i>Beauveria bassiana</i> 5283 5284	7461	Malaysia
<i>Isaria fumosorosea</i> 5327 5328	<i>Lecanicillium muscarium</i> 7460	<i>Isaria fumosorosea</i> 4400
USA, California	Canada, Alberta	Unidentified sp. 4204
<i>Fusarium</i> sp. 3668 3669 3670 3671	<i>Beauveria bassiana</i> 6920 6921 6922	<i>Verticillium lecanii</i> 4416 4417 4418
3673 3674 3675 3678	6923 6924	4419 4420 4421 4422 4423 4453
<i>Isaria farinosa</i> 3658 3659 3661	Denmark	4454 4455 4456 4457
<i>Isaria fumosorosea</i> 3660 3662 3663	<i>Lecanicillium lecanii</i> (?) 4060	<i>Verticillium</i> sp. 4194 4195 4203
USA, Florida	<i>Verticillium lecanii</i> 4061	4398 4399
<i>Aphanocladium album</i> 3680	India	Mexico
<i>Isaria fumosorosea</i> 3076 3083 3322	<i>Purpureocillium lilacinum</i> 3846	<i>Lecanicillium lecanii</i> 6887
USA, Hawaii	Kazakhstan	<i>Lecanicillium longisporum</i> 8042
<i>Isaria fumosorosea</i> 3889	<i>Beauveria bassiana</i> 9451	Pakistan
USA, Texas	Malaysia	<i>Fusarium</i> sp. 3704 3707 3703 3705
<i>Fusarium</i> sp. 5332	<i>Isaria farinosa</i> 4412	3712
<i>Isaria farinosa</i> 3572 3574 3575 3576	<i>Isaria fumosorosea</i> 4205 4401 4404	Russian Federation
3578 3579 3580 3582 3583 3584	4406 4407 4408 4409 4410 4411	<i>Lecanicillium psalliotae</i> 9474
3585 3586 3587 3588 3589 3591	4413 4414 4415	USA, California
3592 3593 5306	<i>Mixed Culture</i> sp. 4403 4402	<i>Pandora neoaphidis</i> 6902
<i>Isaria fumosorosea</i> 3581 3590 3594	Netherlands	USA, Florida
5260 5261 5262 5263 5264 5265	<i>Aschersonia aleyrodidis</i> 2268	<i>Isaria fumosorosea</i> 3682
5266 5267 5268 5269 5270 5271	Poland	USA, Hawaii
5307 5308 5309 5310 5311 5312	<i>Lecanicillium muscarium</i> 972	<i>Cladosporium cladosporioides</i> (?)
5313 5314 5315 5316 5317 5318	Sweden	7033
5319 5320 5322 5323 5324 5325	923	<i>Lecanicillium muscarium</i> 7034
5326 5330 5331	United Kingdom	USA, Maine
<i>Isaria javanica</i> 3573 3577 3776 3778	<i>Lecanicillium muscarium</i> 5128	<i>Pandora nouri</i> 199
5259 5321	<i>Verticillium lecanii</i> 6544 6547	USA, New York
<i>Paecilomyces</i> sp. 3772 3774 3775	USA, Florida	<i>Beauveria bassiana</i> 4523 4524
3777 3780 3781 3782 3783 3784	<i>Isaria fumosorosea</i> 2658	<i>Lecanicillium longisporum</i> 7923
3785 3786 3787 3788	Hemiptera: Anthocoridae	USA, Vermont
USA, Vermont	<i>Anthocoris nemorum</i>	<i>Lecanicillium evansii</i> (?) 11797
<i>Beauveria bassiana</i> 5278 5279 5280	Denmark	Unidentified / Hyphomycetes 6503
<i>Dialeurodes ?citri</i>	<i>Beauveria bassiana</i> 8028	6157 6158 6159 6507 6508 6509
USA, Florida	Hemiptera: Aphididae	6510 6511
<i>Aschersonia aleyrodidis</i> 341 342	Argentina	<i>Verticillium lecanii</i> 5166
<i>Aschersonia goldiana</i> 343	<i>Lecanicillium longisporum</i> 7457	USSR
<i>Dialeurodes citri</i>	7458 7459 7783 7784	Unidentified sp. 3894
Brazil, Paraná	<i>Zoophthora radicans</i> 7455 7788	Venezuela
<i>Aschersonia</i> sp. 4424 4426 4430	7789	<i>Lecanicillium longisporum</i> 974
4431 4432	<i>Zoophthora</i> sp. 7454	Yugoslavia
Indonesia, Yogyakarta, Java	Australia	<i>Conidiobolus</i> sp. 1426
<i>Aschersonia</i> sp. 2351 2397 2398	<i>Pandora neoaphidis</i> 381	<i>Pandora neoaphidis</i> 1695
		Unidentified sp. 1693 1694

Yugoslavia, Belgrade	<i>Aphidula</i> sp.	<i>Brachycaudus helichrysi</i>
<i>Batkoa major</i> 1427	France	United Kingdom
<i>Erynina</i> sp. 2279	<i>Pandora neoaphidis</i> 1610 1615	<i>Verticillium lecanii</i> 6540
<i>Pandora neoaphidis</i> 1696 2016 2298	<i>Aphis</i> sp.	<i>Brevicoryne brassicae</i>
<i>Acyrtosiphon kondoi</i>	Canada, Québec	Argentina
Australia	<i>Conidiobolus obscurus</i> 124	<i>Zoophthora radicans</i> 11861
<i>Batkoa apiculata</i> 839	<i>Pandora neoaphidis</i> 128	Brazil, Paraná
<i>Conidiobolus obscurus</i> 354 824	USA, Washington	Sterile mycelium 4376
<i>Entomophthora chromaphidis</i> 1860	<i>Pandora neoaphidis</i> 3410	Denmark
1862 1863	<i>Aphis armata</i>	<i>Pandora neoaphidis</i> 5371 5372 5373
<i>Pandora kondoiensis</i> 369 825 828	France	5374
836 837	<i>Conidiobolus obscurus</i> 133 355	France
<i>Pandora nouryi</i> 362	<i>Aphis fabae</i>	<i>Pandora neoaphidis</i> 1613 1616 1617
<i>Acyrtosiphon pisum</i>	Argentina	Japan
Argentina	<i>Lecanicillium muscarium</i> 7785	<i>Batkoa apiculata</i> 1146
<i>Zoophthora radicans</i> 11859	<i>Zoophthora radicans</i> 7208	United Kingdom
Australia	Denmark	<i>Verticillium lecanii</i> 5131
<i>Conidiobolus obscurus</i> 834	<i>Pandora neoaphidis</i> 5995	USA, New York
<i>Pandora neoaphidis</i> 827 830 838	France	<i>Cladosporium</i> sp. 4795
Commonwealth of Independent States	<i>Pandora neoaphidis</i> 1606 1611 1981	Yugoslavia
<i>Conidiobolus thromboides</i> 100	1985	<i>Lecanicillium lecanii</i> 1787
Denmark	India	<i>Pandora neoaphidis</i> 1784 1785 1786
<i>Batkoa apiculata</i> 2504	<i>Fusarium</i> sp. 8277 8278 8287	1824 1825 1826 1827 2124 2128
France	Poland	Yugoslavia, Belgrade
<i>Pandora neoaphidis</i> 1598 1605 1609	<i>Conidiobolus thromboides</i> 242 244	<i>Conidiobolus</i> sp. 2130 2294
Laboratory manipulation	245 246 247 630 631 632 633 634	<i>Pandora neoaphidis</i> 2108 2109 2110
<i>Conidiobolus obscurus</i> 832 1741	635	2112 2114 2115 2116 2117 2118
<i>Pandora neoaphidis</i> 4934	<i>Pandora neoaphidis</i> 608 609 610	2119 2120 2121 2122 2280 2293
Russian Federation	611 612 613 614 636 637 638 639	<i>Zoophthora phalloides</i> 2281
<i>Conidiobolus thromboides</i> 6662	United Kingdom	Yugoslavia, Bosnia and Hercegovina
Spain	<i>Conidiobolus thromboides</i> 42 1735	<i>Pandora neoaphidis</i> 2123
<i>Pandora neoaphidis</i> 1603	USA, Washington	<i>Capitophorus</i> sp.
Switzerland	<i>Conidiobolus</i> sp. 3383	France
<i>Pandora neoaphidis</i> 7937	<i>Pandora neoaphidis</i> 3238 3241	<i>Zoophthora radicans</i> 822
Syria	Yugoslavia, Vovvodina	<i>Caviarella theobaldi</i>
Unidentified / Zygomycetes 6119	<i>Pandora neoaphidis</i> 2019 2020	United Kingdom
6160	Unidentified / Zygomycetes 2022	<i>Conidiobolus thromboides</i> 101 102
United Kingdom	<i>Aphis glycines</i>	363 1733 1734
<i>Conidiobolus coronatus</i> 1738	USA, Minnesota	<i>Dactynotus formosanus</i>
USA, Idaho	<i>Conidiobolus thromboides</i> 11664	Japan
<i>Pandora neoaphidis</i> 3240 6631	USA, New York	<i>Pandora neoaphidis</i> 1137
USA, Minnesota	<i>Conidiobolus thromboides</i> 7209	<i>Diuraphis noxia</i>
<i>Pandora neoaphidis</i> 11663	7210 7211	Canada, Alberta
USA, New York	<i>Pandora neoaphidis</i> 7212 7213 7214	<i>Lecanicillium muscarium</i> 3000
<i>Batkoa apiculata</i> 3130 3136 3140	7226 8607	France
<i>Batkoa</i> sp. 3131	<i>Aphis gossypii</i>	<i>Beauveria bassiana</i> 3867
<i>Conidiobolus obscurus</i> 3132 3133	Brazil, Rio de Janeiro	<i>Isaria fumosorosea</i> 4383
3134 3135 3137 3138 3139 3141	<i>Cladosporium herbarum</i> 4361	<i>Pandora neoaphidis</i> 3126 3174 3175
<i>Pandora neoaphidis</i> 2583 2584 2585	India	Hungary
2587 2588 2589 2591 2592 2593	<i>Fusarium</i> sp. 7233	<i>Beauveria bassiana</i> 6968 6969
2594 2754 2755 2756 2757 2758	Israel	<i>Beauveria bassiana</i> (?) 6608
2760 2761 2762 2763 2766 2767	<i>Conidiobolus thromboides</i> 83 194	<i>Verticillium lecanii</i> 6606
2768 2769 2773 2781 2782 2783	Turkey	Laboratory manipulation
2784 2837 2838 2839 2840 2842	<i>Fusarium</i> sp. 5726 5727 5728	<i>Beauveria bassiana</i> 3215 3890 3891
2844 2845 2846 2847 2848 2851	United Kingdom	3892 3905 3906 3907 3908 4099
2852 2853 2854 2855 2856 2865	<i>Verticillium lecanii</i> 6541	4100 4101 4106 4107 4108 4109
2866 2867 2868 2870 2872 2873	USA, Pennsylvania	4110 4111 4112 4113 4114 4115
<i>Zoophthora occidentalis</i> 2841 3027	<i>Beauveria bassiana</i> 5493 5494	4116 4117 4118 4119 4120 4121
3028 3029 3071 3073	<i>Aphis rumicis</i>	<i>Isaria fumosorosea</i> 3824 4459 4460
USA, Washington	Switzerland	4461
<i>Pandora neoaphidis</i> 3234 3237	<i>Lecanicillium lecanii</i> 7530	<i>Lecanicillium lecanii</i> (?) 3882 3883
Yugoslavia, Vovvodina	<i>Brachycaudus amygdalinus</i>	3884
<i>Pandora neoaphidis</i> 2017 2018	Israel	<i>Lecanicillium muscarium</i> 3861
<i>Anoecia corni</i>	<i>Zoophthora radicans</i> 75	<i>Metarhizium anisopliae</i> sensu lato
Switzerland		3822
<i>Zoophthora aphidis</i> 425		

<i>Verticillium lecanii</i> 3862 3881 3902 3903 3904 3909	<i>Macrosiphum euphorbiae</i>	<i>Verticillium</i> sp. 4074
<i>Zoophthora radicans</i> 3163	USA, Idaho	India
Lesotho	<i>Lecanicillium muscarium</i> 2858	<i>Lecanicillium longisporum</i> 1026
<i>Isaria farinosa</i> 6609	USA, Maine	Location not specified
South Africa	<i>Batkoa apiculata</i> 174	<i>Isaria fumosorosea</i> 3458
<i>Beauveria bassiana</i> 5705 6978 6979 6980	<i>Conidiobolus obscurus</i> 182	Portugal
<i>Conidiobolus thromboides</i> 4968	<i>Conidiobolus thromboides</i> 40	<i>Pandora neoaphidis</i> 1600
<i>Fusarium</i> sp. 4969	<i>Lecanicillium muscarium</i> 204	PR China
<i>Isaria farinosa</i> 6222 6983	<i>Pandora neoaphidis</i> 181	<i>Pandora neoaphidis</i> 11662
<i>Lecanicillium lecanii</i> 5706	<i>Zoophthora occidentalis</i> 207	Spain
<i>Purpureocillium lilacinum</i> 6985	Yugoslavia, Belgrade	<i>Pandora neoaphidis</i> 2085 2086
Turkey	<i>Erynia</i> sp. 2292	United Kingdom
<i>Beauveria bassiana</i> 3154 3155 3156 3157 3158 3166 3167 3168 3169	<i>Macrosiphum rosae</i>	<i>Verticillium lecanii</i> 5130 6543
<i>Beauveria pseudobassiana</i> 3153	France	USA, Arkansas
USA, Colorado	<i>Pandora neoaphidis</i> 1986 1987	<i>Pandora neoaphidis</i> 3248 3249 3250 3251
<i>Pandora neoaphidis</i> 3081 3082	<i>Metopolophium dirhodum</i>	USA, California
USA, Idaho	France	<i>Lecanicillium muscarium</i> 3324
<i>Beauveria bassiana</i> 2861 2864 2879 2882	<i>Conidiobolus obscurus</i> 97	USA, Florida
<i>Lecanicillium muscarium</i> 2862 2877 2878	South Africa	<i>Conidiobolus thromboides</i> 39
Unidentified / Zygomycetes 4970 4971	<i>Pandora neoaphidis</i> 5707 5708	USA, Maine
USA, New York	USA, Idaho	<i>Batkoa apiculata</i> 129
<i>Beauveria bassiana</i> 4462 4463 4464 4691 4692 4693 4694 4695 4696 4697 4976 4977 4978 4979	<i>Conidiobolus coronatus</i> 2812 2813 2814	<i>Conidiobolus thromboides</i> 2 41 57
<i>Isaria fumosorosea</i> 4698 4699 4700 4701 4702 4703 4704 4705 4706 4707 4708 4709 4710 4711	<i>Conidiobolus thromboides</i> 2828 2829 2849 2850	USA, New York
Unidentified / Hyphomycetes 4689 4690	<i>Pandora neoaphidis</i> 2874 2875 2876 3365 3367	<i>Lecanicillium muscarium</i> 8714
<i>Diuraphis tritici</i>	Unidentified sp. 3368	USA, Washington
USA, Montana	<i>Zoophthora radicans</i> 2811	<i>Beauveria bassiana</i> 3385
<i>Conidiobolus thromboides</i> 2914	USA, Montana	<i>Conidiobolus</i> sp. 3384
<i>Drepanosiphum aceris</i>	<i>Conidiobolus obscurus</i> 3092	<i>Lecanicillium lecanii</i> 3387
Switzerland	<i>Microlophium carnosum</i>	USA, Wisconsin
<i>Zoophthora radicans</i> 914 1130	Switzerland	<i>Conidiobolus thromboides</i> 649
<i>Eriosoma lanigerum</i>	<i>Pandora neoaphidis</i> 7938 7939	<i>Myzus rannaculinum</i>
South Africa	<i>Myzus</i> sp.	France
<i>Conidiobolus</i> sp. 6659	Spain	<i>Zoophthora phalloides</i> 352
<i>Hirsutella illustris</i> 5539	<i>Pandora neoaphidis</i> 1601 1602	<i>Nasonovia ribisnigri</i>
<i>Hyalopterus pruni</i>	<i>Myzus</i> nr. <i>persicae</i>	Argentina
France	France	<i>Pandora neoaphidis</i> 11862 11863
<i>Pandora neoaphidis</i> 1596	<i>Lecanicillium aphanocladii</i> 2324	<i>Zoophthora radicans</i> 11860
<i>Hyperomyzus lactucae</i>	<i>Lecanicillium muscarium</i> 2323 2325 2326	<i>Ovatus crataegarius</i>
Australia	<i>Myzus ascalonicus</i>	Denmark
<i>Pandora neoaphidis</i> 829 835	France	<i>Entomophthora planchoniana</i> 6251 6252
Chile	<i>Batkoa apiculata</i> 67	<i>Pemphigus</i> sp.
<i>Pandora neoaphidis</i> 833	<i>Myzus cerasi</i>	United Kingdom
<i>Lipaphis erysimi</i>	Norway	<i>Metarhizium flavoviride</i> var. <i>pem-</i> <i>phigum</i> 7491
PR China	<i>Lecanicillium lecanii</i> 6915	<i>Pemphigus betae</i>
<i>Pandora nouryi</i> 8930 8931	<i>Lecanicillium muscarium</i> 6914	USA, Arizona
<i>Macrosiphoniella sanborni</i>	<i>Myzus nicotinae</i>	<i>Cladosporium cladosporioides</i> 3463
United Kingdom	USA, Kentucky	<i>Lecanicillium muscarium</i> 3464
<i>Lecanicillium longisporum</i> 5126	<i>Pandora neoaphidis</i> 3411 3412 3459	<i>Pemphigus trehernei</i>
<i>Verticillium lecanii</i> 6542	Unidentified sp. 3239	United Kingdom
<i>Macrosiphum</i> sp.	<i>Myzus persicae</i>	<i>Metarhizium anisopliae</i> sensu lato 6570
France	Argentina	<i>Metarhizium flavoviride</i> var. <i>pem-</i> <i>phigum</i> 6569
<i>Pandora neoaphidis</i> 1607 1612	<i>Lecanicillium lecanii</i> 7462	<i>Rhopalosiphum insertum</i>
<i>Macrosiphum akebiae</i>	<i>Lecanicillium muscarium</i> 7782	France
Japan	Brazil, Paraná	<i>Conidiobolus thromboides</i> 73
<i>Pandora neoaphidis</i> 1134	<i>Aspergillus clavatus</i> 4359	<i>Rhopalosiphum maidis</i>
	Commonwealth of Independent States	USA, Montana
	<i>Conidiobolus thromboides</i> 63 99	<i>Batkoa apiculata</i> 3088 3091
	Denmark	<i>Conidiobolus obscurus</i> 3089 3090
	4078	<i>Rhopalosiphum nymphaeae</i>
	<i>Lecanicillium fusisporum</i> 5583	USA, Florida
	<i>Verticillium lecanii</i> 4075 4076 4077 4079	<i>Lecanicillium longisporum</i> 321

<i>Rhopalosiphum padi</i>	Dominican Republic	Brazil, Bahia
Denmark	<i>Verticillium lecanii</i> 6144 6145	<i>Metarhizium anisopliae</i> sensu stricto 1900
<i>Batkoa apiculata</i> 5994	<i>Uroleucon</i> sp.	Brazil, Distrito Federal
<i>Conidiobolus obscurus</i> 5992	Canada, Québec	<i>Beauveria bassiana</i> 3019
<i>Conidiobolus osmodes(?)</i> 5993	<i>Conidiobolus obscurus</i> 121 122	<i>Purpureocillium lilacinum</i> 3481
Hungary	<i>Conidiobolus thromboides</i> 120	Brazil, Espírito Santo
<i>Beauveria bassiana</i> 6970	<i>Uroleucon ambrosiae</i>	<i>Metarhizium anisopliae</i> sensu lato 925
Japan	Mexico	<i>Metarhizium anisopliae</i> sensu stricto 1044
<i>Conidiobolus obscurus</i> 1131	<i>Lecanicillium lecanii</i> 6886	Brazil, Goiás
South Africa	<i>Uroleucon formosanus</i>	<i>Beauveria bassiana</i> 806
<i>Cladosporium</i> sp. 11866 11865 3374	Japan	<i>Metarhizium anisopliae</i> sensu lato 729 759 782 955 1970
USA, Colorado	<i>Pandora neoaphidis</i> 993	<i>Purpureocillium lilacinum</i> 2078
<i>Batkoa apiculata</i> 3080	Hemiptera: Cercopidae	Brazil, Mato Grosso
USA, Idaho	Argentina	<i>Conidiobolus</i> sp. 2148
<i>Fusarium</i> sp. 2337	<i>Metarhizium anisopliae</i> sensu lato 7474 7475 7476 8376 8527	<i>Deois incompleta</i>
<i>Schizaphis graminum</i>	Brazil	Brazil, Pará
Canada, Alberta	<i>Metarhizium anisopliae</i> sensu lato 1899 1902 1911 3147 8498	<i>Metarhizium anisopliae</i> sensu lato 1449
<i>Conidiobolus thromboides</i> 2955	Brazil, Bahia	<i>Kanaima fluvialis</i>
USA, Idaho	<i>Metarhizium anisopliae</i> sensu lato 1282 1299 1379 1382	Argentina
<i>Beauveria bassiana</i> 2336 2860 2880	<i>Metarhizium anisopliae</i> sensu stricto 1045	<i>Metarhizium anisopliae</i> sensu lato 8377
2881 2883	Brazil, Pará	<i>Mahanarva andigena</i>
<i>Pandora neoaphidis</i> 3366	<i>Metarhizium anisopliae</i> sensu lato 1890 1891 1895	Colombia
USA, Michigan	Ghana	<i>Fusarium</i> sp. 6460 6461 6464
<i>Conidiobolus</i> sp. 1967	<i>Pseudogibellula formicarum</i> 2913	<i>Mahanarva fimbriolata</i>
<i>Sitobion</i> sp.	Mexico	Brazil, São Paulo
<i>Pandora neoaphidis</i> 1597	<i>Metarhizium anisopliae</i> sensu lato 3307	<i>Metarhizium anisopliae</i> sensu stricto 7979 7981
France	<i>Metarhizium anisopliae</i> sensu stricto 1912	<i>Mahanarva posticata</i>
<i>Pandora neoaphidis</i> 1604	PR China	Brazil, Bahia
<i>Sitobion avenae</i>	<i>Cordyceps</i> sp. 6349	<i>Metarhizium anisopliae</i> sensu lato 1896 1898
Denmark	Switzerland	<i>Metarhizium anisopliae</i> sensu stricto 1894
<i>Pandora neoaphidis</i> 5403 6166	<i>Conidiobolus</i> sp. 391	Brazil, Pernambuco
USA, Idaho	USA, New York	<i>Metarhizium anisopliae</i> sensu stricto 2627 7980
<i>Fusarium</i> sp. 2333	<i>Zoophthora radicans</i> 800	<i>Mahanarva</i> sp.
<i>Lecanicillium muscarium</i> 2334	<i>Aeneolamia postica</i>	Colombia
<i>Lecanicillium psalliotae</i> 2332	Costa Rica	<i>Metarhizium anisopliae</i> sensu lato 6321 6322
<i>Stachybotrys</i> sp. 2863	<i>Fusarium</i> sp. 3345	<i>Prosapia nr. bicincta</i>
<i>Verticillium lecanii</i> 2859	<i>Aeneolamia varia</i>	Costa Rica
<i>Therioaphis maculata</i>	Colombia	<i>Fusarium</i> sp. 4713 4714 4715
Australia	<i>Aspergillus</i> sp. 6369 6372	<i>Prosapia plagiata</i>
<i>Zoophthora radicans</i> 359 370 823	<i>Metarhizium anisopliae</i> sensu lato 6319 6342 6343 6345 6346	Costa Rica
Israel	<i>Metarhizium anisopliae</i> sensu stricto 798 6347	Sterile mycelium 4712
<i>Zoophthora radicans</i> 103 104 105	<i>Trichoderma viride(?)</i> 6344	<i>Prosapia simulans</i>
106 107 108 109 110 111 112 114	Unidentified sp. 6370	Costa Rica
139	Trinidad and Tobago	Unidentified sp. 3536
Mexico	<i>Metarhizium anisopliae</i> sensu stricto 3621	<i>Zulia carbonaria</i>
<i>Zoophthora radicans</i> 379	<i>Deois</i> sp.	Colombia
USA	Brazil, Mato Grosso	<i>Beauveria bassiana</i> 6459
<i>Pandora nouri</i> 366	<i>Conidiobolus</i> sp. 2147	<i>Curvularia</i> sp. 6367 6465
USA, California	Brazil, Paraná	<i>Metarhizium anisopliae</i> sensu lato 6457 6468
<i>Conidiobolus obscurus</i> 74	<i>Metarhizium anisopliae</i> sensu lato 2521	<i>Paecilomyces crustaceus(?)</i> 6462
<i>Conidiobolus thromboides</i> 15 29 115	<i>Deois flavopicta</i>	6467
208	Brazil	<i>Paecilomyces lilacinus(?)</i> 6458
USA, Illinois	<i>Metarhizium anisopliae</i> sensu stricto 2517	Unidentified sp. 6463 6466
<i>Erynia</i> sp. 1666		
USA, New York		
<i>Zoophthora radicans</i> 237 238 239		
<i>Therioaphis trifolii f. maculata</i>		
Israel		
<i>Zoophthora radicans</i> 3737		
<i>Toxoptera aurantii</i>		
Colombia		
<i>Fusarium</i> sp. 6790		
<i>Toxoptera citricida</i>		
Argentina		
<i>Lecanicillium longisporum</i> 2460		
<i>Lecanicillium</i> sp. 2009		

<i>Zulia colombiana</i>	<i>Cicadella</i> sp.	Brazil, Santa Catarina
Colombia	Australia	<i>Zoophthora radicans</i> 1228 1229
<i>Fusarium oxysporum</i> (?) 6355	<i>Entomophaga australiensis</i> 328	1231 1232 1233 1234 1236 1237
<i>Fusarium</i> sp. 6348 6351 6352 6353	<i>Cofana spectra</i>	Brazil, São Paulo
6354 6358	Indonesia, Sulawesi Utara, Celebes	<i>Zoophthora radicans</i> 2994 2995
<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium album</i> 2082	2996 3002 3003 3004 3005 3006
6356	<i>Empoasca</i> sp.	3007 3008 3009 3010 3011 3012
<i>Penicillium</i> sp. 6357 6359	Israel	3013
<i>Zulia entreriana</i>	<i>Zoophthora radicans</i> 3623	<i>Empoasca vitis</i>
Brazil, Mato Grosso	Yugoslavia	Laboratory manipulation
<i>Beauveria bassiana</i> 477	<i>Zoophthora radicans</i> 2282 2283	<i>Entomophaga praxibuli</i> 3058
<i>Zulia pubescens</i>	2284 2285 2288 2289	<i>Zoophthora radicans</i> 3151 3172
Colombia	Yugoslavia, Belgrade	Location not specified
<i>Fusarium</i> sp. 6320 6375 6576	<i>Zoophthora radicans</i> 2241 2242	<i>Zoophthora radicans</i> 3162
<i>Metarhizium anisopliae</i> sensu lato	2243 2244 2245 2246 2286 2287	Yugoslavia
6323	<i>Empoasca fabae</i>	<i>Zoophthora radicans</i> 2703 2709
<i>Metarhizium anisopliae</i> sensu	Laboratory manipulation	2712 3114 3116
stricto 6317 6318	<i>Zoophthora radicans</i> 3355	Yugoslavia, Belgrade
<i>Purpureocillium lilacinum</i> 6340	Location not specified	<i>Zoophthora radicans</i> 2696 2700
<i>Zulia vilior costarricensis</i>	<i>Zoophthora radicans</i> 2400	2701 2702 2706 2708 2713 3119
Costa Rica	USA, Illinois	3149 3150 3159 3160 3164 3165
<i>Mucor</i> sp. 3535	<i>Zoophthora radicans</i> 1938 2550	<i>Hauptida distinguenda</i>
	2716 2717 2718 2719 2720 3283	France
	3284	<i>Zoophthora radicans</i> 2256 2257
Hemiptera: Cicadellidae	USA, Michigan	2258 2259 2260 2261 2262
<i>Batkoa apiculata</i> 5552	<i>Zoophthora radicans</i> 2977 2978	<i>Idiocerus nitidulus</i>
Brazil, Goiás	2979 2980	Malaysia
<i>Entomophaga australiensis</i> 743	USA, New York	<i>Hirsutella versicolor</i> 4512
<i>Pandora delphacis</i> 1238 1936	<i>Batkoa major</i> 2936 3102 3103	<i>Idioscopus clypealis</i>
<i>Zoophthora radicans</i> 1495 1587	<i>Conidiobolus coronatus</i> 3099 3109	Philippines
1591 2196	<i>Conidiobolus thromboides</i> 3129	<i>Hirsutella verticillioides</i> 2599
Brazil, Mato Grosso	<i>Pandora delphacis</i> 3072 3093 3094	<i>Molopopterus theae</i>
<i>Beauveria bassiana</i> 945	3095 3096 3106 3107	South Africa
Brazil, Paraná	Unidentified sp. 3128	<i>Beauveria bassiana</i> 6982
<i>Zoophthora radicans</i> 1239	<i>Zoophthora radicans</i> 3104 3105	<i>Zoophthora radicans</i> 6605
Brazil, São Paulo	3376 3377 3390 4520	<i>Nephotettix bipunctata cincticeps</i>
<i>Metarhizium flavoviride</i> 'Type E'	USA, Wisconsin	Indonesia, Sulawesi Selatan, Celebes
2948	<i>Zoophthora radicans</i> 1018 1019	<i>Conidiobolus coronatus</i> 597
India	1020 1021 1261 1262	<i>Conidiobolus</i> sp. 605 606
Sterile mycelium 3702	<i>Empoasca fabae</i>	Japan
Japan	Laboratory manipulation	<i>Beauveria bassiana</i> 1553 1554 1555
<i>Zoophthora radicans</i> 1263	<i>Zoophthora radicans</i> 3697	1556
Philippines	<i>Empoasca kraemeri</i>	Malaysia
<i>Conidiobolus coronatus</i> 419 421 422	Brazil	<i>Conidiobolus coronatus</i> 520
<i>Hirsutella guyana</i> 2352 2387	<i>Trichoderma</i> sp. 807	Philippines
<i>Metarhizium album</i> 2081	<i>Zoophthora radicans</i> 3026	<i>Entomophaga</i> sp. 1126
<i>Metarhizium flavoviride</i> var. <i>minus</i>	Brazil, Ceará	PR China
2339	<i>Hirsutella guyana</i> 2993	<i>Beauveria amorphia</i> 656
<i>Metarhizium</i> sp. 2353	<i>Hirsutella</i> sp. 2644 2645 2646 2647	<i>Beauveria bassiana</i> 708
PR China	2648 2649 2650 2651 2652 2653	<i>Beauveria brongniartii</i> 678
<i>Cordyceps</i> sp. 6281	2654 2655 2656 2657 2992	<i>Trichothecium</i> sp. 653
Russian Federation	Brazil, Goiás	<i>Nephotettix cincticeps</i>
<i>Beauveria bassiana</i> 7590 9443	<i>Entomophaga</i> sp. 1230 1625	Japan
<i>Purpureocillium lilacinum</i> 9523	<i>Zoophthora radicans</i> 789 790 1492	<i>Beauveria bassiana</i> 1098
USA, Hawaii	1493 1494 1496 1497 1498 1499	Philippines
<i>Beauveria bassiana</i> 8710 8711	1500 1501 1502 1503 1504 1541	<i>Metarhizium pingshaense</i> 2043
<i>Cladosporium</i> sp. 7039	1542 1543 1544 1581 1582 1583	<i>Pandora delphacis</i> 458 459 460 461
<i>Lecanicillium muscarium</i> 7037	1584 1585 1586 1588 1589 1590	478
<i>Sporothrix</i> sp. 7038	1593 1594 1595 1928 1929 1930	<i>Nephotettix virescens</i>
USA, Illinois	1931 1932 1933 1934 1935 1937	Indonesia, Jawa Barat, Java
<i>Zoophthora radicans</i> 2549 2551	Brazil, Rio Grande do Norte	<i>Metarhizium pingshaense</i> 2106
2552	<i>Entomophaga australiensis</i> 791	Indonesia, Sulawesi Selatan, Celebes
<i>Balacha melanocephala</i>	<i>Hirsutella guyana</i> 878 879 881 882	<i>Metarhizium anisopliae</i> sensu
Argentina	883	stricto 2153
<i>Beauveria bassiana</i> 7464 7465 7467	Brazil, Rio Grande do Sul	Philippines
7469 8370 8459 8460 8528 8529	<i>Zoophthora radicans</i> 1227	<i>Hirsutella strigosa</i> 2197

Fungus by Host and Location

Hemiptera: Cicadellidae

Hemiptera: Delphacidae

Metarhizium album 1840 1941 1942
1943 2176 2178
Metarhizium flavoviride var. *minus*
1945
Oncometopia tucumana
Argentina
Clonostachys rosea 7200
Pawiloma victima
Argentina
Beauveria bassiana 8371
Recilia dorsalis
Philippines
Metarhizium album 2179
Metarhizium anisopliae sensu lato
543
Metarhizium flavoviride var. *minus*
1546 1547
Unidentified / Hyphomycetes 2177
PR China
Paecilomyces sp. 680
Pandora delphacis 659 660
Sonesimia grossa
Argentina
Clonostachys rosea 7472
Typhlocyba sp.
Yugoslavia
Zoophthora radicans 3115
Yugoslavia, Belgrade
Zoophthora radicans 3170 3171

Hemiptera: Cicadidae

Argentina
Metarhizium robertsii 3925
Brazil
Metarhizium anisopliae sensu lato
4095
Japan
Beauveria bassiana 7256 7258
Mexico
Beauveria bassiana 2544
PR China
Beauveria bassiana 11712
Purpureocillium lilacinum 6247
Russian Federation
Metarhizium sp. 7645
Cicadetta puer
Australia
Ophiocordyceps heteropoda 1880
Entomophaga australiensis 331 365
Cryptotympana facialis
Republic of China
Nomuraea viridulus 6927
Magiciada septendecim
USA, Maryland
Beauveria brongniartii 7376
USA, New York
Massospora cicadina 374
Mogannia hebes
Republic of China
Isaria sinclairii 6925
Pomponia linearis
Republic of China
Nomuraea cylindrospora 6926

Hemiptera: Cixiidae

Myndus crudus
USA, Florida
Hirsutella citriformis 1035 1446
Oliarus dimidiatus
Argentina
Beauveria bassiana 7776
Conidiobolus sp. 7786 8378

Hemiptera: Coccidae

Brazil, São Paulo
Aschersonia sp. 10276
Ecuador
Verticillium lecanii 2916
Mexico
Lecanicillium lecanii 6888
Republic of Korea
Beauveria bassiana 6723
Sri Lanka
Fusarium sp. 1828
Ukraine
Isaria farinosa 9513
USA, Hawaii
Acremonium(?) sp. 7036 7035
Ceroplastes sp.
Colombia
Lecanicillium lecanii 6791
USA, Mississippi
Lecanicillium muscarium 7375
Coccus hesperidum
Iran
Lecanicillium lecanii(?) 6289
Coccus viridis
Colombia
Lecanicillium muscarium 6792
India
Fusarium sp. 2232
Indonesia, Java
Lecanicillium lecanii 2149 2150
Indonesia, Jawa Barat, Java
Verticillium lecanii 5153
Sri Lanka
Lecanicillium muscarium 1774
Neolecanium cornuparvum
USA, Vermont
Colletotrichum sp. 10308
Parthenolecanium sp.
Turkey
Lecanicillium muscarium 11736
USA, Rhode Island
Colletotrichum sp. 12083 12072
12073 12074 12075 12076 12077
12078 12079 12084 12052 12053
12054 12055 12056 12057 12058
12059 12060 12061 12062 12063
12064 12065 12066 12067 12068
12069 12070 12071 12080 12081
12082
Unidentified / Hyphomycetes
12085
Parthenolecanium corni
Czechoslovakia
Lecanicillium muscarium 8041
Russian Federation
Lecanicillium sp. 7622
Simplicillium lanosoniveum 7623

Unidentified / Hyphomycetes 9538
USA, Vermont
Hirsutella lecanicola 8888
Phytokermes hemichryphus
Denmark
Verticillium lecanii 4025
Pulvinaria aurantii
Iran
Verticillium lecanii 6287 6291
Pulvinaria elongata
India
Fusarium subglutinans 2145
Pulvinaria floccifera
Turkey
Lecanicillium muscarium 980
Pulvinaria iceryi
Mauritius
Acremonium sp. 11667
Saissetia oleae
Israel
Lecanicillium muscarium 1029

Hemiptera: Coreidae

Leptoglossus fulvicornis
USA, Florida
Beauveria bassiana 3086

Hemiptera: Cydnidae

?*Cirtonemus* sp.
Brazil, Goiás
Metarhizium robertsii 1952
Scaptoceres castanea
Brazil, Goiás
Metarhizium pingshaense 1448

Hemiptera: Delphacidae

Indonesia, Jawa Barat, Java
Hirsutella citriformis 2428
USA, Hawaii
Beauveria kipukae 7032
Sporothrix sp. 7042
Delphacodes haywardii
Argentina
Conidiobolus coronatus 7203
Delphacodes kuscheli
Argentina
Aphanocladium sp. 8457 8458
Lecanicillium muscarium 7781
Delphacodes striatella
Japan
Zoophthora radicans 1050
Nilaparvata lugens
Australia
Conidiobolus coronatus 349
India
Conidiobolus nr. *coronatus* 1742
1743
Conidiobolus sp. 211
Fusarium moniliforme var. *intermedium* 3223
Metarhizium anisopliae sensu lato
1726 1727 1728 1744 1745 1823
Metarhizium pingshaense 1724
1725 1729
Pandora delphacis 1730 1731
Indonesia, Jawa Barat, Java
2146

Hemiptera: Delphacidae**Hemiptera: Lygaeidae****Fungus by Host and Location**

Beauveria bassiana 2427
Conidiobolus coronatus 1876
Conidiobolus nr. *coronatus* 598
Hirsutella citriformis 1917 1918
 1919 2099 2100 2101 2102 2103
 2420 2422 2423 2426
Metarhizium anisopliae sensu
 stricto 2080 2421
Pandora delphacis 2091
 Indonesia, Jawa Tengah, Java
Hirsutella citriformis 2346
 Indonesia, Lampung, Sumatra
Hirsutella citriformis 532
 Indonesia, Lombok Island
Pandora delphacis 575 579
 Indonesia, Sulawesi Selatan, Celebes
Conidiobolus coronatus 563 565
Conidiobolus sp. 564
Metarhizium pingshaense 576
 Indonesia, Sumatera Selatan, Sumatra
Hirsutella sp. 568
 Indonesia, Sumatera Utara, Sumatra
Entomophaga australiensis 581
Pandora delphacis 580
 Indonesia, Yogyakarta, Java
Conidiobolus nr. *coronatus* 599 600
Conidiobolus sp. 595 596
Hirsutella citriformis 591
 Japan
Conidiobolus coronatus 997
Pandora delphacis 134 1124 1132
 1133 1264 1268
Zoophthora radicans 1125 1136
 Malaysia
Conidiobolus coronatus 512 514 523
 524
Conidiobolus sp. 517 522
 Philippines
Conidiobolus coronatus 405 406 418
 511
Hirsutella citriformis 490 684 1036
 1062 1063 1064 1243 1244 1245
 1246 1249 1251 1252 1253 1254
 1255 1256 1257 1258 1259 1436
 1549 1550
Hirsutella sp. 1096
Hirsutella strigosa 2044
Isaria fumosorosea 2198
Metarhizium anisopliae sensu lato
 456 457 485 486 487 488 489 1284
 1285 1286 1290 1300 1304
Metarhizium brunneum 455
Metarhizium flavoviride var. *minus*
 1099 1271 1272 1273 1274 1275
 1276 1277 1279 1283 1287 1288
 1289 1291 1292 1293 1294 1295
 1296 1297 1301 1302 1303 1305
 2037
 PR China
Beauveria bassiana 654 679 709 714
 717 719
Conidiobolus coronatus 655
Conidiobolus lachnodes 700
Fusarium sp. 687

Pandora delphacis 657 664 665 666
 667 668 669 670 672 673 674 676
 682 686 698 713 716
Zoophthora radicans 685
 Republic of Korea
Fusarium semitectum 2053
Hirsutella repens 2348 2359 2394
Metarhizium anisopliae sensu lato
 2038 2039
Torrubiella homopterorum 2045
 Solomon Islands
Calcarisporium ovalisporum 1907
Entomophaga sp. 1881
Hirsutella citriformis 1913
Metarhizium flavoviride var. *minus*
 1763 1764 1765 1766 1767 1768
 1769 1770 1771 1772 1773
Sporothrix sp. 1908
 Sri Lanka
Hirsutella citriformis 1837
 Thailand
Conidiobolus coronatus 525 528
Tilletiopsis sp. 527 572 573
 Vietnam
Beauveria bassiana 7592
Metarhizium anisopliae sensu lato
 7644
Sogatella furcifera
 India
Aspergillus sp. 8519 8282 8283 8285
 Indonesia, Jawa Barat, Java
Pandora delphacis 2092 2093 2095
 2096 2409
 Indonesia, Sulawesi Selatan, Celebes
Conidiobolus nr. *coronatus* 602
Conidiobolus sp. 604
Nomuraea rileyi 558
Pandora delphacis 593 603
 PR China
Pandora delphacis 6538 6539
Sogatodes pusanus
 Indonesia, Jawa Barat, Java
Pandora delphacis 2094

Hemiptera: Derbidae

Lydda sp.
 Tanzania
Hirsutella sp. 4515

Hemiptera: Diaspididae

Aonidiella aurantii
 Mexico
Aschersonia turbinata 11868 11869
Fiorinia externa
 Unidentified / Hyphomycetes 7067
 USA, Connecticut
Lecanicillium lecanii(?) 11815
Metarhiziosis microspora 8676
 11843
Myriangium sp. 11852 11853
Myriodontium keratinophilum
 11837
 USA, Massachusetts
Metarhiziosis microspora 8984
 8985
 USA, New Hampshire
Metarhiziosis microspora 11851

USA, New York
Colletotrichum fiorinae 10219
 10220 10221 10222 10223
Metarhiziosis microspora 8986
 8987 8988 11842
Myriangium sp. 11854 11855
Myriangium duriae 8924 8925
Lepidosaphes sp.
 Indonesia, Jawa Barat, Java
Fusarium coccophilum 2098
Lopholeucaspis japonica
 Republic of Georgia
Fusarium sp. 6225
Melanaspis glomerata
 India
Fusarium moniliforme 2074
Melanaspis obscura
 USA, District of Columbia
Fusarium coccophilum 821
Nuculaspsis tsugae
 Japan
Hirsutella sp. 1668
Unaspis citri
 USA, Florida
Trichoderma sp. 3084

Hemiptera: Eriococcidae

Cryptococcus fagisuga
 United Kingdom
Lecanicillium muscarium 3740
Verticillium lecanii 3741 3742 3743

Hemiptera: Flatidae ?

Australia
Pseudogibellula formicarum 5765
 5766

Hemiptera: Jassidae

Location not specified
Sporodiniella umbellata 5222

Hemiptera: Lecaniidae

Lecanium viridis
 Sri Lanka
Lecanicillium lecanii 555

Hemiptera: Lophopidae

Pyrilla perpusilla
 India
Fusarium subglutinans 2143 2144

Hemiptera: Lygaeidae

Kazakhstan
Isaria farinosa 6496
 USA, Hawaii
Beauveria bassiana 8706
Blissus leucopterus
 USA, Kansas
Beauveria bassiana 792 2430
Nysius vinitor
 Australia
Beauveria bassiana 300
Scolopostethus affinis
 Denmark
Beauveria bassiana 8027

Fungus by Host and Location

Hemiptera: Margarodidae

Hemiptera: Pentatomidae

Hemiptera: Margarodidae

Icerya aegyptica
Egypt
Lecanicillium psalliotae 6581 6582
Icerya purchasi
Egypt
Gliocladium(?) sp. 6579 6583 6580
Sri Lanka
Lecanicillium muscarium 1033

Hemiptera: Membracidae

Brazil, Bahia
Beauveria bassiana 3999
Unidentified sp. 4000
Brazil, Pará
Hirsutella versicolor 1034
Brazil, Rondônia
Hirsutella versicolor 1037
Mexico
Beauveria bassiana 3312
Papua New Guinea
Beauveria sp. 2164
Ceresa bubalus
India
Fusarium sp. 8279
Gargara sp.
Canada, Québec
Conidiobolus sp. 5405 5406
USA, Vermont
Conidiobolus sp. 5404
Kronides sp.
Argentina
Beauveria bassiana 7468
Spissistilus festinus
USA, Alabama
Pandora delphacis 2028
USA, Arkansas
Pandora delphacis 3484
USA, California
Beauveria bassiana 8318

Hemiptera: Mesoveliidae

Mesovelia mulsanti
USA, Florida
Beauveria bassiana 320

Hemiptera: Miridae

Costa Rica
Beauveria bassiana 3449 3454 3456
Indonesia, Jawa Barat, Java
2132
South Africa
Isaria farinosa 6607
USA, New York
Pandora delphacis 3062
Adelphocoris sp.
Austria
Beauveria bassiana 1533 1534 1535
1536 1537 1538 1539 1540 1635
1636 1637 1638 1640 1643
Fusarium sp. 1641
Trichothecium roseum 1639 1642
France
Beauveria bassiana 1516 1517 1523
1524 1650 1789 1790 1791 1792
1793 1794 1795 1796 1797 1798
1799 1800 1801

Italy
Beauveria bassiana 1525 1526 1527
1528 1529 1531
Beauveria sp. 1195 1196 1197 1198
1199 1200 1201 1202 1203 1204
1205 1206 1207 1208 1209 1210
1211 1213 1214 1215 1216 1218
1219 1220 1221 1222 1224 1307
Isaria fumosorosea 1530 1532
Trichothecium roseum 1212 1226
1308
Trichothecium sp. 1217 1223
Cyrtorhinus lividipennis
Philippines
Hirsutella sp. 2208 2209
Dicyphus pallidus
Switzerland
Zoophthora radicans 389
Leptopterna dolabrata
Denmark
Beauveria bassiana 8036
Liocoris tripustulatus
Denmark
Beauveria bassiana 8025
Lygus sp.
France
Beauveria bassiana 1394 1395 1396
1397 1404 1405 1406 1407 1408
1409 1410 1411 1412 1413 1414
1520 1521 1648 1649 2318 2319
2320 2321 2322 2458 2462
Greece
Beauveria bassiana 1802 1803 1812
1822
Spain
Beauveria bassiana 886 1804 1805
1806 1807 1808 1809 1810 1813
1814
USA, New York
Pandora neoaphidis 1570
Lygus ?lineolaris
France
Beauveria bassiana 1317 1318 1319
1320 1321 1322 1323 1324 1325
Lygus hesperus
USA, California
Beauveria bassiana 6660 6661
Lygus lineolaris
USA, Arkansas
Beauveria bassiana 3769
Pandora heteropterae 9266
USA, Mississippi
Beauveria bassiana 8317 8889
USA, New York
Beauveria bassiana 5808
USA, Vermont
Unidentified / Hyphomycetes
6504
Lygus pratensis
France
Beauveria bassiana 2461
Notostira elongata
Denmark
Beauveria bassiana 8029 8030
Switzerland
Furia virescens 394

Zoophthora anglica 916 926
Stenodema laevigatum
Denmark
Beauveria bassiana 8026

Hemiptera: Nabidae

Nabis sp.
Austria
Beauveria bassiana 1988

Hemiptera: Ortheziidae

Orthezia insignis
Brazil
Unidentified / Hyphomycetes
7383
Orthezia praelonga
Brazil, Espírito Santo
Penicillium sp. 2643
Brazil, Rio de Janeiro
Colletotrichum gloeosporioides
4360
Orthezia urticae
Russian Federation
Lecanicillium sp. 9466

Hemiptera: Pentatomidae

Austria
Beauveria bassiana 1973 1974
Brazil, Amazonas
Metarhizium anisopliae sensu
stricto 755
Brazil, Goiás
Beauveria bassiana 737
Brazil, Mato Grosso
Beauveria bassiana 944
Costa Rica
Isaria fumosorosea 3429
France
Beauveria bassiana 1984
Malaysia
Purpureocillium lilacinum 531
Republic of Korea
Beauveria bassiana 6722
Cordyceps sp. 4846
Polycephalomyces ramosus 4858
USA, Puerto Rico
Paecilomyces sp. 7075
USA, Vermont
Isaria farinosa 11833
Acanthosoma labiduroides
Nepal
Beauveria bassiana 7273
Republic of Korea
Beauveria bassiana 7240 7246
Unidentified / Hyphomycetes
5698
Aelia sp.
Kazakhstan
Isaria farinosa 6493 6497
Verticillium sp. 6500
Turkey
Cylindrocarpus sp. 5758
Uzbekistan
Beauveria bassiana 6093
Isaria farinosa 6097 6098

Dolycorus sp.

Turkey

Aspergillus niger 6407*Aspergillus* sp. 6405 6406 6408*Beauveria bassiana* 6404 6426*Fusarium* sp. 6411*Edessa mediatubunda*

West Indies

Purpureocillium lilacinum 10225*Euschistus heros*

Brazil, Goiás

Beauveria bassiana 1478*Halyomorpha halys*

USA, New Jersey

Fusarium sp. 10311 10312 10313

10388 10389 10390 10391 11655

10309 10310

Unidentified / Hyphomycetes

10386 10387 10392

Nezara viridula

Argentina

Beauveria bassiana 2011 2457 2516

Brazil

Beauveria bassiana 4092 4093

Brazil, Paraná

Beauveria bassiana 1054*Metarhizium anisopliae* sensu lato

1055

Brazil, Santa Catarina

Beauveria bassiana 1474

Brazil, São Paulo

Paecilomyces sp. 3101

India

Aspergillus sp. 8280*Oebalus poecilus*

Brazil, Goiás

Beauveria bassiana 2191*Palomena prasina*

Turkey

Lecanicillium muscarium 11730

11731 11733 11734

Simplicillium lamellicola 11727

11728 11729 11732 11735 11737

Simplicillium lamellicola(?) 11738*Podisus* sp.

Brazil, Paraná

Beauveria bassiana 1457 2519*Scotinophara coarctata*

Malaysia

Purpureocillium lilacinum 763

Philippines

Metarhizium anisopliae sensu lato

1432 1548 2341 2342 2343

Metarhizium pingshaense 1545

Sterile mycelium 1435

Tibraca limbativentres

Brazil

Beauveria bassiana 4091

Brazil, Goiás

Beauveria bassiana 933*Metarhizium anisopliae* sensu lato

1882 2212 2213 2214

Metarhizium anisopliae sensu

stricto 1883

Purpureocillium lilacinum 2215**Hemiptera: Pseudococcidae***Paracoccus marginatus*

India

Lecanicillium aphanocladii 9611*Metarhizium anisopliae* sensu lato

9612 9613

Phenacoccus solani

USA, Florida

Isaria fumosorosea 2247*Phenacoccus solenopsis*

India

Aspergillus clavatus 9375*Aspergillus flavus* 9376*Cladosporium cladosporioides* 9614*Fusarium* sp. 9377*Rastrococcus invadens*

Togo

Hirsutella cryptosclerotium 4517*Rhizococcus* sp.

USA, Florida

Beauveria bassiana 2236*Lecanicillium psalliotae* 2234 2235**Hemiptera: Psyllidae**

Russian Federation

Engyodontium(?) sp. 9476*Isaria farinosa*(?) 7219*Isaria* sp. 9517*Diaphorina citri*

Mexico

Hirsutella sp. 9605 9606 11755

11757 11758 11759 11760 11761

10230

USA, Florida

Hirsutella citriformis 8315 9180

11665

Paecilomyces sp. 8316*Heteropsylla cubana*

Papua New Guinea

Fusarium lateritium 2304*Fusarium* sp. 2303

Philippines

Hirsutella citriformis 2347 2598*Heteropsylla incisa*

Papua New Guinea

Fusarium semitectum 2299 2300*Fusarium subglutinans* 2301

Philippines

Isaria fumosorosea 2175*Psyllida etrioza*

Canada, Québec

Zoophthora radicans 126*Trioza urticae*

Switzerland

Zoophthora radicans 1719**Hemiptera: Reduviidae***Triatoma infestans*

Argentina

Beauveria bassiana 7147*Fusarium* sp. 7473*Purpureocillium lilacinum* 7478**Hemiptera: Rhopalidae**

Kazakhstan

Verticillium sp. 6498*Leptocoris* sp.

Indonesia, Lombok Island

Beauveria bassiana 560

Indonesia, Yogyakarta, Java

Beauveria bassiana 566*Leptocoris oratorius*

Philippines

Beauveria bassiana 1269 1270**Hemiptera: Scutelleridae***Eurygaster* sp.

Iran

Beauveria bassiana 10353 10354

10355 10356 10357 10358 10359

10360 10361 10362 11620

Isaria sp. 10363 10364 10365 10366

10367 10368 10369 10370 10371

10372 10373 10374 10375 10376

10377 10379 10380 10381 10382

10383 10384 10385 11631 11632

11633 11634 11635 11636

Kazakhstan

Beauveria bassiana 11618 11619*Isaria farinosa* 6481 6490 6495*Purpureocillium lilacinum* 6494

6502

Verticillium lecanii 6479*Verticillium* sp. 6485

Kyrgyz Republic

Beauveria bassiana 8932 10352*Verticillium* sp. 6480

Republic of Kazakhstan

Beauveria bassiana 10351*Isaria* sp. 10378

Russian Federation

Beauveria bassiana 6008 6009 6011

6013 6014 6016 6019 6039 6040

6041 6042

Beauveria brongniartii 6023*Beauveria pseudobassiana* 6015

6022 6043

Isaria farinosa 6012 6017 6020 6044*Lecanicillium lecanii* 6010*Purpureocillium lilacinum* 6018

6021 6024 6026

Verticillium lecanii 6025

Syria

Aphanocladium album 5756*Beauveria bassiana* 5674 6065 6066

6067 6069 6070 6079 6086 6087

6088 6089 6090 6091 6149

Fusarium sp. 5682 5755 5757*Lecanicillium muscarium* 6118*Lecanicillium psalliotae* 5681 5683

5763 5835 6071

Purpureocillium lilacinum 6080

6114 6116

Verticillium lecanii 6068 6085

Turkey

5723

Aspergillus niger 5721*Aspergillus ochraceus* 5722*Aspergillus* sp. 6399

Fungus by Host and Location

Hemiptera: Scutelleridae Thysanoptera: Thripidae

<i>Beauveria bassiana</i> 5665 5725 5753 5762 10348 10349	Thysanoptera: Phlaeothripidae	<i>Taeniothrips inconsequens</i>
<i>Beauveria bassiana</i> (?) 5684	<i>Haplothrips tritici</i>	Location not specified
<i>Beauveria pseudobassiana</i> 5724	Spain	Unidentified sp. 3319
<i>Beauveria</i> sp. 5686 5680 6394 6395 6396 6397 6398 6400 6401 6402 6403 6409 6410 6425 6428 6429	<i>Beauveria bassiana</i> 4200	USA, Connecticut
<i>Isaria farinosa</i> 5675 5676 5679	Unidentified sp. 3990 3991 3992 4201 4202	<i>Hirsutella</i> sp. 3266
<i>Lecanicillium psalliotae</i> 5666	<i>Liothrips mikaniae</i>	<i>Mariannaea</i> sp. 3264 3265 3267 3268 3269 3270
Uzbekistan	Trinidad	USA, Massachusetts
<i>Beauveria bassiana</i> 6056 6060 6072 6073 6076 6083 6115	<i>Hirsutella</i> sp. 4513 4514	<i>Lecanicillium</i> sp. 3259 3260
<i>Purpureocillium lilacinum</i> 6081 6082 6084 6094 6117	Thysanoptera: Thripidae	<i>Mariannaea</i> sp. 3261 3262 3263
<i>Eurygaster integriceps</i>	Canada	USA, New Hampshire
Iran	<i>Lecanicillium muscarium</i> 2923	<i>Acremonium bactrocephalum</i> 10169
<i>Isaria farinosa</i> 6288	France	<i>Beauveria bassiana</i> 10139
Hemiptera: spf. Coccoidea	<i>Lecanicillium longisporum</i> 3701	<i>Lecanicillium fusisporum</i> (?) 10184
Ukraine	United Kingdom	<i>Lecanicillium muscarium</i> 10178
<i>Lecanicillium muscarium</i> (?) 9463	<i>Verticillium lecanii</i> 6548	<i>Lecanicillium psalliotae</i> 10177
USA, Puerto Rico	USA, New Hampshire	<i>Lecanicillium</i> sp. 10206 10207 10302 10303 10304 10305 10306
<i>Aschersonia</i> sp. 7085	<i>Evlachovaea</i> sp. 11788 11790	<i>Mariannaea</i> sp. 3258 10185 10204 10205
Unidentified / Hyphomycetes 7076 7081 7086	<i>Hirsutella rhossiliensis</i> 11820	Unidentified / Hyphomycetes 10307
USA, Wisconsin	<i>Isaria farinosa</i> 11823	USA, New Jersey
<i>Septobasidium carestianum</i> 6473	USA, New York	Unidentified sp. 3256
Hemiptera: spf. Fulgoroidea	<i>Beauveria bassiana</i> 11848	USA, New York
Argentina	<i>Lecanicillium fusisporum</i> 11787 11808	<i>Isaria</i> sp. 10162
<i>Isaria fumosorosea</i> 7050	USA, Vermont	<i>Lecanicillium psalliotae</i> 10170
Hemiptera: Tingidae	<i>Beauveria bassiana</i> 9927 11841 11846 11847	<i>Lecanicillium</i> sp. 10154
<i>Corythucha ciliata</i>	<i>Conidiobolus coronatus</i> 6512 9914	<i>Mariannaea</i> sp. 3257 10150 10151
France	<i>Fusarium</i> sp. 9937	USA, Pennsylvania
<i>Beauveria bassiana</i> 812	<i>Isaria farinosa</i> 11822	<i>Lecanicillium</i> sp. 3253 3254 3255
<i>Leptopharsa heveae</i>	<i>Lecanicillium evansii</i> (?) 11789 11791 11792 11793 11794 11809	<i>Mariannaea</i> sp. 3252
Brazil, Amazonas	<i>Lecanicillium</i> sp. 9930 9931 9935 9936	USA, Vermont
<i>Evlachovaea</i> sp. 6638	<i>Mariannaea</i> sp. 9932 9933 9934 11812 11813	<i>Acremonium bactrocephalum</i> 10166 10167 10168
<i>Lecanicillium aphanocladii</i> (?) 7986	<i>Metarhizium anisopliae</i> sensu lato 11840	<i>Beauveria bassiana</i> 10138 10140 10143 10144 10145 10147 10148
Brazil, Distrito Federal	<i>Metarhizium</i> sp. 11839	<i>Hirsutella</i> sp. 2939 2940 3318 3546 3548 3553
<i>Evlachovaea</i> sp. 6641	<i>Paecilomyces carneus</i> 11821	<i>Isaria farinosa</i> 3564 10155 10157 10158 10159 10161
<i>Simplicillium lanosoniveum</i> 6642	<i>Paecilomyces marquandii</i> 9928 9929	<i>Isaria</i> sp. 10231 10232 10233 11629
Brazil, Mato Grosso	<i>Trichoderma</i> sp. 9938	<i>Lecanicillium psalliotae</i> 10175 10176 10180 10181 10182
<i>Beauveria bassiana</i> 7984 8637 8638	<i>Frankliniella occidentalis</i>	<i>Lecanicillium psalliotae</i> (?) 10183
<i>Evlachovaea</i> sp. 6635 6639 6640	<i>Beauveria bassiana</i> 9588	<i>Lecanicillium</i> sp. 10187 10188 10189 10190 10192 10193 10195
<i>Lecanicillium aphanocladii</i> (?) 7985	<i>Metarhizium anisopliae</i> sensu lato 9591	10196 10197 10198 10199 10200 10201 10202 10203 10208 10209
<i>Lecanicillium</i> sp. 8639	France	10210 10211 10212 10213 10214 10287 10288 10289 10290 10291
<i>Simplicillium lanosoniveum</i> 6636 6637	<i>Lecanicillium muscarium</i> 3683 3688 <i>Lecanicillium lecanii</i> (?) 3689 <i>Lecanicillium muscarium</i> 3684 3685 3686 3690 3691	10294 10295 10296 10297 10298 10299 10300 10301
<i>Tolypocladium</i> sp. 6634	<i>Lecanicillium muscarium</i> (?) 3687	<i>Mariannaea</i> sp. 2930 3315 3316 3317 3549 3554 3555 3557 3558 3559 3562 3563 10152 10153 10194
Unidentified / Hyphomycetes 8640	Spain	<i>Metarhizium anisopliae</i> sensu lato 10135 10136 10137
French Guiana	<i>Beauveria bassiana</i> 3995 3996	<i>Tolypocladium cylindrosporum</i> 10146
<i>Simplicillium lanosoniveum</i> 6430 6431 6432	Unidentified sp. 3993 3994 3997	Unidentified sp. 3560
<i>Verticillium lecanii</i> 6651	USA, California	Unidentified / Hyphomycetes 10191 10282 10283 10284 10285 10286 10292 10293
Hemiptera: coccioidea: Asterolecani- idae	<i>Beauveria bassiana</i> 9587	<i>Verticillium</i> sp. 3547 3550 3551 3552 3556 3561
<i>Bambusaspis</i> sp.	USA, Florida	
Trinidad and Tobago	<i>Conidiobolus coronatus</i> 3222	
<i>Verticillium pseudohemipterigenum</i> 5687	USA, Hawaii	
	<i>Acremonium</i> (?) sp. 7031	
	USA, Vermont	
	Unidentified sp. 3570	
	<i>Scirtothrips dorsalis</i>	
	India	
	<i>Fusarium</i> sp. 7381	

Thrips calcaratus
 USA, Wisconsin
Beauveria pseudobassiana 3216
Thrips palmi
 Trinidad and Tobago
Hirsutella sp. 4193
 USA, Puerto Rico
Cladosporium cladosporioides 3375
Thrips tabaci
 Denmark
Acremonium psammosporum 4062
Acremonium sp. 4063
Lecanicillium lecanii(?) 5580
 Unidentified / Hyphomycetes 3142
Verticillium lecanii 5709
 Germany
Entomophthora thripidum 5868
 6517 6518 6519 6520 6521 6522
 6525
 Switzerland
Neozygites parvispora 5620 5621

Hemiptera

Hemiptera: Coccoidea

Aschersonia placenta 7604
 Brazil, São Paulo
Lecanicillium lecanii 7550
 Mexico
Moelleriella umbospora 11870
 11871
 Panama
Ascopolyporus philodendrus 7354
Ascopolyporus villosus 7355
Hypocrella panamensis 8361
Torrubiella piperis 7232
 Russian Federation
Lecanicillium muscarium 7633
Sporothrix ghanensis 9500
 Thailand
Hypocrella discoidea 7681
Hypocrella javanica 7605
Hypocrella raciborskii 7606
 USA, Puerto Rico
Fusarium coccophilum 7409
Lecanicillium lecanii 7408
 Unidentified / Hyphomycetes 7386
 USA, Vermont
Lecanicillium sp. 9177

Argentina

Buenos Aires

Aphanocladium sp. 8457 8458
Beauveria bassiana 7464 7465 7467
 7468 7469 7776 8370 8371 8459 8460
 8528 8529
Conidiobolus coronatus 7203
Conidiobolus sp. 7786
Hirsutella sp. 8378
Isaria fumosorosea 6916 7050 7051
 7204 7205 8717 8718 8719 8720 8721
 8723 8724 8725 8726 8727 8728 8729
 8730 8928

Isaria javanica 7477
Lecanicillium lecanii 7207 7462
Lecanicillium longisporum 7206 7457
 7458 7459 7461 7783 7784
Lecanicillium muscarium 7460 7781
 7782 7785
Metarhizium anisopliae sensu lato
 7474 7475 7476 8527
Pandora neoaphidis 11862 11863
Zoophthora radicans 7208 7455 7788
 7789 11860
Zoophthora sp. 7454

Córdoba

Beauveria bassiana 7147

Corrientes

Metarhizium anisopliae sensu lato
 8376 8377

Entre Ríos

Clonostachys rosea 7472

La Rioja

Fusarium sp. 7473

Santa Fe

Zoophthora radicans 11859 11861

Santiago del Estero

Purpureocillium lilacinum 7478

Tucumán

Beauveria bassiana 2011 2457 2516
Clonostachys rosea 7200
Lecanicillium longisporum 2460
Lecanicillium sp. 2009
Metarhizium robertsii 3925

Australia

Pandora neoaphidis 381

Australian Capital Territory

Pandora neoaphidis 835

New South Wales

Batkoa apiculata 839
Beauveria bassiana 300
Conidiobolus obscurus 354 824 834
Pandora kondoiensis 828 836 837
Pandora neoaphidis 827 829 838
Zoophthora radicans 359 370 823

Queensland

Conidiobolus coronatus 349
Ophiocordyceps heteropoda 1880
Entomophaga australiensis 328 331
 365
Entomophthora chromaphidis 1860
 1862 1863
Pandora kondoiensis 369 825
Pandora nouryi 362
Pseudogibellula formicarum 5765
 5766

Victoria

Pandora neoaphidis 830

Austria

Burgenland

Beauveria bassiana 1533 1534 1535
 1536 1537 1538 1539 1540 1635 1636
 1637 1638 1640 1643 1973 1974 1988
Fusarium sp. 1641
Trichothecium roseum 1639 1642

Brazil

Beauveria bassiana 4091 4092 4093
Metarhizium anisopliae sensu lato
 1899 1902 1911 3147 4095 8498
Metarhizium anisopliae sensu stricto
 2517
Trichoderma sp. 807
 Unidentified / Hyphomycetes 7383
Zoophthora radicans 3026

Amazonas

Evlachovaea sp. 6638
Lecanicillium aphanocladii(?) 7986
Metarhizium anisopliae sensu stricto
 755

Bahia

Beauveria bassiana 3999
Fusarium sp. 4002
Metarhizium anisopliae sensu lato
 1282 1299 1379 1382 1896 1898
Metarhizium anisopliae sensu stricto
 1045 1894 1900
 Unidentified sp. 4000 4003

Ceará

Hirsutella guyana 2993
Hirsutella sp. 2644 2645 2646 2647
 2648 2649 2650 2651 2652 2653 2654
 2655 2656 2657 2992

Distrito Federal

Beauveria bassiana 3019
Evlachovaea sp. 6641
Purpureocillium lilacinum 3481
Simplicillium lanosoniveum 6642

Espírito Santo

Metarhizium anisopliae sensu lato
 925
Metarhizium anisopliae sensu stricto
 1044
Penicillium sp. 2643

Goiás

Beauveria bassiana 737 806 933 1478
 2191
Entomophaga australiensis 743
Entomophaga sp. 1230
Hirsutella sp. 1625
Metarhizium anisopliae sensu lato
 729 759 782 955 1882 1970 2212
 2213 2214
Metarhizium anisopliae sensu stricto
 1883
Metarhizium pingshaense 1448
Metarhizium robertsii 1952
Purpureocillium lilacinum 2078 2215
Pandora delphacis 1238 1936
Zoophthora radicans 789 790 1492
 1493 1494 1495 1496 1497 1498 1499
 1500 1501 1502 1503 1504 1541 1542

1543 1544 1581 1582 1583 1584 1585
 1586 1587 1588 1589 1590 1591 1593
 1594 1595 1928 1929 1930 1931 1932
 1933 1934 1935 1937 2196

Mato Grosso

Beauveria bassiana 477 944 945 7984
 8637 8638
Conidiobolus sp. 2147 2148
Evlachovaea sp. 6635 6639 6640
Lecanicillium aphanocladii(?) 7985
Lecanicillium sp. 8639
Simplicillium lanosoniveum 6636
 6637
Tolypocladium sp. 6634
 Unidentified / Hyphomycetes 8640

Pará

Hirsutella versicolor 1034
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 1449 1890 1891 1895

Paraná

Aschersonia sp. 4424 4426 4430 4431
 4432
Aspergillus clavatus 4359
Beauveria bassiana 1054 1457 2519
Isaria fumosorosea 5154 5155 5156
 5157 5158 5159
Metarhizium anisopliae sensu lato
 1055 2521
Paecilomyces sp. 5160
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Pernambuco

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Rio de Janeiro

Cladosporium herbarum 4361
Colletotrichum gloeosporioides 4360
 Rio Grande do Norte
Entomophaga australiensis 791
Hirsutella guyana 878 879 881 882
 883

Rio Grande do Sul

Zoophthora radicans 1227

Rondônia

Hirsutella versicolor 1037

Santa Catarina

Beauveria bassiana 1474
Zoophthora radicans 1228 1229 1231
 1232 1233 1234 1236 1237

São Paulo

Aschersonia sp. 10276
Isaria fumosorosea 6434 6435
Lecanicillium lecanii 7550
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 7979 7981
Metarhizium flavoviride 'Type E'
 2948
Paecilomyces sp. 3101
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 3002 3003 3004 3005 3006 3007 3008
 3009 3010 3011 3012 3013

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Lecanicillium muscarium 2923
Alberta
Beauveria bassiana 6920 6921 6922
6923 6924
Conidiobolus thromboides 2955
Lecanicillium muscarium 3000
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Québec
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Isaria fumosorosea 6789
Lecanicillium lecanii 6791
Lecanicillium muscarium 6792
Caquetá
Fusarium sp. 6320 6375
Metarhizium anisopliae sensu lato
6319 6321 6322 6323
Metarhizium anisopliae sensu stricto
6317 6318
Purpureocillium lilacinum 6340
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Curvularia sp. 6367
Fusarium oxysporum(?) 6355
Fusarium sp. 6348 6351 6352 6353
6354 6358 6465
Metarhizium anisopliae sensu lato
6356 6457 6468
Paecilomyces crustaceus(?) 6462 6467
Paecilomyces lilacinus(?) 6458
Penicillium sp. 6357 6359
Unidentified sp. 6463 6466
Meta
Aspergillus sp. 6369
Dactylella sp. 6372
Metarhizium anisopliae sensu stricto
798
Unidentified sp. 6370
Nariño
Fusarium sp. 6460 6461 6464
Valle
Metarhizium anisopliae sensu lato
6342 6343 6345 6346
Metarhizium anisopliae sensu stricto
6347
Trichoderma viride(?) 6344
Valle del Cauca
Fusarium sp. 6576

Commonwealth of Independent States

Conidiobolus thromboides 58 59 63
100 248 249 250
Russia
Conidiobolus thromboides 99

Costa Rica

Fusarium sp. 3345
Isaria fumosorosea 3429
Mucor sp. 3535
Unidentified sp. 3536
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Beauveria bassiana 3449 3454 3456
Puntarenas
Fusarium sp. 4713 4714 4715
Sterile mycelium 4712

Czechoslovakia

Lecanicillium muscarium 8041

Denmark

Lecanicillium lecanii(?) 5580 5581
Verticillium lecanii 4073 5709

Zealand

Acremonium psammosporum 4062
Acremonium sp. 4058 4059 4063
Batkoo apiculata 5994
Beauveria bassiana 8025 8026 8027
8028 8029 8030 8036
Conidiobolus obscurus 5992
Conidiobolus osmodes(?) 5993
Entomophthora planchoniana 6251
6252
Lecanicillium fusisporum 5583
Lecanicillium lecanii(?) 4060
Lecanicillium psalliotae 5582
Mixed Culture sp. 4066
Pandora neoaphidis 5371 5372 5373
5374 5403 5995 6166
Unidentified / Hyphomycetes 3142
4078 4068
Verticillium lecanii 4025 4061 4064
4065 4067 4069 4070 4071 4072 4075
4076 4077 4079 5854
Verticillium sp. 4074

Zeeland

Batkoo apiculata 2504

Dominican Republic

Verticillium lecanii 6144 6145

Ecuador

Galapagos Islands
Verticillium lecanii 2916

Egypt

Gliocladium(?) sp. 6579 6583
Lecanicillium psalliotae 6581 6582
Simplicillium sp. 6584
Verticillium sp. 6580

France

Batkoo apiculata 67
Beauveria bassiana 1319 1320 1321
1322 1323 1324 1325 1396 1397 1404
1405 1406 1407 1408 1409 1410 1411
1412 1413 1414 1516 1517 1523 1524
1792 1793 1794
Conidiobolus obscurus 434
Pandora neoaphidis 1596 1604 1605
1606 1607 1609 1610 1611 1612 1613
1615 1616 1617 1981 1985 1986 1987
Avignon
Pandora neoaphidis 1598
Charente
Beauveria bassiana 1648
Zoophthora radicans 2256 2257 2258
2259 2260 2261 2262
Drôme
Beauveria bassiana 1649 1795 1984
Essonne
Beauveria bassiana 2318 2319
Gard
Lecanicillium lecanii 3683 3688
Lecanicillium lecanii(?) 3689
Lecanicillium longisporum 3701
Lecanicillium muscarium 3684 3685
3686 3690 3691
Lecanicillium muscarium(?) 3687
Haute-Savoie
Beauveria bassiana 1317 1318 1394
1796 1797 1798 1799
Hérault
Beauveria bassiana 3867
Pandora neoaphidis 3126 3174 3175
Ille-et-Vilaine
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Zoophthora phalloides 352
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Isaria fumosorosea 4383
La Varenne
Conidiobolus thromboides 73
Manche
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Moselle
Conidiobolus obscurus 133 355
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Seine-Saint-Denis
Beauveria bassiana 1395 1650
Vaucluse
Beauveria bassiana 812
Vosges
Beauveria bassiana 1789 1790 1791
Yvelines
Beauveria bassiana 1800 1801 2320
2321 2322 2458 2461 2462 3120
Beauveria pseudobassiana 3121
Lecanicillium aphanocladii 2324
Lecanicillium muscarium 2323 2325
2326
Unidentified sp. 3122 3125

French Guiana

Simplicillium lanosoniveum 6430
6431 6432
Verticillium lecanii 6651

French Polynesia

Tahiti

Scopulariopsis sp. 8825 8826 8827**Germany**

Braunschweig

Entomophthora thripidum 5868 6517
6518 6519 6520 6521 6522 6525**Ghana**

Eastern

Pseudogibellula formicarum 2913**Greece***Beauveria bassiana* 1802 1803 1812
1822**Hong Kong***Isaria fumosorosea* 6797 6798**Hungary**

Budapest

Beauveria bassiana 6968 6969 6970
Beauveria bassiana(?) 6608
Verticillium lecanii 6606**India***Aspergillus* sp. 3698
Fusarium moniliforme var. *inter-*
medium 3223
Fusarium sp. 2232 7233
Isaria fumosorosea 3699 3700 3843
4490 4491 4492 4493 4494 4495 4496
4497*Lecanicillium longisporum* 1026*Lecanicillium muscarium* 2659*Purpureocillium lilacinum* 3846*Paecilomyces* sp. 3873

Sterile mycelium 3702 3868

Unidentified sp. 3773 3779 3869

Andhra Pradesh

Conidiobolus nr. *coronatus* 1742 1743*Conidiobolus* sp. 211*Pandora delphacis* 1730 1731

Bihar

Aspergillus sp. 8280 8519*Fusarium* sp. 8277 8278 8279 8282
8283 8285 8287

Karnataka

Fusarium sp. 7381

Tamil Nadu

Aspergillus clavatus 9375*Aspergillus flavus* 9376*Cladosporium cladosporioides* 9614*Fusarium moniliforme* 2074*Fusarium* sp. 9377*Fusarium subglutinans* 2143 2144 2145*Lecanicillium aphanocladii* 9611*Metarhizium anisopliae* sensu lato
1726 1727 1728 1744 1745 1823 9612
9613*Metarhizium pingshaense* 1724 1725
1729**Indonesia**

Java

Lecanicillium lecanii 2149 2150

Jawa Barat, Java

Aschersonia aleyrodis 2154*Beauveria bassiana* 2427*Conidiobolus coronatus* 1876*Conidiobolus* nr. *coronatus* 598*Fusarium coccophilum* 2098*Hirsutella citriformis* 1917 1918 19192099 2100 2101 2102 2103 2420 2422
2423 2426 2428*Metarhizium anisopliae* sensu stricto
2080 2421*Metarhizium pingshaense* 2106*Pandora delphacis* 2091 2092 2093

2094 2095 2096 2409

2132 2146

Verticillium lecanii 5153

Jawa Tengah, Java

Hirsutella citriformis 2346

Lampung, Sumatra

Hirsutella citriformis 532

Lombok Island

Beauveria bassiana 560*Pandora delphacis* 575 579

Sulawesi Selatan, Celebes

Conidiobolus coronatus 563 565 597*Conidiobolus* nr. *coronatus* 602*Conidiobolus* sp. 564 604 605 606*Metarhizium anisopliae* sensu stricto
2153*Metarhizium pingshaense* 576*Nomuraea rileyi* 558*Pandora delphacis* 593 603

Sulawesi Utara, Celebes

Metarhizium album 2082

Sumatera Selatan, Sumatra

Hirsutella sp. 568

Sumatera Utara, Sumatra

Entomophaga australiensis 581*Pandora delphacis* 580

Yogyakarta, Java

Aschersonia sp. 2351 2397 2398*Beauveria bassiana* 566*Conidiobolus* nr. *coronatus* 599 600*Conidiobolus* sp. 595 596*Hirsutella citriformis* 591**Iran***Beauveria bassiana* 10353 10354

10355 10356 10357 10358 10359

10360 10361 10362 11620

Isaria sp. 10363 10364 10365 10366

10367 10368 10369 10370 10371

10372 10373 10374 10375 10376

10377 10379 10380 10381 10382

10383 10384 10385 11631 11632

11633 11634 11635 11636

Lecanicillium lecanii(?) 6289

Esfahan

Isaria farinosa 6288

Mazandaran

Verticillium lecanii 6287 6290 6291**Israel***Conidiobolus thromboides* 83 194*Lecanicillium muscarium* 1029*Pandora neoaphidis* 78*Zoophthora radicans* 103 104 114 139
3737

Brenner

Zoophthora radicans 3623

Central District

Zoophthora radicans 75

Hamerkaz

Zoophthora radicans 105 106 107 108
109 110 111 112

Revevim

Unidentified sp. 4214 4215

Italy

Lazio

Beauveria sp. 1195 1196 1197 1198

1201 1202 1203 1204 1205 1206 1207

1209 1210 1211 1213 1214 1215 1216

1218 1219 1220 1221 1222 1224

Fusarium sp. 1307*Trichothecium roseum* 1212 1226 1308*Trichothecium* sp. 1217 1223

Toscana

Beauveria bassiana 1525 1526 1527
1528*Beauveria* sp. 1199 1200 1208

Umbria

Beauveria bassiana 1529 1531*Isaria fumosorosea* 1530 1532**Japan***Beauveria bassiana* 7256 7258

Fukuoka Prefecture

Conidiobolus coronatus 997*Conidiobolus obscurus* 1131*Pandora delphacis* 134 1124 1132 1133
1264 1268*Pandora neoaphidis* 1134*Zoophthora radicans* 1050 1125 1136
1263

Ibaraki Prefecture

Beauveria bassiana 1098

Nara Prefecture

Hirsutella sp. 1668

Osaka Prefecture

Beauveria bassiana 1553 1554 1555
1556

Saga Prefecture

Aschersonia aleyrodis 992*Aschersonia placenta* 7603

Shizuoka Prefecture

Batkoa apiculata 1146

Tokyo Prefecture

Conidiobolus sp. 999*Conidiobolus thromboides* 1006*Pandora neoaphidis* 993 1137**Kazakhstan***Beauveria bassiana* 9451 11618 11619*Isaria farinosa* 6481 6490 6493 6495
6496 6497*Purpureocillium lilacinum* 6494 6502*Verticillium lecanii* 6479*Verticillium* sp. 6485 6498 6500

Kyrgyz Republic

Beauveria bassiana 8932 10352
Verticillium sp. 6480

Laboratory manipulation

Beauveria bassiana 3215 3890 3891
3892 3905 3906 3907 3908 4099 4100
4101 4106 4107 4108 4109 4110 4111
4112 4113 4114 4115 4116 4117 4118
4119 4120 4121
Conidiobolus obscurus 832 1741
Entomophaga praxibuli 3058
Isaria fumosorosea 3824 4459 4460
4461
Lecanicillium lecanii(?) 3882 3883
3884
Lecanicillium muscarium 3861
Metarhizium anisopliae sensu lato
3822
Pandora neoaphidis 4934
Verticillium lecanii 3862 3881 3902
3903 3904 3909
Zoophthora radicans 3151 3163 3172
3355 3697

Lesotho

Isaria farinosa 6609

Malaysia

Aschersonia aleyrodii 4209
Aschersonia sp. 4207 4210 4448 4449
Conidiobolus coronatus 512 514 524
Conidiobolus sp. 522
Hirsutella versicolor 4512
Isaria farinosa 4412
Isaria fumosorosea 4205 4400 4401
4404 4406 4407 4408 4409 4410 4411
4413 4414 4415
Mixed Culture sp. 4403
Purpureocillium lilacinum 531
Unidentified sp. 4204
Verticillium lecanii 4416 4417 4418
4419 4420 4421 4422 4423 4453 4454
4455 4456 4457
Verticillium sp. 4194 4195 4203 4398
4399 4402
Wellesley Province
Conidiobolus coronatus 520 523
Conidiobolus sp. 517
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Mauritius

Flacq
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Mexico

Fusarium sp. 3676 3677
Metarhizium anisopliae sensu lato
3307
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1912
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Baja California
Fusarium sp. 3672 3679
Campeche
Beauveria sp. 11754
Hirsutella sp. 11755 11757

Colima

Beauveria bassiana 3312
Isaria fumosorosea 3313 3800
Isaria javanica 3303
Lecanicillium longisporum 8042
Unidentified sp. 3304 3798 3799 3801
3802

Nuevo León

Beauveria bassiana 2544

Quintana Roo

Hirsutella sp. 11761

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Lecanicillium lecanii 6886 6887 6888

Tamaulipas

Aschersonia sp. 3014 3015

Veracruz

Aschersonia turbinata 11868 11869
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Sporothrix sp. 10230

Yucatán

Hirsutella sp. 9605 9606 11758 11759
11760
Purpureocillium lilacinum 9604
Unidentified sp. 3805 3806 3807

Nepal

Beauveria bassiana 7273
Cladosporium sp. 3706
Isaria fumosorosea 4482 4483 4484
4485 4486 5297
Paecilomyces sp. 3870 3871 3872
Sterile mycelium 3711
Unidentified sp. 3844

Netherlands

Utrecht
Aschersonia aleyrodii 2268

Norway

Akershus
Lecanicillium lecanii 6915
Buskerud
Lecanicillium muscarium 6914

Pakistan

Fusarium sp. 3704 3707
Isaria farinosa 5081 5082 5083 5084
Isaria fumosorosea 3848 3851 3878
4498 4499 4501 4502 4503 5085 5086
5087 5088 5089 5090 5107 5113 5115
5116 5117 5118 5119 5121 5122 5272
5298 5475 5476
Paecilomyces sp. 3874 3875 3877 5091
5092 5093 5094 5095 5096 5097 5098
5099 5100 5101 5102 5103 5104 5105
5106 5108 5109 5110 5111 5112 5114
Sterile mycelium 3703 3705 3712
Unidentified sp. 3842 3845 3847 3849
3850 3876

Panama

Ascopolyporus philodendrus 7354
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Hypocrella panamensis 8361
Torrubiella piperis 7232

Papua New Guinea

Beauveria sp. 2164
East New Britain
Fusarium lateritium 2304
Fusarium semitectum 2299 2300
Fusarium sp. 2303
Fusarium subglutinans 2301

Philippines

Hirsutella citriformis 1243 1244 1245
1246 1249 1251 1252 1253 1254 1255
1256 1257 1258 1259
Metarhizium flavoviride var. *minus*
1546 1547

Benguet

Beauveria bassiana 5287 5288 5289
5290 5291 5292 5293 5294 5295
5296

Cagayan

Metarhizium album 2081

Laguna

Conidiobolus coronatus 405 406 418
419 421 422
Metarhizium album 1942 1943

Leyte

Hirsutella citriformis 2347 2598
Isaria fumosorosea 2175
Metarhizium album 2176 2178 2179
Unidentified / *Hyphomycetes* 2177

Luzon

Beauveria bassiana 4981 4982 4983
4984

Manila

Aschersonia sp. 2357 2358
Aschersonia insperata 2356 2396
Conidiobolus coronatus 511
Entomophaga sp. 1126
Hirsutella citriformis 490 684 1036
1062 1063 1064 1436
Hirsutella guyana 2352 2387
Hirsutella sp. 1096
Hirsutella strigosa 2044 2197
Hirsutella verticilliioides 2599
Isaria fumosorosea 2198
Metarhizium album 1840
Metarhizium anisopliae sensu lato
456 457 485 486 487 488 489 543
1284 1285 1286 1290 1300 1304
Metarhizium brunneum 455
Metarhizium flavoviride var. *minus*
1099 1271 1272 1273 1274 1275 1276
1277 1279 1283 1287 1288 1289 1291
1292 1293 1294 1295 1296 1297 1301
1302 1303 1305 1945 2037
Metarhizium pingshaense 2043
Metarhizium sp. 2353
Pandora delphacis 458 459 460 461
478

Mindanao

Hirsutella citriformis 1549

Misamis Oriental

Hirsutella sp. 2208 2209

Palawan

Beauveria bassiana 1269 1270
Hirsutella citriformis 1550
Metarhizium album 1941

<i>Metarhizium anisopliae</i> sensu lato 1432 1548 2341 2342 2343 <i>Metarhizium flavoviride</i> var. <i>minus</i> 2339 <i>Metarhizium pingshaense</i> 1545 Sterile mycelium 1435	Republic of China Taiwan <i>Isaria sinclairii</i> 6925 <i>Nomuraea cylindrospora</i> 6926 <i>Nomuraea viridulus</i> 6927	<i>Metarhizium</i> sp. 7645 <i>Purpureocillium lilacinum</i> 9523 Unidentified / Hyphomycetes 7806
Poland <i>Conidiobolus thromboides</i> 631 633 634 635 <i>Lecanicillium muscarium</i> 972 <i>Pandora neoaphidis</i> 608 609 610 611 612 613 614 636 637 Unidentified sp. 1423 Szczecin <i>Conidiobolus obscurus</i> 243 <i>Conidiobolus thromboides</i> 242 244 245 246 247 630 632 <i>Pandora neoaphidis</i> 638 639	Republic of Georgia Autonomous Republic of Abkhazi <i>Aschersonia aleyrodis</i> 9535 Autonomous Republic of Adjara <i>Fusarium</i> sp. 6225	Solomon Islands Guadalcanal <i>Calcarisporium ovalisporum</i> 1907 <i>Entomophaga</i> sp. 1881 <i>Hirsutella citriformis</i> 1913 <i>Metarhizium flavoviride</i> var. <i>minus</i> 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 <i>Sporothrix</i> sp. 1908
Portugal <i>Pandora neoaphidis</i> 1600	Republic of Kazakhstan <i>Beauveria bassiana</i> 10351 <i>Isaria</i> sp. 10378	South Africa Cape Province <i>Beauveria bassiana</i> 6982 <i>Conidiobolus</i> sp. 6659 <i>Isaria farinosa</i> 6607 Unidentified sp. 3374 <i>Zoophthora radicans</i> 6605 Free State <i>Beauveria bassiana</i> 6978 6979 6980 <i>Cladosporium</i> sp. 11866 <i>Conidiobolus thromboides</i> 4968 <i>Fusarium</i> sp. 4969 11865 <i>Isaria farinosa</i> 6222 6983 <i>Purpureocillium lilacinum</i> 6985 Western Cape Province <i>Beauveria bassiana</i> 5705 <i>Hirsutella illustris</i> 5539 <i>Lecanicillium lecanii</i> 5706 <i>Pandora neoaphidis</i> 5707 5708
PR China <i>Beauveria bassiana</i> 708 709 Anhui <i>Purpureocillium lilacinum</i> 6247 Guizhou Province <i>Beauveria bassiana</i> 11712 <i>Cordyceps</i> sp. 6281 6349 Hunan <i>Beauveria amorphia</i> 656 <i>Beauveria brongniartii</i> 678 <i>Pandora delphacis</i> 664 <i>Trichothecium</i> sp. 653 Hupei <i>Beauveria bassiana</i> 654 679 714 717 719 <i>Pandora delphacis</i> 665 666 667 669 676 698 713 <i>Zoophthora radicans</i> 685 Jiangsu <i>Paecilomyces</i> sp. 680 <i>Pandora delphacis</i> 657 659 660 668 672 673 674 682 686 716 Kiangsu <i>Fusarium</i> sp. 687 Kwon Tung <i>Conidiobolus coronatus</i> 655 <i>Conidiobolus lachnodes</i> 700 Sichuan Province <i>Beauveria bassiana</i> 6027 <i>Isaria farinosa</i> 6028 6029 6030 6031 6032 6033 6034 6036 6037 6038 6048 6049 <i>Lecanicillium muscarium</i> 6035 <i>Verticillium lecanii</i> 6045 6046 6047 6050 Yunnan Province <i>Pandora nouryi</i> 8930 8931 Zhejiang Province <i>Pandora delphacis</i> 6538 6539 <i>Pandora neoaphidis</i> 11662 Zhijiang <i>Pandora delphacis</i> 670	Republic of Korea <i>Beauveria bassiana</i> 6722 6723 <i>Fusarium semitectum</i> 2053 <i>Hirsutella repens</i> 2348 2359 2394 <i>Metarhizium anisopliae</i> sensu lato 2038 2039 <i>Polyccephalomyces ramosus</i> 4858 <i>Torrubiella homopterorum</i> 2045 Chungnam Province <i>Beauveria bassiana</i> 7240 Unidentified / Hyphomycetes 5698 Gyeonggi Province <i>Cordyceps</i> sp. 4846 Kangwon-do <i>Beauveria bassiana</i> 7246	Spain <i>Beauveria bassiana</i> 886 1804 1805 1806 1807 1808 1809 1810 1813 1814 <i>Lecanicillium muscarium</i> 3709 <i>Pandora neoaphidis</i> 1601 1602 1603 2085 2086 Sterile mycelium 3710 <i>Trichothecium roseum</i> 3708 Murcia <i>Beauveria bassiana</i> 3995 3996 4200 Unidentified sp. 3990 3991 3992 3993 3994 3997 4201 4202
	Russian Federation <i>Beauveria bassiana</i> 6008 6019 <i>Lecanicillium lecanii</i> 6010 <i>Purpureocillium lilacinum</i> 6018 Krasnodarsky Krai <i>Beauveria bassiana</i> 7583 <i>Engyodontium</i> (?) sp. 9476 <i>Lecanicillium muscarium</i> 7633 <i>Lecanicillium</i> sp. 7622 <i>Simplicillium lamellicola</i> 9481 <i>Simplicillium lanosoniveum</i> 7623 <i>Sporothrix ghanensis</i> 9500 Unidentified / Hyphomycetes 9538 9539 <i>Lecanicillium fungicola</i> 9482 Moscow Region <i>Lecanicillium psalliotae</i> 9474 <i>Lecanicillium</i> sp. 9466 Novosibirsk Region <i>Conidiobolus thromboides</i> 6662 Primorsky Krai <i>Isaria farinosa</i> (?) 7219 <i>Isaria</i> sp. 9517 <i>Lecanicillium muscarium</i> (?) 9464 Rostov <i>Beauveria bassiana</i> 6009 6011 6013 6014 6016 6039 6040 6041 6042 <i>Beauveria brongniartii</i> 6023 <i>Beauveria pseudobassiana</i> 6015 6022 6043 <i>Isaria farinosa</i> 6012 6017 6020 6044 <i>Purpureocillium lilacinum</i> 6021 6024 6026 <i>Verticillium lecanii</i> 6025 Sakhalin Region <i>Beauveria bassiana</i> 7590 9443	Sri Lanka <i>Fusarium</i> sp. 1828 <i>Hirsutella citriformis</i> 1837 <i>Lecanicillium lecanii</i> 555 <i>Lecanicillium muscarium</i> 1033 1774 Sweden 923 Switzerland <i>Conidiobolus</i> sp. 391 <i>Furia virescens</i> 394 <i>Zoophthora anglica</i> 916 926 <i>Zoophthora aphidis</i> 425 <i>Zoophthora radicans</i> 389 914 1130 Schaffhausen <i>Pandora neoaphidis</i> 7938 <i>Zoophthora radicans</i> 1719 Zurich <i>Lecanicillium lecanii</i> 7530 <i>Neozygites parvispora</i> 5620 5621

<i>Pandora neoaphidis</i> 7937 7939	<i>Beauveria pseudobassiana</i> 3153	USA
Syria	<i>Fusarium</i> sp. 6394 6397 6403 6410 6425	<i>Pandora nouryi</i> 366
<i>Aphanocladium album</i> 5756	Düzce Province	Alabama
<i>Beauveria bassiana</i> 6065 6066 6067 6069 6070 6079 6086 6087 6088 6089 6090 6091 6149	<i>Lecanicillium muscarium</i> 11734	<i>Pandora delphacis</i> 2028
<i>Fusarium</i> sp. 5755 5757	Gaziantep	Arizona
<i>Lecanicillium muscarium</i> 6118	<i>Aspergillus niger</i> 5721	<i>Beauveria bassiana</i> 5283 5284
<i>Lecanicillium psalliotae</i> 6071	<i>Aspergillus ochraceus</i> 5722	<i>Cladosporium cladosporioides</i> 3463
<i>Purpureocillium lilacinum</i> 6080 6114 6116	<i>Beauveria bassiana</i> 5725	<i>Isaria fumosorosea</i> 5327 5328
Unidentified / Zygomycetes 6119 6160	<i>Beauveria bassiana</i> (?) 5684	<i>Lecanicillium muscarium</i> 3464
<i>Verticillium lecanii</i> 6068 6085	<i>Beauveria</i> sp. 5686	Arkansas
Halab	<i>Isaria farinosa</i> 5675 5723	<i>Beauveria bassiana</i> 3769
<i>Beauveria bassiana</i> 5674	Giresun Province	<i>Pandora delphacis</i> 3484
<i>Fusarium</i> sp. 5682	<i>Simplicillium lamellicola</i> 11727 11729	<i>Pandora heteropterae</i> 9266
<i>Lecanicillium psalliotae</i> 5681 5683 5763 5835	Kahraman Maras	<i>Pandora neoaphidis</i> 3248 3249 3250 3251
Taiwan	<i>Beauveria bassiana</i> 5665 5753 5762	California
<i>Paecilomyces</i> sp. 4985 4986 4987 4988 4989	<i>Beauveria pseudobassiana</i> 5724	<i>Beauveria bassiana</i> 6660 6661 8318 9587
Tanzania	<i>Cylindrocarpon</i> sp. 5758	<i>Conidiobolus obscurus</i> 74
<i>Hirsutella</i> sp. 4515	<i>Fusarium</i> sp. 5680	<i>Conidiobolus thromboides</i> 15 29 115 208
Thailand	<i>Isaria farinosa</i> 5676 5679	<i>Fusarium</i> sp. 3668 3669 3670 3671 3673 3674 3675 3678
<i>Aschersonia</i> sp. 4208 4433 4435 4436 4437 4438 4439 4440 4441 4442 4443 4444 4445	<i>Lecanicillium psalliotae</i> 5666	<i>Isaria farinosa</i> 3658 3659 3661
<i>Conidiobolus coronatus</i> 525 528	Kirsehir	<i>Isaria fumosorosea</i> 3660 3662 3663
<i>Tilletiopsis</i> sp. 527 572 573	<i>Fusarium</i> sp. 6428	<i>Lecanicillium muscarium</i> 3324
Northeastern Thailand	Nigde	<i>Pandora neoaphidis</i> 6902
<i>Hypocrella discoidea</i> 7681	<i>Fusarium</i> sp. 6395 6398 6400 6409 6429	Colorado
<i>Hypocrella raciborskii</i> 7606	Ordu Province	<i>Batkoa apiculata</i> 3080
Northern Thailand	<i>Lecanicillium muscarium</i> 11730 11733	<i>Pandora neoaphidis</i> 3081 3082
<i>Hypocrella javanica</i> 7605	<i>Simplicillium lamellicola</i> 11728	Connecticut
Togo	<i>Simplicillium lamellicola</i> (?) 11738	<i>Beauveria bassiana</i> 5767
<i>Hirsutella cryptosclerotium</i> 4517	Sakarya Province	<i>Beauveria bassiana</i> (?) 5816 5817 5818
Trinidad	<i>Simplicillium lamellicola</i> 11732 11737	<i>Hirsutella</i> sp. 3266
<i>Hirsutella</i> sp. 4511 4513 4514	Samsun Province	<i>Isaria farinosa</i> 5826 5827
Trinidad and Tobago	<i>Lecanicillium muscarium</i> 11731	<i>Lecanicillium lecanii</i> 5759
<i>Hirsutella</i> sp. 4193	<i>Simplicillium lamellicola</i> 11735	<i>Lecanicillium lecanii</i> (?) 11815
<i>Metarhizium anisopliae</i> sensu stricto 3621	Trabzon Province	<i>Lecanicillium muscarium</i> (?) 11816
Trinidad	<i>Lecanicillium muscarium</i> 11736	<i>Mariannaea</i> sp. 3264 3265 3267 3268 3269 3270
<i>Verticillium pseudohemipterigenum</i> 5687	Yozgat	<i>Metarhiziopsis microspora</i> 8676 11843
Turkey	<i>Fusarium</i> sp. 6396 6401 6402	<i>Myriangium</i> sp. 11852 11853 11858
<i>Aspergillus niger</i> 6407	Uganda	<i>Myriodontium keratinophilum</i> 11837 11838
<i>Beauveria bassiana</i> 3169 6426 10348 10349	<i>Aschersonia</i> sp. 5216	Sterile mycelium 5819
<i>Fusarium</i> sp. 6411	Ukraine	District of Columbia
<i>Lecanicillium muscarium</i> 980	<i>Isaria farinosa</i> 9513	<i>Fusarium coccophilum</i> 821
Adana	Kherson Oblast	Florida
<i>Fusarium</i> sp. 5726 5727 5728	<i>Lecanicillium muscarium</i> (?) 9463	<i>Aphanocladium album</i> 3680
Adiyaman	United Kingdom	<i>Aschersonia aleyrodis</i> 341 342 430 432
<i>Aspergillus</i> sp. 6405 6406 6408	<i>Isaria fumosorosea</i> 6562	<i>Aschersonia goldiana</i> 343
<i>Beauveria bassiana</i> 6404	<i>Verticillium lecanii</i> 6540 6541 6542 6543 6544 6547 6548	<i>Beauveria bassiana</i> 320 2236 3086 5978
Ankara	England	<i>Conidiobolus coronatus</i> 3222
<i>Aspergillus</i> sp. 6399	<i>Conidiobolus coronatus</i> 1738	<i>Conidiobolus thromboides</i> 39
<i>Beauveria bassiana</i> 3154 3155 3156 3157 3158 3166 3167 3168	<i>Conidiobolus thromboides</i> 42 101 102 363 1733 1734 1735	<i>Hirsutella citriformis</i> 1035 1446 8315 9180 11665
	<i>Lecanicillium longisporum</i> 5126	<i>Isaria farinosa</i> 2954
	<i>Lecanicillium muscarium</i> 3740 5128	<i>Isaria fumosorosea</i> 2247 2658 3076 3083 3322 3682
	<i>Metarhizium anisopliae</i> sensu lato 6570	<i>Lecanicillium longisporum</i> 321
	<i>Metarhizium flavoviride</i> var. <i>pemphigum</i> 6569 7491	<i>Lecanicillium psalliotae</i> 2234 2235
	<i>Verticillium lecanii</i> 3741 3742 3743 5130 5131	<i>Purpureocillium lilacinum</i> 9610
		<i>Paecilomyces</i> sp. 8316
		<i>Trichoderma</i> sp. 3084

Hawaii	<i>Acremonium</i> (?) sp. 7031 7036	<i>Lecanicillium muscarium</i> (?) 5777	<i>Batkoa</i> sp. 3131
	<i>Beauveria bassiana</i> 8706 8710 8711	<i>Lecanicillium</i> sp. 3259 3260 9175 9176 11648	<i>Beauveria bassiana</i> 4462 4463 4464 4523 4524 4691 4692 4693 4694 4695 4696 4697 4976 4977 4978 4979 5808 11848
	<i>Beauveria kipukae</i> 7032	<i>Mariannaea</i> sp. 3261 3262 3263	
	<i>Cladosporium cladosporioides</i> (?) 7033	<i>Metarhizium anisopliae</i> sensu lato 9590	<i>Conidiobolus coronatus</i> 3099 3109
	<i>Cladosporium</i> sp. 7035 7039	<i>Metarhiziopsis microspora</i> 8984 8985	<i>Cladosporium</i> sp. 4795
	<i>Isaria fumosorosea</i> 3889	<i>Paecilomyces</i> sp. 5179 5180	<i>Conidiobolus obscurus</i> 3132 3133 3134 3135 3137 3138 3139 3141
	<i>Lecanicillium muscarium</i> 7034 7037	<i>Scopulariopsis</i> sp. 5164	<i>Colletotrichum floriniae</i> 10219 10220 10221 10222 10223
	<i>Sporothrix</i> sp. 7038 7042	<i>Trichoderma lignorum</i> 5176	<i>Conidiobolus thromboides</i> 3129 7209 7210 7211
Idaho	<i>Beauveria bassiana</i> 2336 2860 2861 2864 2879 2880 2881 2882 2883	<i>Verticillium lecanii</i> 5781 5783 5786 5789 5793 5820	<i>Isaria fumosorosea</i> 4698 4699 4700 4701 4702 4703 4704 4705 4706 4707 4708 4709 4710 4711
	<i>Conidiobolus coronatus</i> 2812 2813 2814	Michigan	<i>Isaria</i> sp. 10162
	<i>Conidiobolus thromboides</i> 2828 2829 2849 2850	<i>Conidiobolus</i> sp. 1967	<i>Lecanicillium fusisporum</i> 11787 11808
	<i>Fusarium</i> sp. 2333 2337	<i>Zoophthora radicans</i> 2977 2978 2979 2980	<i>Lecanicillium longisporum</i> 7923
	<i>Lecanicillium muscarium</i> 2334 2858 2862 2877 2878	Minnesota	<i>Lecanicillium muscarium</i> 8714
	<i>Lecanicillium psalliotae</i> 2332	<i>Conidiobolus thromboides</i> 11664	<i>Lecanicillium psalliotae</i> 10170
	<i>Pandora neoaphidis</i> 2874 2875 2876 3240 3365 3366 3367 6631	<i>Pandora neoaphidis</i> 11663	<i>Lecanicillium</i> sp. 10154
	<i>Stachybotrys</i> sp. 2863	Mississippi	<i>Mariannaea</i> sp. 3257 10150 10151
	Unidentified sp. 3368	<i>Beauveria bassiana</i> 8317 8889	<i>Massospora cicadina</i> 374
	Unidentified / Zygomycetes 4970 4971	<i>Lecanicillium muscarium</i> 7375	<i>Metarhiziopsis microspora</i> 8986 8987 8988 11842
	<i>Verticillium lecanii</i> 2859	Montana	<i>Myriangium</i> sp. 11854 11855 11857
	<i>Zoophthora radicans</i> 2811	<i>Batkoa apiculata</i> 3088 3091	<i>Myriangium duriaei</i> 8924 8925
Illinois		<i>Conidiobolus obscurus</i> 3089 3090 3092	<i>Pandora delphacis</i> 3062 3072 3093 3094 3095 3096 3106 3107
	<i>Erynia</i> sp. 1666	<i>Conidiobolus thromboides</i> 2914	<i>Pandora neoaphidis</i> 1570 2583 2584 2585 2587 2588 2589 2591 2592 2593 2594 2754 2755 2756 2757 2758 2760 2761 2762 2763 2766 2767 2768 2769 2773 2781 2782 2783 2784 2837 2838 2839 2840 2842 2844 2845 2846 2847 2848 2851 2852 2853 2854 2855 2856 2865 2866 2867 2868 2870 2872 2873 7212 7213 7214 7226 8607
	<i>Zoophthora radicans</i> 1938 2549 2550 2551 2552 2716 2717 2718 2719 2720 3283 3284	New Hampshire	Unidentified sp. 3128
Kansas		<i>Acremonium bactrocephalum</i> 10169	Unidentified / Hyphomycetes 4689 4690
	<i>Beauveria bassiana</i> 792 2430	<i>Acremonium</i> (?) sp. 9368	<i>Zoophthora occidentalis</i> 2841 3027 3028 3029 3071 3073
Kentucky		<i>Beauveria bassiana</i> 10139	<i>Zoophthora radicans</i> 237 238 239 800 3104 3105 3376 3377 3390 4520
	<i>Pandora neoaphidis</i> 3411 3412 3459	<i>Conidiobolus</i> sp. 11650	Pennsylvania
	Unidentified sp. 3239	<i>Doratomyces</i> (?) sp. 9367	<i>Beauveria bassiana</i> 5493 5494
Maine		<i>Eurotiomycetes, genus undetermined</i> 9360 9361	<i>Lecanicillium</i> sp. 3253 3254 3255
	<i>Batkoa apiculata</i> 129 174	<i>Evlachovaea</i> sp. 11788	<i>Mariannaea</i> sp. 3252
	<i>Conidiobolus obscurus</i> 182	<i>Exophiala</i> sp. 9362	Puerto Rico
	<i>Conidiobolus thromboides</i> 2 40 41 57	<i>Fusarium</i> sp. 11790	<i>Aschersonia andropogonis</i> 7391
	<i>Lecanicillium muscarium</i> 204	<i>Hirsutella rhossiliensis</i> 11820	<i>Aschersonia rhombispora</i> 7390
	<i>Pandora neoaphidis</i> 181	<i>Isaria farinosa</i> 11823	<i>Aschersonia</i> sp. 5215 7085
	<i>Pandora nouryi</i> 199	<i>Lecanicillium fusisporum</i> (?) 10184	<i>Cladosporium cladosporioides</i> 3375
	<i>Phoma</i> sp. 9920	<i>Lecanicillium muscarium</i> 10178 11818	<i>Fusarium coccophilum</i> 7409 7369
	Unidentified sp. 9921	<i>Lecanicillium psalliotae</i> 10177	<i>Lecanicillium lecanii</i> 7408
	<i>Zoophthora occidentalis</i> 207	<i>Lecanicillium</i> sp. 9924 9925 9926 10206 10207 10302 10303 10304 10305 10306	<i>Paecilomyces</i> sp. 7075
Maryland		<i>Mariannaea</i> sp. 3258 10185 10204 10205	Unidentified sp. 7070
	<i>Beauveria brongniartii</i> 7376	<i>Metarhiziopsis microspora</i> 11851	Unidentified / Hyphomycetes 7076 7081 7086 7386 7392
Massachusetts		<i>Myriangium</i> sp. 9915 9916 9917 9918 9919	Rhode Island
	<i>Acremonium</i> sp. 5773	<i>Phoma</i> sp. 9923	<i>Colletotrichum</i> sp. 12083
	<i>Beauveria bassiana</i> 5170 5171 5770 5796	<i>Rhinocladiella</i> (?) sp. 9365 9922	
	<i>Fusarium</i> sp. 5803 5825	<i>Tripospermum</i> sp. 9363	
	<i>Geotrichum</i> (?) sp. 5823	Unidentified / Hyphomycetes 9364 9366 10307	
	<i>Isaria farinosa</i> 5178 5774 5775 5776 5784 5788 5790 5792 5797 5799 5800 5801 5802 5830	New Jersey	
	<i>Isaria</i> sp. 11630	<i>Fusarium</i> sp. 10311 10312 10313 10388 10389 10390 10391 11655	
	<i>Lecanicillium</i> (?) sp. 9369	<i>Lecanicillium muscarium</i> 5795	
	<i>Lecanicillium lecanii</i> 5785 5787 5794 5829	<i>Scopulariopsis</i> sp. 10309 10310	
	<i>Lecanicillium muscarium</i> 5165 5778 5779 5780 5782 5791 5798 5828	Unidentified sp. 3256	
		Unidentified / Hyphomycetes 10386 10387 10392	
		New York	
		<i>Batkoa apiculata</i> 3130 3136 3140	
		<i>Batkoa major</i> 2936 3102 3103	

<i>Fusarium</i> sp. 12072 12073 12074 12075 12076 12077 12078 12079 12084	<i>Metarhizium anisopliae</i> sensu lato 10135 10136 10137 11840	<i>Conidiobolus</i> sp. 2130
<i>Lecanicillium</i> sp. 12052 12053 12054 12055 12056 12057 12058 12059 12060 12061 12062 12063 12064 12065 12066 12067 12068 12069 12070 12071	<i>Metarhizium</i> sp. 11839	<i>Erynia</i> sp. 2279 2292 2294
<i>Rhinocladia</i> (?) sp. 12080 12081 12082	<i>Myriangium</i> sp. 11856	<i>Pandora neoaphidis</i> 1696 2016 2108 2109 2110 2112 2114 2115 2116 2117 2118 2119 2120 2121 2122 2280 2293 2298
Unidentified / Hyphomycetes 12085	<i>Paecilomyces carneus</i> 11821	<i>Zoophthora phalloides</i> 2281
Texas	<i>Paecilomyces marquandii</i> 9928 9929	<i>Zoophthora radicans</i> 2241 2242 2243 2244 2245 2246 2286 2287 2696 2700 2701 2702 2706 2708 2713 3119 3149 3150 3159 3160 3164 3165 3170 3171
<i>Fusarium</i> sp. 5332	<i>Tolypocladium cylindrosporum</i> 10146	Bosnia and Hercegovina
<i>Isaria farinosa</i> 3572 3574 3575 3576 3578 3579 3580 3582 3583 3584 3585 3586 3587 3588 3589 3591 3592 3593 5306	<i>Trichoderma</i> sp. 9938	<i>Pandora neoaphidis</i> 2123
<i>Isaria fumosorosea</i> 3581 3590 3594 5260 5261 5262 5263 5264 5265 5266 5267 5268 5269 5270 5271 5307 5308 5309 5310 5311 5312 5313 5314 5315 5316 5317 5318 5319 5320 5322 5323 5324 5325 5326 5330 5331 5462 5463 5464	Unidentified sp. 3560 3570	Voyvodina
<i>Isaria javanica</i> 3573 3577 3776 3778 5259 5321	Unidentified / Hyphomycetes 6503 6504 10191 10282 10283 10284 10285 10286 10292 10293 12086 12087 12088 12090	<i>Pandora neoaphidis</i> 2017 2018 2019 2020
<i>Isaria poprawskii</i> 7028	Unidentified / Zygomycetes 6157 6158 6159 6507 6508 6509 6510 6511	Unidentified / Zygomycetes 2022
<i>Paecilomyces</i> sp. 3772 3774 3775 3777 3780 3781 3782 3783 3784 3785 3786 3787 3788	<i>Verticillium lecanii</i> 5166	
Vermont	<i>Verticillium</i> sp. 3547 3550 3551 3552 3556 3561	
<i>Acremonium bactrocephalum</i> 10166 10167 10168	Virginia	
<i>Beauveria bassiana</i> 5278 5279 5280 9927 10138 10140 10143 10144 10145 10147 10148 11841 11846 11847	<i>Beauveria bassiana</i> 5768 5769	
<i>Conidiobolus coronatus</i> 6512 9914	<i>Isaria farinosa</i> 5760 5761	
<i>Colletotrichum</i> sp. 10308	<i>Lecanicillium muscarium</i> 5772 5822	
<i>Conidiobolus</i> sp. 5404	<i>Verticillium lecanii</i> 5771 5821 5824	
<i>Fusarium</i> sp. 9937	Washington	
<i>Hirsutella lecaniicola</i> 8888	<i>Beauveria bassiana</i> 3385	
<i>Hirsutella</i> sp. 2939 2940 3318 3546 3548 3553	<i>Conidiobolus</i> sp. 3383 3384	
<i>Isaria farinosa</i> 3564 10155 10157 10158 10159 10161 11822 11833	<i>Lecanicillium lecanii</i> 3387	
<i>Isaria</i> sp. 10231 10232 10233 11629	<i>Pandora neoaphidis</i> 3234 3237 3238 3241 3410	
<i>Lecanicillium evansii</i> (?) 11789 11791 11792 11793 11794 11797 11809	Wisconsin	
<i>Lecanicillium lecanii</i> 11817	<i>Beauveria pseudobassiana</i> 3216	
<i>Lecanicillium psalliotae</i> 10175 10176 10180 10181 10182	<i>Conidiobolus thromboides</i> 649	
<i>Lecanicillium psalliotae</i> (?) 10183	<i>Septobasidium carestianum</i> 6473	
<i>Lecanicillium</i> sp. 9177 9930 9931 9935 9936 10187 10188 10189 10190 10192 10193 10195 10196 10197 10198 10199 10200 10201 10202 10203 10208 10209 10210 10211 10212 10213 10214 10287 10288 10289 10290 10291 10294 10295 10296 10297 10298 10299 10300 10301 12089	<i>Zoophthora radicans</i> 1018 1019 1020 1021 1261 1262	
<i>Mariannaea</i> sp. 2930 3315 3316 3317 3549 3554 3555 3557 3558 3559 3562 3563 9932 9933 9934 10152 10153 10194 11812 11813	USSR	
	Unidentified sp. 3894	
	Uzbekistan	
	<i>Beauveria bassiana</i> 6056 6060 6072 6073 6076 6083 6093 6115 <i>Isaria farinosa</i> 6097 6098 <i>Purpureocillium lilacinum</i> 6081 6082 6084 6094 6117	
	Venezuela	
	<i>Lecanicillium longisporum</i> 974	
	Vietnam	
	<i>Beauveria bassiana</i> 7592	
	<i>Metarhizium anisopliae</i> sensu lato 7644	
	West Indies	
	Trinidad	
	<i>Purpureocillium lilacinum</i> 10225	
	Yugoslavia	
	<i>Conidiobolus</i> sp. 1426	
	<i>Lecanicillium lecanii</i> 1787	
	<i>Pandora neoaphidis</i> 1695 1784 1785 1786 1824 1825 1826 1827 2124 2128 Unidentified sp. 1693 1694 <i>Zoophthora radicans</i> 2282 2283 2284 2285 2288 2289 2703 2709 2712 3114 3115 3116	
	Belgrade	
	<i>Batkoo major</i> 1427	

Alternate Collections

Ahn, S.B.

- D2-4 *Metarhizium anisopliae* sensu lato 2038
E1-22 *Torrubiella homopterorum* 2045
E1-7 & E1-5 *Fusarium semitectum* 2053
E2-13 *Metarhizium anisopliae* sensu lato 2039

Alves, Sergio Batista

- 256 *Beauveria bassiana* 1478
ESALQ 1224 *Tolypocladium* sp. 6634
ESALQ 1225 *Evlachovaea* sp. 6635
ESALQ 1226 *Simplicillium lanosoniveum* 6636
ESALQ 1227 *Simplicillium lanosoniveum* 6637
ESALQ 1228 *Evlachovaea* sp. 6638
ESALQ 1229 *Evlachovaea* sp. 6639
ESALQ 1230 *Evlachovaea* sp. 6640
ESALQ 1235 *Evlachovaea* sp. 6641
ESALQ 1237 *Simplicillium lanosoniveum* 6642

Aoki, Joji

- Ash. 1 *Aschersonia aleyrodii* 992
Ent. 11 *Conidiobolus coronatus* 997
Ent. 15 *Conidiobolus thromboides* 1006
Ent. 25 *Pandora neoaphidis* 993
Ent. 26 *Zoophthora radicans* 1050
Ent. 45 *Conidiobolus* sp. 999
Ent. 5 *Zoophthora radicans* 1263
Ent. 6 *Pandora delphacis* 1264
Ent. 9 *Conidiobolus obscurus* 1131

APHIS

- WFP-362 *Isaria fumosorosea* 5272
WFP-362 *Isaria fumosorosea* 5298
WFP-363 *Isaria fumosorosea* 5297

ARSEF

- ?1096 *Hirsutella citriformis* 1256
?1256 *Hirsutella* sp. 1096
?1294 *Metarhizium flavoviride* var. *minus* 1295
?1295 *Metarhizium flavoviride* var. *minus* 1294
?2708 *Zoophthora radicans* 3163
?3117 *Zoophthora radicans* 2702
?3161 *Zoophthora radicans* 2696
?3163 *Zoophthora radicans* 2708
101 *Conidiobolus thromboides* 1733
102 *Conidiobolus thromboides* 363
102 *Conidiobolus thromboides* 1734
103 *Zoophthora radicans* 359
103 *Zoophthora radicans* 370
103 *Zoophthora radicans* 823
1035 *Hirsutella citriformis* 1446
1045 *Metarhizium anisopliae* sensu lato 1299
115 *Conidiobolus thromboides* 15
115 *Conidiobolus thromboides* 208
117 (lost) *Conidiobolus thromboides* 42
1299 *Metarhizium anisopliae* sensu stricto 1045
133 *Conidiobolus obscurus* 355
1446 *Hirsutella citriformis* 1035
15 *Conidiobolus thromboides* 115
15 *Conidiobolus thromboides* 208

- 1544 *Zoophthora radicans* 1595
1555 *Beauveria bassiana* 3906
1557 (deaccessioned) *Hirsutella versicolor* 1034
1595 *Zoophthora radicans* 1544
1733 *Conidiobolus thromboides* 101
1734 *Conidiobolus thromboides* 102
1734 *Conidiobolus thromboides* 363
1869 (lost) *Zoophthora phalloides* 352
208 *Conidiobolus thromboides* 15
208 *Conidiobolus thromboides* 115
2153 *Metarhizium anisopliae* sensu lato 3822
2198 *Isaria fumosorosea* 4699
2320 *Beauveria bassiana* 3907
2336 *Beauveria bassiana* 2883
2348 *Hirsutella repens* 2359
2348 *Hirsutella repens* 2394
2351 *Aschersonia* sp. 2397
2352 *Hirsutella guyana* 2387
2359 *Hirsutella repens* 2348
2359 *Hirsutella repens* 2394
2381 (never frozen) *Metarhizium anisopliae* sensu lato 2341
2382 (never frozen) *Metarhizium* sp. 2353
2383 (never frozen) *Metarhizium anisopliae* sensu lato 2341
2384 (never frozen) *Metarhizium anisopliae* sensu lato 2342
2385 (never frozen) *Metarhizium anisopliae* sensu lato 2343
2387 *Hirsutella guyana* 2352
2388 (never frozen) *Hirsutella citriformis* 2346
2389 (never frozen) *Hirsutella citriformis* 2347
2391 (never frozen) *Aschersonia insperata* 2356
2392 (never frozen) *Aschersonia* sp. 2357
2393 (never frozen) *Aschersonia* sp. 2358
2394 *Hirsutella repens* 2348
2394 *Hirsutella repens* 2359
2397 *Aschersonia* sp. 2351
252 *Beauveria bassiana* 5275
252 *Beauveria bassiana* 5276
252 *Beauveria bassiana* 5277
252 *Beauveria bassiana* 5278
252 *Beauveria bassiana* 5279
252 *Beauveria bassiana* 5280
252 *Beauveria bassiana* 5281
252 *Beauveria bassiana* 5282
252 *Beauveria bassiana* 5283
252 *Beauveria bassiana* 5284
252 *Beauveria bassiana* 5285
2627 *Metarhizium anisopliae* sensu stricto 7980
2649 *Hirsutella* sp. 2992
2650 *Hirsutella guyana* 2993
2700 *Zoophthora radicans* 3171
2701 *Zoophthora radicans* 3119
2703 *Zoophthora radicans* 3116
2706 *Zoophthora radicans* 3149
2709 *Zoophthora radicans* 3114
2713 *Zoophthora radicans* 3164
2749 *Isaria fumosorosea* 4700

- 2858 *Verticillium lecanii* 3909
2859 *Verticillium lecanii* 3862
2862 *Lecanicillium muscarium* 3861
2879 *Beauveria bassiana* 4099
2879 *Beauveria bassiana* 4100
2879 *Beauveria bassiana* 4101
2882 *Beauveria bassiana* 3905
2883 *Beauveria bassiana* 2336
2992 *Hirsutella* sp. 2649
2993 *Hirsutella* sp. 2650
3000 *Verticillium lecanii* 3903
3114 *Zoophthora radicans* 2709
3116 *Zoophthora radicans* 2703
3119 *Zoophthora radicans* 2701
3149 *Zoophthora radicans* 2706
3164 *Zoophthora radicans* 2713
3166 *Beauveria bassiana* 3891
3171 *Zoophthora radicans* 2700
3283 *Zoophthora radicans* 3284
3284 *Zoophthora radicans* 3283
332 (lost) *Entomophaga australiensis* 331
3359 *Conidiobolus thromboides* 41
3360 *Conidiobolus thromboides* 15
3360 *Conidiobolus thromboides* 115
3360 *Conidiobolus thromboides* 208
3361 *Conidiobolus thromboides* 15
3361 *Conidiobolus thromboides* 115
3361 *Conidiobolus thromboides* 208
3362 *Conidiobolus thromboides* 40
3364 *Conidiobolus thromboides* 2
3385 *Beauveria bassiana* 3890
354 *Conidiobolus obscurus* 824
355 *Conidiobolus obscurus* 133
3572 *Isaria fumosorosea* 5316
3572 *Isaria fumosorosea* 5317
3572 *Isaria fumosorosea* 5318
3572 *Isaria fumosorosea* 5319
3572 *Isaria fumosorosea* 5327
3572 *Isaria fumosorosea* 5328
3572 *Isaria fumosorosea* 5329
359 *Zoophthora radicans* 370
359 *Zoophthora radicans* 823
363 *Conidiobolus thromboides* 102
363 *Conidiobolus thromboides* 1734
369 *Pandora kondoiensis* 825
3699 *Isaria fumosorosea* 4459
3699 *Isaria fumosorosea* 4460
3699 *Isaria fumosorosea* 4461
370 *Zoophthora radicans* 359
370 *Zoophthora radicans* 823
3836 *Verticillium lecanii* 3881
3836 *Lecanicillium lecanii*(?) 3882
3837 *Lecanicillium lecanii*(?) 3883
3838 *Verticillium lecanii* 3902
3839 *Lecanicillium lecanii*(?) 3884
3840 *Verticillium lecanii* 3904
3908 *Beauveria bassiana* 3908
4460 *Isaria fumosorosea* 4702
4480 *Isaria fumosorosea* 4704
4481 *Isaria fumosorosea* 4705
4489 *Isaria fumosorosea* 4708
4491 *Isaria fumosorosea* 4709
4492 *Isaria fumosorosea* 4710
4493 *Isaria fumosorosea* 4711
467 (lost) *Zoophthora aphidis* 425

643 (lost) *Zoophthora aphidis* 425
7984 *Beauveria bassiana* 8638
7985 Unidentified / *Hyphomycetes* 8640
823 *Zoophthora radicans* 359
823 *Zoophthora radicans* 370
824 *Conidiobolus obscurus* 354
825 *Pandora kondoensis* 369
8638 *Beauveria bassiana* 7984
8640 *Lecanicillium aphanocladii*(?) 7985
96 (lost) *Conidiobolus coronatus* 1738
995 (deaccessioned) *Conidiobolus obscurus* 1131

ATCC

14270 *Conidiobolus thromboides* 15
14270 *Conidiobolus thromboides* 115
14270 *Conidiobolus thromboides* 208
200913 *Metarhizium flavoviride* var.
minus 1763
24318 *Isaria fumosorosea* 3824
24400 *Isaria sinclairii* 6925
24418 *Conidiobolus obscurus* 74
24419 *Conidiobolus thromboides* 73
26854 *Lecanicillium muscarium* 8041
32245 *Zoophthora radicans* 3623
36482 *Sporodiniella umbellata* 5222
60335 *Metarhizium anisopliae* sensu lato
925
60336 *Metarhizium anisopliae* sensu
stricto 1894

Avery, Pasco B.

1 DAT 10⁻² *Purpureocillium lilacinum*
9610
B2-1 *Purpureocillium lilacinum* 9610

B.A. Mullin

BO-1 *Paecilomyces* sp. 3788

Balazy, Stanislaw

1508m Unidentified sp. 1423

Banu, J. Gulsar

1 *Lecanicillium aphanocladii* 9611
1 *Aspergillus clavatus* 9375
2 *Aspergillus flavus* 9376
2 *Metarhizium anisopliae* sensu lato
9612
3 *Fusarium* sp. 9377
3 *Metarhizium anisopliae* sensu lato
9613
4 *Cladosporium cladosporioides* 9614

BCC

1487 *Hypocrella raciborskii* 7606
2097 *Hypocrella discoidea* 7681
2230 *Aschersonia placenta* 7604
2339 *Hypocrella javanica* 7605

Ben-Ze'ev, Israel

38 *Conidiobolus thromboides* 194

Boucias, Drion G.

UF1HcDc03 *Hirsutella citriformis* 11665

Braun, Ann

Bogor *Verticillium lecanii* 5153

Broadbent, A. Bruce

BB002 *Verticillium lecanii* 5809
BB008 *Beauveria bassiana* 5808

Brownbridge, Michael

A *Mariannaea* sp. 3252
B *Lecanicillium* sp. 3253
C *Lecanicillium* sp. 3254
D *Lecanicillium* sp. 3255
DT-122 *Mariannaea* sp. 3315
E Unidentified sp. 3256
F *Mariannaea* sp. 3257
F1.2 *Lecanicillium lecanii* 3683
F10 *Lecanicillium muscarium* 3691
F2.3 *Lecanicillium muscarium* 3684
F3.1 *Lecanicillium muscarium* 3685
F4 *Lecanicillium muscarium* 3686
F5 *Lecanicillium muscarium*(?) 3687
F6 *Lecanicillium lecanii* 3688
F7 *Lecanicillium lecanii*(?) 3689
F9 *Lecanicillium muscarium* 3690
FREY2 *Beauveria bassiana* 5493
FREY3 *Beauveria bassiana* 5494
G *Mariannaea* sp. 3258
I *Lecanicillium* sp. 3259
J *Lecanicillium* sp. 3260
K *Mariannaea* sp. 3261
L *Mariannaea* sp. 3262
L3741 *Isaria* sp. 11629
M *Mariannaea* sp. 3263
N *Mariannaea* sp. 3264
O *Mariannaea* sp. 3265
P *Hirsutella* sp. 3266
Perry 1 *Hirsutella* sp. 3318
Perry 2 *Mariannaea* sp. 3317
Perry 3 Unidentified sp. 3319
Q *Mariannaea* sp. 3267
R *Mariannaea* sp. 3268
R-11 *Mariannaea* sp. 3549
R-12 *Verticillium* sp. 3550
R-13 *Verticillium* sp. 3551
R-14 *Verticillium* sp. 3552
R-15 *Hirsutella* sp. 3553
R-20.1 *Mariannaea* sp. 3554
R-22 *Verticillium* sp. 3556
R-23 *Mariannaea* sp. 3557
R-25 *Mariannaea* sp. 3558
R-27 *Mariannaea* sp. 3559
R-28 Unidentified sp. 3560
R-29 *Verticillium* sp. 3561
R-31 *Mariannaea* sp. 3562
R-34 *Mariannaea* sp. 3563
R-38 *Isaria farinosa* 3564
R-4 *Hirsutella* sp. 3546
R-6 *Verticillium* sp. 3547
R-9 *Hirsutella* sp. 3548
S *Mariannaea* sp. 3269
T *Mariannaea* sp. 3270
WFT-3 Unidentified sp. 3570
Williams *Mariannaea* sp. 3316

Carruthers, Raymond I.

A-II *Zoophthora radicans* 2287
A-IV *Zoophthora radicans* 2286
C-II *Zoophthora radicans* 2289
D-I *Zoophthora radicans* 2282
D-II *Zoophthora radicans* 2284
D-III *Zoophthora radicans* 2283
D-IV *Zoophthora radicans* 2288
HOP-I *Zoophthora radicans* 2246
HOP-II *Zoophthora radicans* 2243
HOP-III *Zoophthora radicans* 2242
HOP-V *Zoophthora radicans* 2241
HOP-VI *Zoophthora radicans* 2245
HOP-VII *Zoophthora radicans* 2244

CATIE

13 *Beauveria bassiana* 3449
18 *Beauveria bassiana* 3454
20 *Beauveria bassiana* 3456

CBS

115882 *Clonostachys rosea* 7200
115883 *Clonostachys rosea* 7472
116719 *Torrubiella piperis* 7232
128517 *Colletotrichum fioriniae* 10222
148.75 *Sporodiniella umbellata* 5222
182.60 *Conidiobolus obscurus* 74
183.60 *Conidiobolus thromboides* 15
183.60 *Conidiobolus thromboides* 115
183.60 *Conidiobolus thromboides* 208
349.84 *Aschersonia placenta* 7603
418.82 *Hirsutella citriformis* 1035
418.82 *Hirsutella citriformis* 1446
422.82 *Hirsutella versicolor* 1034
423.82 *Hirsutella versicolor* 1037
433.73 *Pseudogibellula formicarum* 2913
537.81 *Verticillium lecanii* 2916
912.70 *Hirsutella citriformis* 1036

CENARGEN

CG 168 *Metarhizium anisopliae* sensu
stricto 1883
CG 36 *Purpureocillium lilacinum* 3481
CG 422 Unidentified / *Hyphomycetes*
8640
CG 422 *Lecanicillium aphanocladii*(?)
7985
CG 69 *Beauveria bassiana* 3019
CG 826 *Lecanicillium* sp. 8639
CG 858 *Metarhizium anisopliae* sensu
stricto 7981
CG 882 *Beauveria bassiana* 8637
CG 883 *Beauveria bassiana* 8638
CG 883 *Beauveria bassiana* 7984

CEP

050 *Clonostachys rosea* 7200
051 *Isaria fumosorosea* 7204
052 *Zoophthora radicans* 7208
054 *Lecanicillium muscarium* 7460
055 *Isaria fumosorosea* 7205
056 *Lecanicillium longisporum* 7461
056 *Lecanicillium longisporum* 7206
057 *Lecanicillium lecanii* 7207
062 *Conidiobolus coronatus* 7203
063 *Lecanicillium muscarium* 7781
066 *Clonostachys rosea* 7472
069 *Beauveria bassiana* 8459

Alternate Collections

071 *Purpureocillium lilacinum* 7478
072 *Beauveria bassiana* 7464
074 *Beauveria bassiana* 7465
076 *Metarhizium anisopliae* sensu lato 7474
077 *Beauveria bassiana* 7467
078 *Metarhizium anisopliae* sensu lato 7475
080 *Beauveria bassiana* 7468
081 *Beauveria bassiana* 7469
086 *Metarhizium anisopliae* sensu lato 7476
100 *Lecanicillium longisporum* 7457
101 *Lecanicillium longisporum* 7458
106 *Lecanicillium longisporum* 7459
107 *Isaria javanica* 7477
108 *Lecanicillium lecanii* 7462
111 *Beauveria bassiana* 8460
122 *Metarhizium anisopliae* sensu lato 8527
127 *Zoophthora radicans* 7454
130 *Zoophthora radicans* 7455
134 *Fusarium* sp. 7473
137 *Beauveria bassiana* 8370
139 *Beauveria bassiana* 8528
140 *Beauveria bassiana* 8529
142 *Beauveria bassiana* 8371
160 *Metarhizium anisopliae* sensu lato 8376
172 *Zoophthora radicans* 7788
173 *Zoophthora radicans* 7789
178 *Metarhizium anisopliae* sensu lato 8377
182 *Lecanicillium muscarium* 7782
184 *Conidiobolus* sp. 7786
188 *Lecanicillium longisporum* 7783
189 *Beauveria bassiana* 7776
190 *Lecanicillium longisporum* 7784
194 *Lecanicillium muscarium* 7785
200 *Aphanocladium* sp. 8457
201 *Aphanocladium* sp. 8458
302 *Isaria fumosorosea* 8716
303 *Isaria fumosorosea* 8717
304 *Isaria fumosorosea* 8718
305 *Isaria fumosorosea* 8719
306 *Isaria fumosorosea* 8720
307 *Isaria fumosorosea* 8721
308 *Isaria fumosorosea* 8723
309 *Isaria fumosorosea* 8724
310 *Isaria fumosorosea* 8725
311 *Isaria fumosorosea* 8726
312 *Isaria fumosorosea* 8727
313 *Isaria fumosorosea* 8728
314 *Isaria fumosorosea* 8729
315 *Isaria fumosorosea* 8730
316 *Isaria fumosorosea* 8928

Chandler, David

HRI 1.72 *Lecanicillium longisporum* 5126
HRI 18.78 *Verticillium lecanii* 6544
HRI 19.79 *Lecanicillium muscarium* 5128
HRI 2.72 *Verticillium lecanii* 6540
HRI 3.72 *Verticillium lecanii* 6541
HRI 336.92 *Verticillium lecanii* 5130
HRI 339.92 *Verticillium lecanii* 5131
HRI 391.93 *Metarhizium anisopliae* sensu lato 6570

HRI 40.81 *Verticillium lecanii* 6547
HRI 402.93 *Isaria fumosorosea* 6562
HRI 5.72 *Verticillium lecanii* 6542
HRI 53.81 *Verticillium lecanii* 6548
HRI 6.72 *Verticillium lecanii* 6543
HRI 99.82 *Metarhizium flavoviride* var. *pemphigum* 6569

CIAT

001 *Metarhizium anisopliae* sensu stricto 6317
004 *Fusarium* sp. 6320
016 *Trichoderma viride*(?) 6344
020 *Fusarium* sp. 6348
021 *Fusarium* sp. 6351
022 *Fusarium* sp. 6352
023 *Fusarium* sp. 6353
024 *Fusarium* sp. 6354
025 *Fusarium oxysporum*(?) 6355
028 *Fusarium* sp. 6358
040 *Fusarium* sp. 6375
042 *Metarhizium anisopliae* sensu lato 6457
043 *Paecilomyces lilacinus*(?) 6458
044 *Beauveria bassiana* 6459
045 *Fusarium* sp. 6460
046 *Fusarium* sp. 6461
047 *Paecilomyces crustaceus*(?) 6462
048 Unidentified sp. 6463
049 *Fusarium* sp. 6464
050 *Fusarium* sp. 6465
051 Unidentified sp. 6466
052 *Paecilomyces crustaceus*(?) 6467
053 *Metarhizium anisopliae* sensu lato 6468
068 *Fusarium* sp. 6576

CNPAF

82-1-26-01 *Beauveria bassiana* 737
82-12-01 *Metarhizium anisopliae* sensu lato 1970
82-12-20-02 *Beauveria bassiana* 933
82-2-15-02 *Metarhizium anisopliae* sensu lato 729
82-3-10-04 *Entomophaga australiensis* 743
82-4-1-01 *Metarhizium anisopliae* sensu lato 759
82-4-5-01 *Metarhizium anisopliae* sensu stricto 755
82-5-4-01 *Metarhizium anisopliae* sensu lato 782
82-5-4-06 *Beauveria bassiana* 806
82-5-7-3D-1 *Entomophaga australiensis* 791
82-6-25-01 *Zoophthora radicans* 789
82-6-25-02 *Zoophthora radicans* 790
83-03-16F *Beauveria bassiana* 944
83-03-16G *Beauveria bassiana* 945
83-04-13-2L *Hirsutella guyana* 878
83-04-13-2M *Hirsutella guyana* 881
83-04-13-2P *Hirsutella guyana* 879
83-04-13-Q *Hirsutella guyana* 882
83-04-21-1J *Hirsutella guyana* 883
83-12-27 *Metarhizium pingshaense* 1448
83-4-27 *Metarhizium anisopliae* sensu lato 955

84-03-28-1A *Beauveria bassiana* 1457
84-03-30-2A-A *Zoophthora radicans* 1239
84-04-02-1A *Beauveria bassiana* 1474
84-04-02-5A *Zoophthora radicans* 1237
84-04-02-5B *Zoophthora radicans* 1231
84-04-02-5C *Zoophthora radicans* 1232
84-04-02-5D *Zoophthora radicans* 1228
84-04-02-5J *Zoophthora radicans* 1236
84-04-02-6B *Zoophthora radicans* 1234
84-04-02-6F *Zoophthora radicans* 1229
84-04-02-6G *Zoophthora radicans* 1233
84-04-03-6B *Zoophthora radicans* 1227
84-04-09-1B *Entomophaga* sp. 1230
84-04-13-1B *Pandora delphacis* 1238
84-1-26 *Metarhizium anisopliae* sensu lato 1449
85-7-21 *Metarhizium robertsii* 1952
86-06-05-2 *Purpureocillium lilacinum* 2215
86-06-05-7 *Metarhizium anisopliae* sensu lato 2214
86-06-05-8 *Metarhizium anisopliae* sensu lato 2213
86-06-05-9 *Metarhizium anisopliae* sensu lato 2212
86-3-26 *Beauveria bassiana* 2191
88-07-16-10 *Hirsutella* sp. 2649
88-07-16-10 *Hirsutella* sp. 2992
88-07-16-11 *Hirsutella* sp. 2650
88-07-16-11 *Hirsutella guyana* 2993
88-07-16-12 *Hirsutella* sp. 2651
88-07-16-13 *Hirsutella* sp. 2652
88-07-16-14 *Hirsutella* sp. 2653
88-07-16-15 *Hirsutella* sp. 2654
88-07-16-16 *Hirsutella* sp. 2655
88-07-16-17 *Hirsutella* sp. 2656
88-07-16-18 *Hirsutella* sp. 2657
88-07-16-4 *Hirsutella* sp. 2644
88-07-16-5 *Hirsutella* sp. 2645
88-07-16-6 *Hirsutella* sp. 2646
88-07-16-7 *Hirsutella* sp. 2647
88-07-16-9 *Hirsutella* sp. 2648
Pl-43 *Metarhizium anisopliae* sensu stricto 2627
PL-43 *Metarhizium anisopliae* sensu stricto 7980

CNPS

15 *Beauveria bassiana* 1054
19 *Metarhizium anisopliae* sensu lato 1055

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3 *Hirsutella* sp. 9606
Ve *Lecanicillium lecanii* 6888
Vs *Lecanicillium lecanii* 6887
Vu *Lecanicillium lecanii* 6886

CP

100 *Metarhizium anisopliae* sensu lato 955
108 *Hirsutella guyana* 878
109 *Hirsutella guyana* 879
111 *Hirsutella guyana* 881
112 *Hirsutella guyana* 882
113 *Hirsutella guyana* 883
122 *Metarhizium pingshaense* 1448

123 *Metarhizium anisopliae* sensu lato 1449
127 *Zoophthora radicans* 1227
128 *Zoophthora radicans* 1228
129 *Zoophthora radicans* 1229
130 *Entomophaga* sp. 1230
131 *Zoophthora radicans* 1231
132 *Zoophthora radicans* 1232
133 *Zoophthora radicans* 1233
134 *Zoophthora radicans* 1234
136 *Zoophthora radicans* 1236
137 *Zoophthora radicans* 1237
138 *Pandora delphacis* 1238
139 *Zoophthora radicans* 1239
147 *Beauveria bassiana* 1457
164 *Beauveria bassiana* 1474
170 *Metarhizium anisopliae* sensu lato 1970
171 *Metarhizium anisopliae* sensu lato 1882
172 *Metarhizium anisopliae* sensu stricto 1883
177 *Metarhizium robertsii* 1952
196 *Purpureocillium lilacinum* 2078
20 *Beauveria bassiana* 737
201 *Beauveria bassiana* 2191
208 *Metarhizium anisopliae* sensu lato 2212
209 *Metarhizium anisopliae* sensu lato 2213
210 *Metarhizium anisopliae* sensu lato 2214
211 *Purpureocillium lilacinum* 2215
223 *Beauveria bassiana* 2519
225 *Metarhizium anisopliae* sensu lato 2521
226 *Metarhizium anisopliae* sensu stricto 2517
228 *Beauveria bassiana* 2516
24 *Metarhizium anisopliae* sensu lato 729
242 *Metarhizium anisopliae* sensu stricto 2627
256 *Hirsutella* sp. 2644
257 *Hirsutella* sp. 2645
258 *Hirsutella* sp. 2646
259 *Hirsutella* sp. 2647
260 *Hirsutella* sp. 2648
261 *Hirsutella* sp. 2649
261 *Hirsutella* sp. 2992
262 *Hirsutella* sp. 2650
262 *Hirsutella guyana* 2993
263 *Hirsutella* sp. 2651
264 *Hirsutella* sp. 2652
265 *Hirsutella* sp. 2653
266 *Hirsutella* sp. 2654
267 *Hirsutella* sp. 2655
268 *Hirsutella* sp. 2656
269 *Hirsutella* sp. 2657
271 *Metarhizium flavoviride* 'Type E' 2948
33 *Entomophaga australiensis* 743
37 *Metarhizium anisopliae* sensu lato 759
39 *Metarhizium anisopliae* sensu stricto 755

44 *Entomophaga australiensis* 791
52 *Metarhizium anisopliae* sensu lato 782
53 *Beauveria bassiana* 806
64 *Zoophthora radicans* 789
65 *Zoophthora radicans* 790
71 *Beauveria bassiana* 933
85 *Beauveria bassiana* 944
86 *Beauveria bassiana* 945

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EM503 *Conidiobolus thromboides* 102
EM503 *Conidiobolus thromboides* 363
EM503 *Conidiobolus thromboides* 1734
EM507 *Pandora kondoiensis* 369
EM507 *Pandora kondoiensis* 825
EM510 *Conidiobolus thromboides* 15
EM510 *Conidiobolus thromboides* 115
EM510 *Conidiobolus thromboides* 208
EM517 *Zoophthora radicans* 114
EM518 *Zoophthora radicans* 103
EM529 *Conidiobolus obscurus* 97
EM534 *Conidiobolus thromboides* 73
EM535 *Conidiobolus obscurus* 354
EM535 *Conidiobolus obscurus* 824
EM538 *Pandora nouryi* 362
EM539 *Zoophthora radicans* 359
EM539 *Zoophthora radicans* 370
EM539 *Zoophthora radicans* 823
EM540 *Zoophthora radicans* 379
EM542 *Pandora nouryi* 366
EM543 *Conidiobolus obscurus* 133
EM543 *Conidiobolus obscurus* 355
EM548 *Zoophthora phalloides* 352
EM551 *Conidiobolus thromboides* 83
EM552 *Conidiobolus thromboides* 100
EM553 *Zoophthora radicans* 104
EM554 *Zoophthora radicans* 107
EM555 *Zoophthora radicans* 110
EM556 *Zoophthora radicans* 111
EM557 *Conidiobolus thromboides* 63
EM560 *Zoophthora radicans* 238
EM561 *Zoophthora radicans* 112
EM566 *Conidiobolus obscurus* 832
EM570 *Conidiobolus thromboides* 2
EM571 *Conidiobolus thromboides* 15
EM571 *Conidiobolus thromboides* 115
EM571 *Conidiobolus thromboides* 208
EM572 *Conidiobolus thromboides* 83
EM573 *Conidiobolus thromboides* 100
EM578 *Zoophthora radicans* 103
EM591 *Conidiobolus obscurus* 834
EM598 *Pandora kondoiensis* 828
EM600 *Pandora kondoiensis* 837
EM629 *Batkoa apiculata* 839
EM633 *Pandora neoaphidis* 835
EM635 *Pandora kondoiensis* 836
EM652 *Pandora nouryi* 199
EM653 *Pandora neoaphidis* 638
EM654 *Pandora delphacis* 593
EM667 *Zoophthora radicans* 822
EM667 *Zoophthora radicans* 822
EM670 *Pandora neoaphidis* 838
EM680 *Zoophthora occidentalis* 207
EM681 *Zoophthora phalloides* 352
EM682 *Zoophthora radicans* 1125

EM717 *Pandora neoaphidis* 827
EM723 *Pandora neoaphidis* 830
EM724 *Zoophthora radicans* 103
EM725 *Zoophthora radicans* 104
EM726 *Zoophthora radicans* 105
EM727 *Zoophthora radicans* 106
EM728 *Zoophthora radicans* 108
EM729 *Zoophthora radicans* 109
EM730 *Zoophthora radicans* 111
EM731 *Zoophthora radicans* 139
EM732 *Zoophthora radicans* 789
EM733 *Zoophthora radicans* 790
EM736 *Pandora neoaphidis* 829
EM739 *Pandora neoaphidis* 833
EM740 *Zoophthora aphidis* 425
EM742 *Zoophthora radicans* 1130
FI-0390 *Metarhizium anisopliae* sensu lato 8498
FI-1101 *Metarhizium flavoviride* var. *pemphigum* 7491
FI-1201 *Scopulariopsis* sp. 8825
FI-1202 *Scopulariopsis* sp. 8826
FI-1206 *Scopulariopsis* sp. 8827

Daoust, Richard A.

Bb-Z1 *Beauveria bassiana* 477
EK8-1 *Zoophthora radicans* 789
EK8-2 *Zoophthora radicans* 790
Ek8-4 *Trichoderma* sp. 807
ZcG1 *Metarhizium anisopliae* sensu lato 1895
ZcG3 *Metarhizium anisopliae* sensu lato 1890
ZcG4 *Metarhizium anisopliae* sensu lato 1902

David, H.

10 *Fusarium subglutinans* 2145
8 *Fusarium subglutinans* 2143
9 *Fusarium subglutinans* 2144

de Moura, Edmar C.

H-10 *Hirsutella* sp. 2649
H-10 *Hirsutella* sp. 2992
H-11 *Hirsutella* sp. 2650
H-11 *Hirsutella guyana* 2993

Dromph, Karsten

KVL 633 *Pandora neoaphidis* 6166

Duetting, Patrick S.

G1 *Pandora neoaphidis* 6631

Eilenberg, Jørgen

KVL 29 *Batkoa apiculata* 2504

Ekbom, Barbara Sohn

821007 *Unidentified* 923

El-kadi, Kamul

CEPLAC-ICI *Metarhizium anisopliae* sensu lato 1282

Enkerli, Jürg

ETHZ 110 *Pandora neoaphidis* 7937
ETHZ 115 *Pandora neoaphidis* 7939

Alternate Collections

EPABA

- 1141(29v) *Metarhizium anisopliae* sensu stricto 1912
A-10 *Metarhizium anisopliae* sensu lato 1382
A-12 *Metarhizium anisopliae* sensu lato 1379
A-18 (BAMC) *Metarhizium anisopliae* sensu lato 1898
A-19 (BAMC) *Metarhizium anisopliae* sensu stricto 1900
A-2 *Metarhizium anisopliae* sensu lato 1911
A-23 *Metarhizium anisopliae* sensu lato 1899
A-24 *Metarhizium anisopliae* sensu stricto 1045
A-24 *Metarhizium anisopliae* sensu lato 1299
A-4 *Metarhizium anisopliae* sensu stricto 1894
A-8(BAMC) *Metarhizium anisopliae* sensu lato 1896
E-6(ESMC) *Metarhizium anisopliae* sensu stricto 1044
E-9(ESMC) *Metarhizium anisopliae* sensu lato 925

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- 95-1 *Fusarium* sp. 5726
96-1 *Fusarium* sp. 5727
97-1 *Fusarium* sp. 5728
Belen-1 *Aspergillus niger* 5721
Hursit Dagi-1 *Beauveria bassiana* 5725
Karadag-1 *Aspergillus ochraceus* 5722
Karadag-2 *Unidentified* 5723
Pazarcik/Karabiyikli-1 *Beauveria pseudobassiana* 5724

ERL

- 101 *Beauveria bassiana* 5770
1054 *Metarhizium anisopliae* sensu lato 9590
1055 *Metarhizium anisopliae* sensu lato 9591
1204 *Colletotrichum fioriniae* 10219
1211 *Colletotrichum fioriniae* 10220
1214 *Colletotrichum fioriniae* 10221
1257 *Colletotrichum fioriniae* 10222
1260 *Colletotrichum fioriniae* 10223
1349 *Metarhiziopsis microspora* 8984
1350 *Metarhiziopsis microspora* 8985
1352 *Lecanicillium* sp. 9175
1353 *Lecanicillium* sp. 9176
143 *Isaria* sp. 11630
148 *Isaria farinosa* 5776
1497 *Metarhiziopsis microspora* 8986
1499 *Metarhiziopsis microspora* 8987
1502 *Metarhiziopsis microspora* 8988
1533 *Myriangium duriae* 8924
1537 *Hirsutella lecaniicola* 8888
1538 *Myriangium duriae* 8925
1564 *Lecanicillium* sp. 9177
1646 *Eurotiomycetes*, genus undetermined 9360
1650 *Eurotiomycetes*, genus undetermined 9361

- 1652 *Exophiala* sp. 9362
1655 *Tripospermum* sp. 9363
1659 Unidentified / *Hyphomycetes* 9364
1665 *Rhinoctadiella*(?) sp. 9365
1666 Unidentified / *Hyphomycetes* 9366
1667 *Doratomyces*(?) sp. 9367
1668 *Acremonium*(?) sp. 9368
1669 *Lecanicillium*(?) sp. 9369
1744 *Beauveria bassiana* 9587
1745 *Beauveria bassiana* 9588
1747 *Conidiobolus coronatus* 9914
1748 *Myriangium* sp. 9915
1749 *Myriangium* sp. 9916
1750 *Myriangium* sp. 9917
1751 *Myriangium* sp. 9918
1752 *Myriangium* sp. 9919
1755 *Phoma* sp. 9920
1756 Unidentified sp. 9921
1763 *Rhinoctadiella*(?) sp. 9922
1765 *Phoma* sp. 9923
1768 *Lecanicillium* sp. 9924
1769 *Lecanicillium* sp. 9925
1770 *Lecanicillium* sp. 9926
1771 *Beauveria bassiana* 9927
1772 *Paecilomyces marquandii* 9928
1773 *Paecilomyces marquandii* 9929
1774 *Lecanicillium* sp. 9930
1775 *Lecanicillium* sp. 9931
1776 *Mariannaea* sp. 9932
1777 *Mariannaea* sp. 9933
1778 *Mariannaea* sp. 9934
1779 *Lecanicillium* sp. 9935
1780 *Lecanicillium* sp. 9936
1782 *Fusarium* sp. 9937
1785 *Trichoderma* sp. 9938
1788/1c *Conidiobolus* sp. 11650
1795 *Metarhizium anisopliae* sensu lato 10135
1796 *Metarhizium anisopliae* sensu lato 10136
1797 *Metarhizium anisopliae* sensu lato 10137
1798 *Beauveria bassiana* 10138
1799 *Beauveria bassiana* 10139
1800 *Beauveria bassiana* 10140
1803 *Beauveria bassiana* 10143
1804 *Beauveria bassiana* 10144
1805 *Beauveria bassiana* 10145
1806 *Tolypocladium cylindrosporum* 10146
1807 *Beauveria bassiana* 10147
1808 *Beauveria bassiana* 10148
1810 *Mariannaea* sp. 10150
1811 *Mariannaea* sp. 10151
1812 *Mariannaea* sp. 10152
1813 *Mariannaea* sp. 10153
1814 *Lecanicillium* sp. 10154
1815 *Isaria farinosa* 10155
1817 *Isaria farinosa* 10157
1818 *Isaria farinosa* 10158
1819 *Isaria farinosa* 10159
1821 *Isaria farinosa* 10161
1822 *Isaria* sp. 10162
1828 *Acremonium bactrocephalum* 10166
1829 *Acremonium bactrocephalum* 10167
1830 *Acremonium bactrocephalum* 10168

- 1831 *Acremonium bactrocephalum* 10169
1842 *Lecanicillium psalliotae* 10170
1854 *Lecanicillium psalliotae* 10175
1855 *Lecanicillium psalliotae* 10176
1856 *Lecanicillium psalliotae* 10177
1857 *Lecanicillium muscarium* 10178
1859 *Lecanicillium psalliotae* 10180
1860 *Lecanicillium psalliotae* 10181
1861 *Lecanicillium psalliotae* 10182
1862 *Lecanicillium psalliotae*(?) 10183
1863 *Lecanicillium fusisporum*(?) 10184
1864 *Mariannaea* sp. 10185
1865 *Lecanicillium* sp. 10187
1866 *Lecanicillium* sp. 10188
1867 *Lecanicillium* sp. 10189
1868 *Lecanicillium* sp. 10190
1869 Unidentified / *Hyphomycetes* 10191
1870 *Lecanicillium* sp. 10192
1871 *Lecanicillium* sp. 10193
1872 *Mariannaea* sp. 10194
1873 *Lecanicillium* sp. 10195
1874 *Lecanicillium* sp. 10196
1875 *Lecanicillium* sp. 10197
1876 *Lecanicillium* sp. 10198
1877 *Lecanicillium* sp. 10199
1878 *Lecanicillium* sp. 10200
1879 *Lecanicillium* sp. 10201
1880 *Lecanicillium* sp. 10202
1881 *Lecanicillium* sp. 10203
1882 *Mariannaea* sp. 10204
1883 *Mariannaea* sp. 10205
1884 *Lecanicillium* sp. 10206
1885 *Lecanicillium* sp. 10207
1886 *Lecanicillium* sp. 10208
1887 *Lecanicillium* sp. 10209
1888 *Lecanicillium* sp. 10210
1889 *Lecanicillium* sp. 10211
189 *Beauveria bassiana* 10348
1890 *Lecanicillium* sp. 10212
1891 *Lecanicillium* sp. 10213
1892 *Lecanicillium* sp. 10214
1897 *Isaria* sp. 10231
1898 *Isaria* sp. 10232
1899 *Isaria* sp. 10233
190 *Beauveria bassiana* 10349
1927 Unidentified / *Hyphomycetes* 10282
1928 Unidentified / *Hyphomycetes* 10283
1929 Unidentified / *Hyphomycetes* 10284
1930 Unidentified / *Hyphomycetes* 10285
1931 Unidentified / *Hyphomycetes* 10286
1932 *Lecanicillium* sp. 10287
1933 *Lecanicillium* sp. 10288
1934 *Lecanicillium* sp. 10289
1935 *Lecanicillium* sp. 10290
1936 *Lecanicillium* sp. 10291
1937 Unidentified / *Hyphomycetes* 10292
1938 Unidentified / *Hyphomycetes* 10293
1939 *Lecanicillium* sp. 10294

- 1940 *Lecanicillium* sp. 10295
 1941 *Lecanicillium* sp. 10296
 1942 *Lecanicillium* sp. 10297
 1943 *Lecanicillium* sp. 10298
 1944 *Lecanicillium* sp. 10299
 1945 *Lecanicillium* sp. 10300
 1946 *Lecanicillium* sp. 10301
 1947 *Lecanicillium* sp. 10302
 1948 *Lecanicillium* sp. 10303
 1949 *Lecanicillium* sp. 10304
 1950 *Lecanicillium* sp. 10305
 1951 *Lecanicillium* sp. 10306
 1952 Unidentified / Hyphomycetes 10307
 1953 *Colletotrichum* sp. 10308
 1954 *Scopulariopsis* sp. 10309
 1955 *Scopulariopsis* sp. 10310
 1956 *Fusarium* sp. 10311
 1957 *Fusarium* sp. 10312
 1958 *Fusarium* sp. 10313
 1959 Unidentified / Hyphomycetes 10386
 1960 Unidentified / Hyphomycetes 10387
 1961 *Fusarium* sp. 10388
 1962 *Fusarium* sp. 10389
 1963 *Fusarium* sp. 10390
 1964 *Fusarium* sp. 10391
 1965 Unidentified / Hyphomycetes 10392
 1966 *Fusarium* sp. 11655
 2011 *Lecanicillium fusisporum* 11787
 2013 *Evlachovaea* sp. 11788
 2014 *Lecanicillium evansii*(?) 11789
 2015 *Fusarium* sp. 11790
 2018 *Paecilomyces carneus* 11821
 2019 *Isaria farinosa* 11822
 2020 *Metarhizium* sp. 11839
 2021 *Metarhizium anisopliae* sensu lato 11840
 2022 *Beauveria bassiana* 11841
 2023 *Metarhiziosis microspora* 11842
 2024 *Metarhiziosis microspora* 11843
 2027 *Beauveria bassiana* 11846
 2028 *Beauveria bassiana* 11847
 2029 *Beauveria bassiana* 11848
 2032 *Metarhiziosis microspora* 11851
 2034 *Hirsutella rhossiliensis* 11820
 2035 *Isaria farinosa* 11823
 2045 *Isaria farinosa* 11833
 2049 *Lecanicillium evansii*(?) 11791
 2050 *Lecanicillium evansii*(?) 11792
 2051 *Lecanicillium evansii*(?) 11793
 2052 *Lecanicillium evansii*(?) 11794
 2055 *Lecanicillium evansii*(?) 11797
 2068 *Lecanicillium fusisporum* 11808
 2069 *Lecanicillium evansii*(?) 11809
 2072 *Mariannaea* sp. 11812
 2073 *Mariannaea* sp. 11813
 2079 *Myriodontium keratinophilum* 11837
 2080 *Lecanicillium lecanii*(?) 11815
 2081 *Myriodontium keratinophilum* 11838
 2082 *Lecanicillium muscarium*(?) 11816
 2083 *Lecanicillium lecanii* 11817
 2084 *Lecanicillium muscarium* 11818
 2085 *Myriangium* sp. 11852
 2086 *Myriangium* sp. 11853
 2087 *Myriangium* sp. 11854
 2088 *Myriangium* sp. 11855
 2089 *Myriangium* sp. 11856
 2090 *Myriangium* sp. 11857
 2091 *Myriangium* sp. 11858
 2139 *Lecanicillium* sp. 12052
 2140 *Lecanicillium* sp. 12053
 2141 *Lecanicillium* sp. 12054
 2142 *Lecanicillium* sp. 12055
 2143 *Lecanicillium* sp. 12056
 2144 *Lecanicillium* sp. 12057
 2145 *Lecanicillium* sp. 12058
 2146 *Lecanicillium* sp. 12059
 2147 *Lecanicillium* sp. 12060
 2148 *Lecanicillium* sp. 12061
 2149 *Lecanicillium* sp. 12062
 2150 *Lecanicillium* sp. 12063
 2151 *Lecanicillium* sp. 12064
 2152 *Lecanicillium* sp. 12065
 2153 *Lecanicillium* sp. 12066
 2154 *Lecanicillium* sp. 12067
 2155 *Lecanicillium* sp. 12068
 2156 *Lecanicillium* sp. 12069
 2157 *Lecanicillium* sp. 12070
 2158 *Lecanicillium* sp. 12071
 2159 *Fusarium* sp. 12072
 2160 *Fusarium* sp. 12073
 2161 *Fusarium* sp. 12074
 2162 *Fusarium* sp. 12075
 2163 *Fusarium* sp. 12076
 2164 *Fusarium* sp. 12077
 2165 *Fusarium* sp. 12078
 2166 *Fusarium* sp. 12079
 2167 *Rhinocladiella*(?) sp. 12080
 2168 *Rhinocladiella*(?) sp. 12081
 2169 *Rhinocladiella*(?) sp. 12082
 2170 *Colletotrichum* sp. 12083
 2171 *Fusarium* sp. 12084
 2172 Unidentified / Hyphomycetes 12085
 2173 Unidentified / Hyphomycetes 12086
 2174 Unidentified / Hyphomycetes 12087
 2175 Unidentified / Hyphomycetes 12088
 2176 *Lecanicillium* sp. 12089
 2177 Unidentified / Hyphomycetes 12090
 324 *Verticillium lecanii* 5786
 390 *Isaria* sp. 10363
 391 *Isaria* sp. 10364
 392 *Isaria* sp. 10365
 393 *Isaria* sp. 10366
 394 *Isaria* sp. 10367
 395 *Isaria* sp. 10368
 396 *Isaria* sp. 10369
 397 *Isaria* sp. 10370
 398 *Isaria* sp. 10371
 399 *Isaria* sp. 10372
 400 *Isaria* sp. 10373
 401 *Isaria* sp. 10374
 402 *Isaria* sp. 10375
 403 *Isaria* sp. 10376
 404 *Isaria* sp. 10377
 418 *Beauveria bassiana* 6016
 48 *Isaria* sp. 11629
 487 *Beauveria bassiana* 10351
 499 *Beauveria bassiana* 8932
 516 *Beauveria bassiana* 11618
 519 *Beauveria bassiana* 11619
 527 *Isaria* sp. 10378
 533 *Beauveria bassiana* 10352
 536 *Beauveria bassiana* 10353
 537 *Beauveria bassiana* 10354
 538 *Beauveria bassiana* 10355
 539 *Beauveria bassiana* 10356
 540 *Isaria* sp. 10379
 543 *Beauveria bassiana* 10357
 546 *Isaria* sp. 11631
 548 *Isaria* sp. 10380
 549 *Isaria* sp. 10381
 553 *Beauveria bassiana* 10358
 554 *Isaria* sp. 10382
 555 *Isaria* sp. 11632
 556 *Isaria* sp. 10383
 557 *Beauveria bassiana* 10359
 558 *Beauveria bassiana* 10360
 559 *Isaria* sp. 11633
 560 *Isaria* sp. 11634
 561 *Isaria* sp. 10384
 563 *Beauveria bassiana* 10361
 564 *Isaria* sp. 11635
 565 *Isaria* sp. 11636
 566 *Beauveria bassiana* 10362
 567 *Beauveria bassiana* 11620
 571 *Isaria* sp. 10385
 591 *Lecanicillium* sp. 11648
- Erper, Ismail**
 TR-01 *Simplicillium lamellicola* 11727
 TR-02 *Simplicillium lamellicola* 11728
 TR-03 *Simplicillium lamellicola* 11729
 TR-04 *Lecanicillium muscarium* 11730
 TR-05 *Lecanicillium muscarium* 11731
 TR-06 *Simplicillium lamellicola* 11732
 TR-07 *Lecanicillium muscarium* 11733
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 TR-09 *Simplicillium lamellicola* 11735
 TR-10 *Lecanicillium muscarium* 11736
 TR-11 *Simplicillium lamellicola* 11737
 TR-12 *Simplicillium lamellicola*(?) 11738
- Evans, Harry C.**
 HE96-1013 *Verticillium pseudo-hemipterigenum* 5687
 I85-12 *Metarhizium album* 2082
 I85-87 *Metarhizium album* 2081
 I86-280 *Hirsutella versicolor* 4512
 I88-370 *Hirsutella* sp. 4513
 I88-375 *Hirsutella* sp. 4515
 I88-399 *Hirsutella* sp. 4514
 I91-602 *Hirsutella cryptosclerotium* 4517
 IMI337439 *Hirsutella* sp. 4511
- Farices, Angela**
 34 *Isaria fumosorosea* 4383

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- PPDRI 1 *Verticillium lecanii* 6287
PPDRI 3 *Isaria farinosa* 6288
PPDRI 4 *Lecanicillium lecanii*(?) 6289
PPDRI 5 *Verticillium lecanii* 6290
PPDRI 6 *Verticillium lecanii* 6291

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- DN8701 *Lecanicillium muscarium* 2878
DN8801 *Lecanicillium muscarium* 2862
DN8802 *Lecanicillium muscarium* 2877
DN8803 *Beauveria bassiana* 2861
DN8804 *Beauveria bassiana* 2864
DN8805 *Beauveria bassiana* 2879
DN8806 *Beauveria bassiana* 2882
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KNF2002-5 *Cladosporium* sp. 7035
KNF2002-6 *Acremonium*(?) sp. 7036
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KNF2002-8 *Sporothrix* sp. 7038
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1.72 *Lecanicillium longisporum* 5126
19.79 *Lecanicillium muscarium* 5128
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NI8 *Beauveria bassiana* 8317
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Humber, Richard A.

Fus. Wal *Fusarium* sp. 1828

Hung-Kei, Li

A *Beauveria bassiana* 708
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Au-1 *Pandora neoaphidis* 2762
Au-10 *Pandora neoaphidis* 2766
Au-11 *Pandora neoaphidis* 2768
Au-14 *Pandora neoaphidis* 2767
Au-15 *Pandora neoaphidis* 2757
Au-17 *Pandora neoaphidis* 2784
Au-20 *Pandora neoaphidis* 2781
Au-21 *Pandora neoaphidis* 2769
Au-24 *Pandora neoaphidis* 2848
Au-26 *Pandora neoaphidis* 2838
Au-27 *Pandora neoaphidis* 2839
Au-28 *Pandora neoaphidis* 2837
Au-29 *Pandora neoaphidis* 2847
Au-30 *Pandora neoaphidis* 2855

Au-4 *Pandora neoaphidis* 2854
Au-6 *Pandora neoaphidis* 2761
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Au-8 *Pandora neoaphidis* 2760
EW-5 *Pandora neoaphidis* 2868
Fe-2 *Pandora neoaphidis* 2782
FR-1 *Pandora neoaphidis* 2852
FR-10 *Pandora neoaphidis* 2851
FR-12 *Pandora neoaphidis* 2763
FR-14 *Pandora neoaphidis* 2755
FR-16 *Pandora neoaphidis* 2840
FR-17 *Zoophthora occidentalis* 2841
FR-18 *Pandora neoaphidis* 2842
FR-19 *Pandora neoaphidis* 2844
FR-20 *Pandora neoaphidis* 2845
FR-21 *Pandora neoaphidis* 2846
FR-22 *Pandora neoaphidis* 2853
FR-23 *Pandora neoaphidis* 2865
FR-24 *Pandora neoaphidis* 2866
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FR-7 *Pandora neoaphidis* 2758
FR-8 *Pandora neoaphidis* 2870
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GF-3 *Batkoa* sp. 3131
GF-4 *Conidiobolus obscurus* 3132
GF-5 *Conidiobolus obscurus* 3133
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HG72011 *Pandora neoaphidis* 2591
HG72012 *Pandora neoaphidis* 2592
HG72013 *Pandora neoaphidis* 2593
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Ma-2 *Pandora neoaphidis* 2783
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348 *Metarhizium anisopliae* sensu stricto
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CP 242 *Metarhizium anisopliae* sensu
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I86-280 *Hirsutella versicolor* 4512
I88-370 *Hirsutella* sp. 4513
I88-375 *Hirsutella* sp. 4515
I88-399 *Hirsutella* sp. 4514
I91-602 *Hirsutella cryptosclerotium* 4517
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225999 *Sporodiniella umbellata* 5222
299982 *Metarhizium anisopliae* sensu
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300150 *Metarhizium album* 2082
330803 *Fusarium moniliforme* var. *intermedium* 3223
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Ma-152 *Metarhizium anisopliae* sensu
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1066 *Pandora nouryi* 366
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20 *Conidiobolus obscurus* 121
21 *Conidiobolus obscurus* 122
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421 *Zoophthora radicans* 822
52 *Pandora neoaphidis* 128
54 *Conidiobolus obscurus* 124
542 *Conidiobolus obscurus* 133
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3C(2) *Hirsutella citriformis* 1251
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4A *Hirsutella* sp. 1096
4A *Hirsutella citriformis* 1256
4B *Hirsutella citriformis* 1255
4B(a) *Hirsutella citriformis* 1254
4C *Hirsutella citriformis* 1257
5B *Hirsutella citriformis* 1258
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- 21 *Conidiobolus* sp. 391
- 217 *Zoophthora radicans* 389
- 24 *Furia virescens* 394
- 411 *Zoophthora anglica* 916
- 412 *Zoophthora anglica* 926
- 444 *Zoophthora radicans* 1130
- 445 *Zoophthora radicans* 914
- 520 *Zoophthora radicans* 1719
- 84 *Zoophthora aphidis* 425
- 950 *Lecanicillium lecanii* 7530

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- 3022 *Conidiobolus thromboides* 15
- 3022 *Conidiobolus thromboides* 115
- 3022 *Conidiobolus thromboides* 208
- 3023 *Conidiobolus thromboides* 41
- 3024 *Conidiobolus thromboides* 40
- 3025 *Conidiobolus thromboides* 42
- 3029 *Zoophthora radicans* 3623
- 3035 *Conidiobolus thromboides* 15
- 3035 *Conidiobolus thromboides* 115
- 3035 *Conidiobolus thromboides* 208
- 3040 *Conidiobolus thromboides* 73
- 3043 *Conidiobolus obscurus* 74
- 3060 *Zoophthora radicans* 75
- 3072 *Pandora neoaphidis* 78
- 3086 *Conidiobolus thromboides* 83
- 3096 *Zoophthora radicans* 114
- 3097 *Zoophthora radicans* 139
- 3100 *Zoophthora radicans* 103
- 3101 *Zoophthora radicans* 104
- 3102 *Zoophthora radicans* 105
- 3103 *Zoophthora radicans* 106
- 3104 *Zoophthora radicans* 107
- 3105 *Zoophthora radicans* 108
- 3106 *Zoophthora radicans* 109
- 3107 *Zoophthora radicans* 110
- 3109 *Zoophthora radicans* 111
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- E.a. 11 *Pandora neoaphidis* 78
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- E.s. 28 *Zoophthora radicans* 75
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- E.s. 30 *Zoophthora radicans* 139
- E.s. 31 *Zoophthora radicans* 103
- E.s. 32 *Zoophthora radicans* 104
- E.s. 33 *Zoophthora radicans* 105
- E.s. 34 *Zoophthora radicans* 106
- E.s. 35 *Zoophthora radicans* 107
- E.s. 36 *Zoophthora radicans* 108
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- E.s. 38 *Zoophthora radicans* 110
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- NCRI 03/01/V1 *Lecanicillium lecanii* 6915
- NCRI 04/01/V1 *Lecanicillium muscarium* 6914

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- RLCO *Beauveria bassiana* 792

Lacey, Lawrence

- 92221-Bt1 *Beauveria bassiana* 5274

Lacey, Lawrence A.

- 008A Sterile mycelium 3703
- 015A Sterile mycelium 3705
- 019A Sterile mycelium 3712
- 021A *Fusarium* sp. 3707
- 022A *Fusarium* sp. 3704
- 035A *Trichothecium roseum* 3708
- 036A *Lecanicillium muscarium* 3709
- 037A Sterile mycelium 3710
- 041A Sterile mycelium 3711
- 041A Sterile mycelium 3711
- 052A *Cladosporium* sp. 3706
- 059 *Lecanicillium longisporum* 3701
- 060 Sterile mycelium 3702
- 92075 Unidentified sp. 3894
- 92101 Unidentified sp. 3842
- 92102 Unidentified sp. 3847
- 92111 *Isaria fumosorosea* 4498
- 92112 *Isaria fumosorosea* 3848
- 92113 Unidentified sp. 3845
- 92114 *Paecilomyces* sp. 3874
- 92115 *Paecilomyces* sp. 3875
- 92117 Unidentified sp. 3876
- 92117 *Paecilomyces* sp. 3877
- 92118 *Isaria fumosorosea* 3878
- 92118 *Isaria fumosorosea* 4502
- 92118 *Isaria fumosorosea* 5298
- 92119 *Isaria fumosorosea* 5272
- 92123 *Isaria fumosorosea* 3851
- 92124 Unidentified sp. 3850
- 92133 Unidentified sp. 3844
- 92133 *Paecilomyces* sp. 3870
- 92133 *Isaria fumosorosea* 4482
- 92134 *Isaria fumosorosea* 4483
- 92135 *Paecilomyces* sp. 3871
- 92135 *Isaria fumosorosea* 4484
- 92135 *Isaria fumosorosea* 5297
- 92136 *Isaria fumosorosea* 4485
- 92137 *Paecilomyces* sp. 3872
- 92138 *Isaria fumosorosea* 4486
- 92144 *Purpureocillium lilacinum* 3846
- 92153 Unidentified sp. 3849
- 92157 Sterile mycelium 3868
- 92158 Unidentified sp. 3869
- 92178 *Beauveria bassiana* 3867
- 93027 Unidentified sp. 3990
- 93028 Unidentified sp. 3991
- 93029 Unidentified sp. 3992
- 93030 Unidentified sp. 3993
- 93031 Unidentified sp. 3994
- 93032 *Beauveria bassiana* 3995
- 93033 *Beauveria bassiana* 3996
- 93034 Unidentified sp. 3997
- 93036 *Beauveria bassiana* 3999
- 93037 Unidentified sp. 4000
- 93039 *Fusarium* sp. 4002
- 93040 Unidentified sp. 4003
- 94-41 *Aschersonia aleyrodis* 4209
- 94001 *Beauveria bassiana* 4091
- 94002 *Beauveria bassiana* 4092
- 94003 *Beauveria bassiana* 4093
- 94005 *Metarhizium anisopliae* sensu lato 4095
- 94009 *Isaria fumosorosea* 4383
- 94010 *Aschersonia* sp. 4424
- 94013 *Beauveria bassiana* 4200

- 94014 Unidentified sp. 4201
- 94019 Unidentified sp. 4202
- 94022 Sterile mycelium 4376
- 94023 *Hirsutella* sp. 4193
- 94024 *Aschersonia* sp. 4433
- 94028 *Verticillium lecanii* 4419
- 94029 *Isaria fumosorosea* 4404
- 94030 *Verticillium* sp. 4194
- 94031 *Verticillium* sp. 4195
- 94032 *Verticillium* sp. 4203
- 94035 Unidentified sp. 4204
- 94036 *Isaria fumosorosea* 4205
- 94037 *Aschersonia* sp. 4208
- 94038 *Aschersonia* sp. 4210
- 94039 *Aschersonia* sp. 4207
- 94042 Unidentified sp. 4215
- 94046 Unidentified sp. 4214
- 94047 *Verticillium lecanii* 4420
- 94048 *Verticillium lecanii* 4421
- 94049 *Verticillium lecanii* 4422
- 94050 *Verticillium lecanii* 4423
- 94052 *Verticillium lecanii* 4454
- 94054 *Verticillium lecanii* 4455
- 94055 *Verticillium lecanii* 4456
- 94058 *Verticillium lecanii* 4416
- 94059 *Verticillium lecanii* 4417
- 94060 *Verticillium lecanii* 4418
- 94061 *Isaria fumosorosea* 4401
- 94062 *Verticillium* sp. 4402
- 94063 *Mixed Culture* sp. 4403
- 94065 *Isaria fumosorosea* 4406
- 94068 *Isaria fumosorosea* 4407
- 94069 *Isaria fumosorosea* 4408
- 94070 *Isaria fumosorosea* 4409
- 94071 *Isaria fumosorosea* 4410
- 94072 *Isaria fumosorosea* 4411
- 94073 *Isaria farinosa* 4412
- 94075 *Isaria fumosorosea* 4413
- 94076 *Isaria fumosorosea* 4414
- 94077 *Isaria fumosorosea* 4415
- 94080 *Aschersonia* sp. 4435
- 94081 *Aschersonia* sp. 4436
- 94082 *Aschersonia* sp. 4437
- 94083 *Aschersonia* sp. 4438
- 94084 *Aschersonia* sp. 4439
- 94085 *Aschersonia* sp. 4440
- 94086 *Aschersonia* sp. 4441
- 94087 *Aschersonia* sp. 4442
- 94088 *Aschersonia* sp. 4443
- 94089 *Aschersonia* sp. 4444
- 94090 *Aschersonia* sp. 4445
- 94092 *Aschersonia* sp. 4448
- 94093 *Aschersonia* sp. 4449
- 94094 *Verticillium lecanii* 4457
- 94095 *Verticillium* sp. 4398
- 94096 *Verticillium* sp. 4399
- 94097 *Isaria fumosorosea* 4400
- 94098 *Aschersonia* sp. 4426
- 94102 *Aschersonia* sp. 4430
- 94103 *Aschersonia* sp. 4431
- 94104 *Aschersonia* sp. 4432
- 94151 *Verticillium lecanii* 4453
- 95003 *Metarhizium anisopliae* sensu lato 4901
- 95004 *Metarhizium anisopliae* sensu lato 4902

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95037 *Beauveria bassiana* 4982
95038 *Beauveria bassiana* 4983
95039 *Beauveria bassiana* 4984
95041 *Paecilomyces* sp. 4985
95042 *Paecilomyces* sp. 4986
95043 *Paecilomyces* sp. 4987
95044 *Paecilomyces* sp. 4988
95045 *Paecilomyces* sp. 4989
95070 *Isaria farinosa* 5081
95071 *Isaria fumosorosea* 5122
95072 *Isaria farinosa* 5082
95073 *Isaria farinosa* 5083
95074 *Isaria farinosa* 5084
95075 *Isaria fumosorosea* 5085
95076 *Isaria fumosorosea* 5086
95077 *Isaria fumosorosea* 5087
95078 *Isaria fumosorosea* 5088
95079 *Isaria fumosorosea* 5089
95080 *Isaria fumosorosea* 5090
95081 *Paecilomyces* sp. 5091
95082 *Paecilomyces* sp. 5092
95083 *Paecilomyces* sp. 5093
95084 *Paecilomyces* sp. 5094
95085 *Paecilomyces* sp. 5095
95086 *Paecilomyces* sp. 5096
95087 *Paecilomyces* sp. 5097
95088 *Paecilomyces* sp. 5098
95089 *Paecilomyces* sp. 5099
95090 *Paecilomyces* sp. 5100
95091 *Paecilomyces* sp. 5101
95092 *Paecilomyces* sp. 5102
95093 *Paecilomyces* sp. 5103
95094 *Paecilomyces* sp. 5104
95095 *Paecilomyces* sp. 5105
95096 *Paecilomyces* sp. 5106
95097 *Isaria fumosorosea* 5107
95098 *Paecilomyces* sp. 5108
95099 *Paecilomyces* sp. 5109
95100 *Paecilomyces* sp. 5110
95101 *Paecilomyces* sp. 5111
95102 *Paecilomyces* sp. 5112
95103 *Isaria fumosorosea* 5113
95104 *Paecilomyces* sp. 5114
95105 *Isaria fumosorosea* 5115
95106 *Isaria fumosorosea* 5116
95107 *Isaria fumosorosea* 5117
95108 *Isaria fumosorosea* 5118
95109 *Isaria fumosorosea* 5119
95111 *Isaria fumosorosea* 5121
96009 *Isaria fumosorosea* 4698
992114 *Isaria fumosorosea* 4499
992117 *Isaria fumosorosea* 4501
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Ma17 *Isaria fumosorosea* 3699
Ma17 *Isaria fumosorosea* 4491
Ma18 *Isaria fumosorosea* 3700
Ma18 *Isaria fumosorosea* 4492
Ma19 *Isaria fumosorosea* 4493
Ma20 *Isaria fumosorosea* 4494
Ma21 *Isaria fumosorosea* 4495
Ma22 *Isaria fumosorosea* 4496
Ma27 *Isaria fumosorosea* 4497

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Loch, Luiz

CB-75 *Paecilomyces* sp. 3101

Lomer, Christopher J.

SP-127 *Beauveria bassiana* 10348
SP-128 *Beauveria bassiana* 10349

Lonsdale, David

AH1 *Lecanicillium muscarium* 3740
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AH3 *Verticillium lecanii* 3742
AH4 *Verticillium lecanii* 3743

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880 *Aphanocladium* sp. 8458
883 *Beauveria bassiana* 8459
891 *Beauveria bassiana* 8370
892 *Beauveria bassiana* 8528
893 *Beauveria bassiana* 8529
894 *Beauveria bassiana* 8371
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909 *Metarhizium anisopliae* sensu lato 8377

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CHAMP87, BPLH-2 *Zoophthora radicans* 2551
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10 *Pandora neoaphidis* 3459
102 *Pandora neoaphidis* 636
103 *Pandora neoaphidis* 637
104 *Pandora neoaphidis* 638
105 *Pandora neoaphidis* 639
106 *Conidiobolus thromboides* 630
107 *Conidiobolus thromboides* 631
108 *Conidiobolus thromboides* 635
109 *Conidiobolus thromboides* 633
110 *Conidiobolus thromboides* 632
111 *Conidiobolus thromboides* 634
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170 *Pandora neoaphidis* 1601
172 *Pandora neoaphidis* 1602
178 *Pandora neoaphidis* 1603
18 *Conidiobolus* sp. 3383
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201 *Pandora neoaphidis* 1604
211 *Pandora neoaphidis* 1605
216 *Pandora neoaphidis* 1606
224 *Pandora neoaphidis* 1607
230 *Pandora neoaphidis* 1609
236 *Pandora neoaphidis* 1610
246 *Pandora neoaphidis* 1611
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25-b *Conidiobolus* sp. 3384
251 *Pandora neoaphidis* 1612
257 *Pandora neoaphidis* 1613
263 *Pandora neoaphidis* 1615
269 *Pandora neoaphidis* 1616
275 *Pandora neoaphidis* 1617
28 *Pandora neoaphidis* 3234
32 *Pandora neoaphidis* 3237
34 *Pandora neoaphidis* 1596
37 *Pandora neoaphidis* 1597
37 *Pandora neoaphidis* 3238
40 *Lecanicillium lecanii* 3387
50 *Pandora neoaphidis* 1598
58 *Pandora neoaphidis* 3240
71 *Pandora neoaphidis* 3410
8 *Pandora neoaphidis* 3411
80 *Pandora neoaphidis* 608
81 *Pandora neoaphidis* 609
82 *Pandora neoaphidis* 610
83 *Pandora neoaphidis* 3241
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88 *Pandora neoaphidis* 612
90 *Pandora neoaphidis* 613
91 *Pandora neoaphidis* 614

McGuire, Michael R.

2-10 *Beauveria bassiana* 6660
5-43 *Beauveria bassiana* 6661
85-1(1pass) *Zoophthora radicans* 1938
A *Zoophthora radicans* 1018
B *Zoophthora radicans* 1019
C *Zoophthora radicans* 1261
D *Zoophthora radicans* 1020
E *Zoophthora radicans* 1262
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Dn29.Cont.3p Unidentified / Hyphomycetes 4690
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DnBb203PSS#2 *Beauveria bassiana* 4463
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DnBb25:2882.3Pss#1 *Beauveria bassiana* 4694
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DnBb30:2883.3P *Beauveria bassiana* 4695
DnBb30:3385.3P *Beauveria bassiana* 4696
DnBb30:708.3P *Beauveria bassiana* 4693
DnBb30.252.3P *Beauveria bassiana* 4691
DnBb30.320.3P *Beauveria bassiana* 4692
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DnBbV64.2 2p *Beauveria bassiana* 4977
DnBbV64.3 2p *Beauveria bassiana* 4978
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DnPfu193Pss3 *Isaria fumosorosea* 4461
DnPfu28:2749.3Pss#1 *Isaria fumosorosea* 4700
DnPfu28:3889.3Pss#1 *Isaria fumosorosea* 4701
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25033 *Fusarium subglutinans* 2145
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25084 *Fusarium* sp. 1641
25085 *Fusarium* sp. 1828
25086 *Fusarium* sp. 2232
25088 *Fusarium* sp. 2333
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25103 *Fusarium* sp. 3345
25106 *Fusarium* sp. 3668
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25111 *Fusarium* sp. 3673
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25113 *Fusarium* sp. 3675
25114 *Fusarium* sp. 3676
25115 *Fusarium* sp. 3677
25116 *Fusarium* sp. 3678
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0125 <i>Beauveria bassiana</i> 1527	0193 <i>Pandora neoaphidis</i> 2086	4 <i>Isaria farinosa</i> 3574
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0131B <i>Beauveria bassiana</i> 1538	042 <i>Trichothecium roseum</i> 1212	60 <i>Fusarium</i> sp. 3669
0132 <i>Beauveria bassiana</i> 1539	043 <i>Fusarium</i> sp. 1307	7 <i>Isaria javanica</i> 3577
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0133B <i>Beauveria bassiana</i> 1635	046 <i>Beauveria</i> sp. 1213	8 <i>Isaria farinosa</i> 3578
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0144 <i>Beauveria bassiana</i> 1648	060A <i>Trichothecium</i> sp. 1223	8644 <i>Beauveria bassiana</i> 2320
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0148A <i>Beauveria bassiana</i> 1789	074A <i>Beauveria bassiana</i> 1317	8647 <i>Lecanicillium muscarium</i> 2323
0148B <i>Beauveria bassiana</i> 1790	074B <i>Beauveria bassiana</i> 1318	8648 <i>Lecanicillium aphanocladii</i> 2324
0149 <i>Beauveria bassiana</i> 1791	075 <i>Beauveria bassiana</i> 1395	8650 <i>Lecanicillium muscarium</i> 2326
0150A <i>Beauveria bassiana</i> 1792	076 <i>Beauveria bassiana</i> 1319	8701 <i>Beauveria bassiana</i> 2457
0150B <i>Beauveria bassiana</i> 1793	077A <i>Beauveria bassiana</i> 1396	8702 <i>Beauveria bassiana</i> 2458
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0151 <i>Beauveria bassiana</i> 1795	078 <i>Beauveria bassiana</i> 1320	8706 <i>Beauveria bassiana</i> 2461
0152A <i>Beauveria bassiana</i> 1796	079B <i>Beauveria bassiana</i> 1321	8707 <i>Beauveria bassiana</i> 2462
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0152D <i>Beauveria bassiana</i> 1799	079E <i>Beauveria bassiana</i> 1324	8809C <i>Beauveria bassiana</i> 3155
0154 <i>Beauveria bassiana</i> 1800	079F <i>Beauveria bassiana</i> 1325	8809D <i>Beauveria bassiana</i> 3156
0155 <i>Beauveria bassiana</i> 1801	092A <i>Beauveria bassiana</i> 1404	8809E <i>Beauveria bassiana</i> 3157
	092B <i>Beauveria bassiana</i> 1405	8809G <i>Beauveria bassiana</i> 3158
	093A <i>Beauveria bassiana</i> 1406	88116 <i>Zoophthora radicans</i> 2712
	093B <i>Beauveria bassiana</i> 1407	8812B <i>Zoophthora radicans</i> 3159

8812C *Zoophthora radicans* 3160
8812D *Zoophthora radicans* 2696
8817A *Zoophthora radicans* 3162
8817B *Zoophthora radicans* 2708
8817B *Zoophthora radicans* 3163
8818A *Zoophthora radicans* 2709
8818A *Zoophthora radicans* 3114
8819A *Zoophthora radicans* 3115
8819B *Zoophthora radicans* 3151
8820A *Zoophthora radicans* 2703
8820A *Zoophthora radicans* 3116
8823A *Zoophthora radicans* 2713
8823A *Zoophthora radicans* 3164
8824A *Zoophthora radicans* 3150
8824B *Zoophthora radicans* 2702
8825A *Zoophthora radicans* 2706
8825A *Zoophthora radicans* 3149
8826 *Zoophthora radicans* 2701
8826 *Zoophthora radicans* 3119
8830A *Zoophthora radicans* 3165
8835A *Beauveria bassiana* 3166
8835B *Beauveria bassiana* 3167
8835C *Beauveria bassiana* 3168
8835D *Beauveria bassiana* 3169
8842A *Zoophthora radicans* 3170
8843A *Zoophthora radicans* 2700
8843A *Zoophthora radicans* 3171
8843B *Zoophthora radicans* 3172
8851 *Beauveria bassiana* 3120
8852 *Beauveria pseudobassiana* 3121
8854 (first form) Unidentified sp. 3122
8854 (second form) *Beauveria bassiana* 3215
9 *Isaria farinosa* 3579
9009 Unidentified sp. 3125
9014 *Pandora neoaphidis* 3126
9015 *Pandora neoaphidis* 3174
9016 *Pandora neoaphidis* 3175
9423 *Beauveria bassiana* 5296
9429 *Beauveria bassiana* 5295
9432 *Beauveria bassiana* 5289
9436 *Beauveria bassiana* 5287
9446 *Beauveria bassiana* 5288
9474 *Beauveria bassiana* 5290
9480 *Beauveria bassiana* 5294
9485 *Beauveria bassiana* 5293
9494 *Beauveria bassiana* 5292
9499 *Beauveria bassiana* 5291
TJP927 *Isaria fumosorosea* 5462
TJP928 *Isaria fumosorosea* 5463
TJP929 *Isaria fumosorosea* 5464

Posada, Francisco J.

CEFC F-0001 *Isaria fumosorosea* 6789
CEFC F-0002 *Fusarium* sp. 6790
CEFC V-0002 *Lecanicillium lecanii* 6791
CEFC V-0003 *Lecanicillium muscarium* 6792

PPRI

7041 *Beauveria bassiana* 6968
7042 *Beauveria bassiana* 6969
7043 *Beauveria bassiana* 6970
7061 *Beauveria bassiana* 6978
7062 *Beauveria bassiana* 6979
7064 *Beauveria bassiana* 6980
7068 *Beauveria bassiana* 6982
7071 *Isaria farinosa* 6983
7098 *Purpureocillium lilacinum* 6985

PSU

L-237 *Fusarium lateritium* 2304
M-3856 *Fusarium subglutinans* 2301
R-8540 *Fusarium semitectum* 2299
R-8541 *Fusarium semitectum* 2300

Puerto Rico

04-91 *Cladosporium cladosporioides* 3375

QEC

409.0 *Metarhizium anisopliae* sensu lato 925
410.0 *Metarhizium brunneum* 455
411.0 *Metarhizium anisopliae* sensu lato 456
412.0 *Metarhizium anisopliae* sensu lato 457
413.0 *Metarhizium anisopliae* sensu lato 485
414.0 *Metarhizium anisopliae* sensu lato 486
415.0 *Metarhizium anisopliae* sensu lato 487
416.0 *Metarhizium anisopliae* sensu lato 488
417.0 *Metarhizium anisopliae* sensu lato 489
427.0 *Metarhizium pingshaense* 576
434.0 *Metarhizium anisopliae* sensu lato 1284
435.0 *Metarhizium anisopliae* sensu lato 1285
436.0 *Metarhizium anisopliae* sensu lato 1286
437.0 *Metarhizium anisopliae* sensu lato 1290
438.0 *Metarhizium anisopliae* sensu lato 1300
439.0 *Metarhizium anisopliae* sensu lato 1304

Rangel, Drauzio Eduardo Naretto

CPAC H1 *Simplicillium lanosoniveum* 6430
CPAC H2 *Verticillium lecanii* 6651
CPAC H3 *Simplicillium lanosoniveum* 6431
CPAC H6 *Simplicillium lanosoniveum* 6432
JAB 11 *Isaria fumosorosea* 6434
JAB 12 *Isaria fumosorosea* 6435
JAB 13 *Lecanicillium psalliotae* 6436

RCEF

0200 *Purpureocillium lilacinum* 6247
0243 *Cordyceps* sp. 6281
0244 *Cordyceps* sp. 6349

Reid, William

HWA-3 *Isaria farinosa* 5776

Remaudière, Georges

625 *Zoophthora radicans* 126

Reyes, Enrique Reyes Dominguez

MBCH Unidentified sp. 3806
MBP Unidentified sp. 3805
PF2 Unidentified sp. 3798
PF3 Unidentified sp. 3799
PF4 *Isaria fumosorosea* 3800
PFY Unidentified sp. 3807
SMB1 Unidentified sp. 3801
SMBIII Unidentified sp. 3802

Roberts, Donald W.

(i)I *Metarhizium flavoviride* var. *minus* 1288
020184-2A *Entomophaga* sp. 1126
040485-6 *Hirsutella citriformis* 1913
100881-2 *Trichothecium* sp. 653
100881-4-3 *Pandora delphacis* 664
100981-1 *Pandora delphacis* 716
100981-3 *Pandora delphacis* 673
100981-4 *Pandora delphacis* 674
101081-1 *Pandora delphacis* 686
101081-2-3 *Pandora delphacis* 682
101081-3 *Pandora delphacis* 668
101081-4 *Pandora delphacis* 657
101081-5-3 *Pandora delphacis* 672
101081-6 *Paecilomyces* sp. 680
101081-6-2 *Pandora delphacis* 659
101081-6-2 *Pandora delphacis* 660
101181-4 *Fusarium* sp. 687
101381-1 *Pandora delphacis* 670
101481-4-1 *Beauveria brongniartii* 678
101481-5 *Beauveria amorpha* 656
102081-1 *Beauveria bassiana* 679
102081-2 *Beauveria bassiana* 654
102181-1 *Pandora delphacis* 666
102181-1 *Beauveria bassiana* 714
102181-12 *Zoophthora radicans* 685
102181-2 *Pandora delphacis* 669
102181-4 *Pandora delphacis* 713
102181-5 *Pandora delphacis* 676
102181-6 *Pandora delphacis* 667
102181-9 *Pandora delphacis* 665
102381-2 *Conidiobolus lachnodes* 700
102381-6 *Conidiobolus coronatus* 655
102981-2 *Hirsutella citriformis* 684
110485-2 *Entomophaga* sp. 1881
26102a *Conidiobolus* nr. *coronatus* 1742
26104 *Conidiobolus* nr. *coronatus* 1743
26105 *Pandora delphacis* 1731
26108 *Pandora delphacis* 1730
291001 *Metarhizium anisopliae* sensu lato 1728
291013 *Metarhizium anisopliae* sensu lato 1726
291014 *Metarhizium anisopliae* sensu lato 1744
291015 *Metarhizium anisopliae* sensu lato 1727
291016 *Metarhizium anisopliae* sensu lato 1745
291017 *Metarhizium pingshaense* 1725

29103 *Metarhizium pingshaense* 1724
29103b *Metarhizium anisopliae* sensu lato 1823
2910B *Metarhizium pingshaense* 1729
5A *Metarhizium flavoviride* var. *minus* 1302
81280 *Metarhizium anisopliae* sensu lato 543
81380-4 *Conidiobolus coronatus* 511
82180-13b *Purpureocillium lilacinum* 531
82180-2a *Hirsutella citrififormis* 532
82180-4a *Conidiobolus coronatus* 512
82180-4c *Conidiobolus coronatus* 524
82180-7b *Conidiobolus* sp. 522
82180-7c *Conidiobolus coronatus* 514
82380-19 *Conidiobolus* sp. 517
82380-20 *Conidiobolus coronatus* 520
82380-22 *Conidiobolus coronatus* 523
82880-1 *Tilletiopsis* sp. 573
82880-11 *Conidiobolus coronatus* 525
82880-2 *Tilletiopsis* sp. 527
82880-2 *Tilletiopsis* sp. 572
82980-1 *Conidiobolus coronatus* 528
A *Conidiobolus coronatus* 418
A1 *Metarhizium flavoviride* var. *minus* 1291
A10 *Metarhizium flavoviride* var. *minus* 1303
A8 *Metarhizium flavoviride* var. *minus* 1099
A9 *Metarhizium flavoviride* var. *minus* 1297
B *Conidiobolus coronatus* 419
BPH-10 *Metarhizium flavoviride* var. *minus* 1287
BPH-11 *Metarhizium anisopliae* sensu lato 1290
BPH-12 *Metarhizium anisopliae* sensu lato 1284
BPH-13 *Metarhizium anisopliae* sensu lato 1285
BPH-3[?] *Metarhizium flavoviride* var. *minus* 1294
BPH-3[?] *Metarhizium flavoviride* var. *minus* 1295
BPH-4 *Metarhizium anisopliae* sensu lato 1286
BPH-5 *Metarhizium flavoviride* var. *minus* 1274
BPH-6 *Metarhizium flavoviride* var. *minus* 1296
BPH-7 *Metarhizium flavoviride* var. *minus* 1289
BPH-8 *Metarhizium flavoviride* var. *minus* 1275
Bq *Metarhizium flavoviride* var. *minus* 1272
C *Metarhizium flavoviride* var. *minus* 1292
D *Metarhizium anisopliae* sensu lato 1304
E *Conidiobolus coronatus* 421
F *Conidiobolus coronatus* 422
H *Metarhizium flavoviride* var. *minus* 1293
H.citrif *Hirsutella citrififormis* 1837

I *Metarhizium flavoviride* var. *minus* 1277
IV *Metarhizium flavoviride* var. *minus* 1276
IX *Metarhizium flavoviride* var. *minus* 1279
R *Metarhizium flavoviride* var. *minus* 1305
S *Metarhizium flavoviride* var. *minus* 1271
T2 *Metarhizium flavoviride* var. *minus* 1273
VI *Metarhizium flavoviride* var. *minus* 1301
VII *Metarhizium flavoviride* var. *minus* 1283
VIII *Metarhizium anisopliae* sensu lato 1300

Roberts, Steve

Champ90LH2To(B) *Zoophthora radicans* 3283
Champ90LH2To(E) *Zoophthora radicans* 3284

Rombach, Michiel C.

030786-2 *Hirsutella* sp. 2208
051185-4 *Metarhizium flavoviride* var. *minus* 2037
061185-1 *Metarhizium pingshaense* 2043
070786-5 *Hirsutella* sp. 2209
071185-2 *Hirsutella strigosa* 2044
071185-3 *Fusarium semitectum* 2053
090586-1 *Hirsutella repens* 2348
090586-1 *Hirsutella repens* 2359
090586-1 *Hirsutella repens* 2394
090686-1 *Hirsutella strigosa* 2197
10B *Hirsutella citrififormis* 1436
111286-4 *Hirsutella citrififormis* 2346
120186-2 *Metarhizium flavoviride* var. *minus* 2339
120286-2 *Metarhizium anisopliae* sensu lato 2341
120286-3 *Metarhizium anisopliae* sensu lato 2342
120286-4 *Metarhizium anisopliae* sensu lato 2343
130586-17 *Metarhizium album* 2176
130586-18 Unidentified / *Hyphomycetes* 2177
130586-19 *Metarhizium album* 2178
130586-20 *Metarhizium album* 2179
130586-3 *Isaria fumosorosea* 2175
131286-13 *Aschersonia* sp. 2398
131286-19 *Aschersonia* sp. 2351
131286-19 *Aschersonia* sp. 2397
161085-11 *Torribiella homopterorum* 2045
161085-35 *Metarhizium anisopliae* sensu lato 2038
161085-36 *Metarhizium anisopliae* sensu lato 2039
161285-1 *Isaria fumosorosea* 2198
181286-1B *Hirsutella citrififormis* 2347
190688-1 *Hirsutella verticilliioides* 2599
2 *Calcarisporium ovalisporum* 1907

200386-2 *Metarhizium anisopliae* sensu stricto 2153
201286-2 *Hirsutella guyana* 2352
201286-2 *Hirsutella guyana* 2387
201286-4 *Metarhizium* sp. 2353
201286-8 *Aschersonia insperata* 2356
220386-1 *Aschersonia aleyrodias* 2154
301286-7 *Aschersonia* sp. 2357
301286-8 *Aschersonia* sp. 2358
301286-9 *Aschersonia insperata* 2396
5 *Sporothrix* sp. 1908
B *Metarhizium anisopliae* sensu lato 1432
H.min. *Hirsutella citrififormis* 1549
H.Pal. *Hirsutella citrififormis* 1550
II.1 Sterile mycelium 1435
Lib.11 *Metarhizium flavoviride* var. *minus* 1546
Lib.16 *Metarhizium flavoviride* var. *minus* 1547
Ma Pal.I *Metarhizium anisopliae* sensu lato 1548
Ma Pal.II *Metarhizium pingshaense* 1545
MALBIRRI *Metarhizium flavoviride* var. *minus* 1945
MLAG *Metarhizium album* 1942
MLAGwhite *Metarhizium album* 1943
MPAL *Metarhizium album* 1941

Rong, Isabel

PPRI 6407 *Hirsutella illustris* 5539

Rosenthal, C.

MP1 *Verticillium* sp. 4074

Salinas, J.

F92-6 *Paecilomyces* sp. 3787

Sánchez Peña, Sergio René

T-1 *Aschersonia turbinata* 11868
T-2 *Aschersonia turbinata* 11869
U-1 *Moelleriella umbospora* 11870
U-2 *Moelleriella umbospora* 11871

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10 *Isaria fumosorosea* 5260
100 *Isaria fumosorosea* 5310
101 *Isaria fumosorosea* 5311
102 *Isaria fumosorosea* 5312
103 *Isaria fumosorosea* 5313
104 *Isaria fumosorosea* 5314
105 *Isaria fumosorosea* 5315
106 *Beauveria bassiana* 5275
107 *Beauveria bassiana* 5276
108 *Beauveria bassiana* 5277
11 *Isaria fumosorosea* 5261
110 *Beauveria bassiana* 5278
111 *Beauveria bassiana* 5279
112 *Beauveria bassiana* 5280
118 *Isaria fumosorosea* 5316
119 *Isaria fumosorosea* 5317
12 *Isaria fumosorosea* 5262
120 *Isaria fumosorosea* 5318
121 *Isaria fumosorosea* 5319
122 *Beauveria bassiana* 5281
123 *Beauveria bassiana* 5282
124 *Isaria fumosorosea* 5320
125 *Isaria javanica* 5321

126 *Isaria fumosorosea* 5322
 127 *Isaria fumosorosea* 5323
 128 *Isaria fumosorosea* 5324
 129 *Isaria fumosorosea* 5325
 13 *Isaria fumosorosea* 5263
 130 *Isaria fumosorosea* 5326
 131 *Isaria fumosorosea* 5327
 132 *Isaria fumosorosea* 5328
 133 *Beauveria bassiana* 5283
 133 *Beauveria bassiana* 5283
 134 *Beauveria bassiana* 5284
 14 *Isaria fumosorosea* 5264
 144 *Beauveria bassiana* 5285
 145 *Isaria fumosorosea* 5329
 147 *Isaria fumosorosea* 5330
 149 *Isaria fumosorosea* 5331
 15 *Isaria fumosorosea* 5265
 150 *Fusarium* sp. 5332
 16 *Isaria fumosorosea* 5266
 160 *Beauveria bassiana* 5287
 161 *Beauveria bassiana* 5288
 162 *Beauveria bassiana* 5289
 163 *Beauveria bassiana* 5290
 164 *Beauveria bassiana* 5291
 165 *Beauveria bassiana* 5292
 166 *Beauveria bassiana* 5293
 167 *Beauveria bassiana* 5294
 168 *Beauveria bassiana* 5295
 169 *Beauveria bassiana* 5296
 17 *Isaria fumosorosea* 5267
 18 *Isaria fumosorosea* 5268
 19 *Isaria fumosorosea* 5269
 20 *Isaria fumosorosea* 5270
 21 *Isaria fumosorosea* 5271
 22 *Beauveria bassiana* 5281
 22 *Beauveria bassiana* 5282
 28 *Isaria fumosorosea* 5299
 29 *Isaria fumosorosea* 5300
 30 *Isaria fumosorosea* 5272
 30 *Isaria fumosorosea* 5301
 31 *Isaria fumosorosea* 5302
 33 *Beauveria bassiana* 5274
 34 *Isaria fumosorosea* 5297
 34 *Isaria fumosorosea* 5304
 35 *Isaria fumosorosea* 5298
 35 *Isaria fumosorosea* 5305
 36 *Isaria fumosorosea* 5299
 37 *Isaria fumosorosea* 5300
 38 *Isaria fumosorosea* 5301
 39 *Isaria fumosorosea* 5302
 40 *Isaria fumosorosea* 5303
 41 *Beauveria bassiana* 5274
 42 *Isaria fumosorosea* 5304
 43 *Isaria fumosorosea* 5305
 44 *Isaria farinosa* 5306
 45 *Isaria fumosorosea* 5307
 9 *Isaria javanica* 5259
 98 *Isaria fumosorosea* 5308
 99 *Isaria fumosorosea* 5309

Sewify, Gamal

1 *Gliocladium*(?) sp. 6579
 2 *Verticillium* sp. 6580
 3 *Lecanicillium psalliotae* 6581
 4 *Lecanicillium psalliotae* 6582
 5 *Gliocladium*(?) sp. 6583
 6 *Simplicillium* sp. 6584

Shimazu, Mitsuaki

F-16 *Pandora delphacis* 1124
 F-17 *Zoophthora radicans* 1125
 F-25 *Conidiobolus obscurus* 1131
 F-32 *Pandora delphacis* 1132
 F-33 *Pandora delphacis* 1133
 F-36 *Pandora neoaphidis* 1134
 F-382 *Batkoa apiculata* 1146
 F-43 *Zoophthora radicans* 1136
 F-54 *Pandora neoaphidis* 1137
 F-56 *Pandora delphacis* 1268

Sivcev, Ivan L.

160/85 *Conidiobolus* sp. 2130
 174/85 *Pandora neoaphidis* 2108
 184/85 *Pandora neoaphidis* 2109
 185/85 *Pandora neoaphidis* 2110
 198/85 *Pandora neoaphidis* 2123
 20/86 *Erynia* sp. 2279
 202 Unidentified sp. 1693
 21/85 *Pandora neoaphidis* 2016
 216 Unidentified sp. 1694
 217 *Pandora neoaphidis* 1695
 229/85 *Pandora neoaphidis* 2112
 249/85 *Pandora neoaphidis* 2124
 261/85 *Pandora neoaphidis* 2128
 271 *Pandora neoaphidis* 1786
 271/85 *Pandora neoaphidis* 2114
 278 *Pandora neoaphidis* 1785
 280/85 *Pandora neoaphidis* 2115
 281 *Pandora neoaphidis* 1784
 282/85 *Pandora neoaphidis* 2116
 284/85 *Pandora neoaphidis* 2117
 287 *Lecanicillium lecanii* 1787
 291/85 *Pandora neoaphidis* 2118
 294/85 *Pandora neoaphidis* 2119
 297/85 *Pandora neoaphidis* 2120
 301/85 *Pandora neoaphidis* 2121
 304/85 *Pandora neoaphidis* 2122
 42/86 *Erynia* sp. 2292
 46/86 *Pandora neoaphidis* 2280
 52/86 *Zoophthora phalloides* 2281
 53/86 *Pandora neoaphidis* 2293
 55/85 Unidentified / *Zygomyces* 2022
 55/86 *Erynia* sp. 2294
 63/85 *Pandora neoaphidis* 2019
 65/85 *Pandora neoaphidis* 2020
 74/85 *Pandora neoaphidis* 2017
 76/85 *Pandora neoaphidis* 2018
 F-19 *Pandora neoaphidis* 1825
 F-30 *Pandora neoaphidis* 1827
 F-34 *Pandora neoaphidis* 1826
 R-1 *Pandora neoaphidis* 1696
 V-11 *Pandora neoaphidis* 1824

Skinner, Margaret

Ch:BG:60(5WM) *Hirsutella* sp. 2939
 Ch:BG:61(8WM) *Hirsutella* sp. 2940
 PT-11 *Mariannaea* sp. 2930
 SP-473 *Isaria* sp. 10363
 SP-483 *Beauveria bassiana* 10354
 SP-484 *Isaria* sp. 10365
 SP-487 *Isaria* sp. 10367
 SP-500 *Beauveria bassiana* 10356
 SP-514 *Isaria* sp. 10369
 SP-517 *Isaria* sp. 10372
 SP-520 *Isaria* sp. 10374
 SP-523b *Isaria* sp. 10380
 SP-554 *Beauveria bassiana* 10358
 SP-555 *Isaria* sp. 10382
 SP-567 *Beauveria bassiana* 10360
 SP-570 *Isaria* sp. 10376
 SP-572 *Isaria* sp. 10384
 SP-585 *Beauveria bassiana* 10362

Soares, George G.

1 *Fusarium coccophilum* 821
 3 *Beauveria bassiana* 812
 34 *Beauveria bassiana* 886

Soper, Richard S.

81223-1 *Pandora delphacis* 580
 81223-1 *Entomophaga australiensis* 581
 81225-1 *Hirsutella* sp. 568
 81226-1 *Hirsutella citrififormis* 591
 81226-1 *Conidiobolus* sp. 596
 81226-3 *Beauveria bassiana* 566
 81227-2 *Conidiobolus* sp. 595
 81227-3 *Conidiobolus* nr. *coronatus* 600
 81227-4 *Conidiobolus* nr. *coronatus* 599
 8132 *Beauveria bassiana* 560
 8132-1 *Pandora delphacis* 575
 8132-1 *Pandora delphacis* 579
 8133-1 *Metarhizium pingshaense* 576
 8133-1 *Conidiobolus coronatus* 597
 8133-1 *Conidiobolus* sp. 605
 8133-1 *Conidiobolus* sp. 606
 8133-1/BPH-1 *Conidiobolus* sp. 564
 8133-1/BPH-1 *Conidiobolus coronatus* 565
 8133-1/BPH-2 *Conidiobolus coronatus* 563
 8133-2 *Pandora delphacis* 593
 8133-2 *Conidiobolus* nr. *coronatus* 602
 8133-2 *Pandora delphacis* 603
 8133-2 *Conidiobolus* sp. 604
 8133-3 *Nomuraea rileyi* 558
 8135 *Conidiobolus* nr. *coronatus* 598
 84528-1 *Batkoa major* 1427
 8465-1 *Conidiobolus* sp. 1426
 B *Pandora delphacis* 478
 B *Beauveria bassiana* 1553
 C *Beauveria bassiana* 1554
 D *Beauveria bassiana* 1555
 E *Beauveria bassiana* 1556
 NT-20 *Metarhizium anisopliae* sensu lato 487
 NT-21 *Metarhizium anisopliae* sensu lato 485
 NT-22 *Metarhizium anisopliae* sensu lato 489

NT-24 *Metarhizium anisopliae* sensu lato 488
NT-25 *Metarhizium anisopliae* sensu lato 486
P-38 *Entomophaga australiensis* 328

Sosa-Gómez, Daniel R.

CNPSO-Ma60 *Metarhizium robertsii* 3925
CNPSO-P77 *Isaria fumosorosea* 5154
CNPSO-P78 *Isaria fumosorosea* 5155
CNPSO-P79 *Isaria fumosorosea* 5156
CNPSO-P80 *Isaria fumosorosea* 5157
CNPSO-P81 *Isaria fumosorosea* 5158
CNPSO-P82 *Isaria fumosorosea* 5159
CNPSO-P83 *Paecilomyces* sp. 5160

SRCAMB

B-174 *Beauveria bassiana* 7590
B-175 *Beauveria bassiana* 9443
B-205 *Beauveria bassiana* 7592
B-217 *Metarhizium anisopliae* sensu lato 7644
B-298 *Isaria* sp. 9517
B-298 *Isaria farinosa*(?) 7219
B-322 *Lecanicillium muscarium*(?) 9464
B-410 *Lecanicillium muscarium*(?) 9463
B-413 *Aschersonia aleyrodii* 9535
B-415 *Metarhizium* sp. 7645
B-56 Unidentified / *Hyphomycetes* 7806
B-679 *Isaria farinosa* 9513
VL-1555/2 Unidentified / *Hyphomycetes* 9539
VL-1556/1 *Lecanicillium fungicola* 9482
VL-1632/1 Unidentified / *Hyphomycetes* 9538
VL-1687 *Engyodontium*(?) sp. 9476
VL-1695 *Simplicillium lamellicola* 9481
VL-2011 *Lecanicillium psalliotae* 9474
VL-2049 *Beauveria bassiana* 9451
VL-2061 *Sporothrix ghanensis* 9500
VL-2109 *Lecanicillium* sp. 9466
VL-36 *Beauveria bassiana* 7583
VL-43 *Lecanicillium muscarium* 7633
VL-818 *Purpureocillium lilacinum* 9523
VL-879 *Simplicillium lanosoniveum* 7623
VL-925 *Lecanicillium* sp. 7622

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227 *Verticillium lecanii* 4025
BP2 *Acremonium* sp. 4058
BP4 *Acremonium* sp. 4059
BT10 Unidentified 4068
BT11 *Verticillium lecanii* 4069
BT12 *Verticillium lecanii* 4070
BT13 *Verticillium lecanii* 4071
BT14 *Verticillium lecanii* 4072
BT3 *Verticillium lecanii* 4064
BT4 *Verticillium lecanii* 4065
BT5 *Mixed Culture* sp. 4066
BT5 *Lecanicillium psalliotae* 5582
BT6 *Verticillium lecanii* 4067
MP11 *Verticillium lecanii* 4079
MP2 *Verticillium lecanii* 4075
MP3 *Verticillium lecanii* 4076
MP5 *Verticillium lecanii* 4077
MP6 Unidentified 4078

MP6-9 *Lecanicillium fusisporum* 5583
SSL 449 *Verticillium lecanii* 5854
TT3 *Acremonium psammosporem* 4062
TT4 *Lecanicillium lecanii*(?) 5580
TT4 *Verticillium lecanii* 5709
TT5 *Acremonium* sp. 4063
VL10 *Lecanicillium lecanii*(?) 5581
VL9 *Verticillium lecanii* 4073
VT2 *Lecanicillium lecanii*(?) 4060
VT3 *Verticillium lecanii* 4061

Steinkraus, Donald C.

1 *Pandora neoaphidis* 3248
2 *Pandora neoaphidis* 3249
5 *Pandora neoaphidis* 3250
6 *Pandora neoaphidis* 3251

Stimac, Jerry L.

UF 5781 *Beauveria bassiana* 5978

Sung, Jae-Mo

C-208 *Cordyceps* sp. 4846
C-419 *Polycephalomyces ramosus* 4858
EFCC 1109 *Beauveria bassiana* 7240
EFCC 1929 *Beauveria bassiana* 7246
EFCC 2468 *Beauveria bassiana* 7256
EFCC 2480 *Beauveria bassiana* 7258
EFCC 7270 *Beauveria bassiana* 7273
KEFC-1109 Unidentified / *Hyphomycetes* 5698
KEFC-6240 *Beauveria bassiana* 6722
KEFC-6241 *Beauveria bassiana* 6723

Tiwary, B. N.

IF-1 *Fusarium* sp. 8277
IF-11 *Fusarium* sp. 8282
IF-12 *Fusarium* sp. 8283
IF-14 *Fusarium* sp. 8285
IF-2 *Fusarium* sp. 8278
IF-20 *Fusarium* sp. 8287
IF-5 *Fusarium* sp. 8279
IF-7 *Aspergillus* sp. 8280
SFN-1 *Aspergillus* sp. 8519

Tunali, Berna

11 *Fusarium* sp. 6394
12 *Fusarium* sp. 6395
16 *Fusarium* sp. 6396
17 *Fusarium* sp. 6425
18 *Fusarium* sp. 6397
19 *Fusarium* sp. 6398
20 *Aspergillus* sp. 6399
21 *Fusarium* sp. 6428
22 *Fusarium* sp. 6400
23 *Fusarium* sp. 6401
24 *Fusarium* sp. 6402
25 *Fusarium* sp. 6403
27 *Beauveria bassiana* 6404
28 *Beauveria bassiana* 6426
29 *Aspergillus* sp. 6405
31 *Aspergillus* sp. 6406
32 *Aspergillus niger* 6407
33 *Aspergillus* sp. 6408
34 *Fusarium* sp. 6411
36 *Fusarium* sp. 6409
38 *Fusarium* sp. 6410
39 *Fusarium* sp. 6429

Tzean, S. S.

PPH 13E *Nomuraea cylindrospora* 6926
PPh 14E *Nomuraea viridulus* 6927

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5978 *Hirsutella strigosa* 2044

Ugine, Todd A.

N18 *Beauveria bassiana* 8889
TPB3 *Beauveria bassiana* 8889

Underwood, Nancy

2457 *Beauveria bassiana* 3892
3166 *Beauveria bassiana* 3891
3836 *Lecanicillium lecanii*(?) 3882
3837 *Lecanicillium lecanii*(?) 3883
3839 *Lecanicillium lecanii*(?) 3884
ARSEF2153 *Metarhizium anisopliae* sensu lato 3822
ARSEF2859 *Verticillium lecanii* 3862
ARSEF2862 *Lecanicillium muscarium* 3861
ARSEF3682 *Isaria fumosorosea* 3824
U1555 *Beauveria bassiana* 3906
U2320 *Beauveria bassiana* 3907
U2858 *Verticillium lecanii* 3909
U2882 *Beauveria bassiana* 3905
U3000 *Verticillium lecanii* 3903
U3385 *Beauveria bassiana* 3890
U3836 *Verticillium lecanii* 3881
U3838 *Verticillium lecanii* 3902
U3840 *Verticillium lecanii* 3904
U3908 *Beauveria bassiana* 3908

Vandenberg, John D.

APH3 *Beauveria bassiana* 4523
APH6 *Beauveria bassiana* 4524
DnBb1a3p *Beauveria bassiana* 4113
DnBb1b3p *Beauveria bassiana* 4114
DnBb1c3p *Beauveria bassiana* 4115
DnBb1d3p *Beauveria bassiana* 4116
DnBb1e3p *Beauveria bassiana* 4117
DnBb1f3p *Beauveria bassiana* 4118
DnBb1g3p *Beauveria bassiana* 4119
DnBb1h4p *Beauveria bassiana* 4120
DnBb1j4p *Beauveria bassiana* 4121
DnBb2b2p *Beauveria bassiana* 4110
DnBb2d2p *Beauveria bassiana* 4109
DnBb2e2p *Beauveria bassiana* 4111
DnBb2f2p *Beauveria bassiana* 4112
DnBb2g2p *Beauveria bassiana* 4108
DnBb2h2p *Beauveria bassiana* 4107
DnBb2i3p *Beauveria bassiana* 4106

Wen, Ting-chi

LG-11-35 *Beauveria bassiana* 11712

Wilding, Neil

1 *Conidiobolus thromboides* 101
1 *Conidiobolus thromboides* 1733
10 *Batkoa apiculata* 129
2 *Conidiobolus thromboides* 102
2 *Conidiobolus thromboides* 363
2 *Conidiobolus thromboides* 1734
27 *Zoophthora phalloides* 352
3 *Conidiobolus thromboides* 42
32 *Conidiobolus coronatus* 1738
6 *Conidiobolus obscurus* 97

- 8 *Conidiobolus thromboides* 99
 - 8 *Conidiobolus thromboides* 1735
 - 9 *Conidiobolus thromboides* 100
 - 90 *Conidiobolus obscurus* 1741
- Wright, Stephen P.**
- Paecilomyces* sp. 3787
 - Paecilomyces* sp. 3788
 - 11 *Isaria fumosorosea* 3581
 - 12 *Isaria farinosa* 3582
 - 13 *Isaria farinosa* 3583
 - 14 *Isaria farinosa* 3584
 - 16 *Isaria farinosa* 3585
 - 17 *Isaria farinosa* 3586
 - 18 *Isaria farinosa* 3587
 - 19 *Isaria farinosa* 3588
 - 20 *Isaria farinosa* 3589
 - 252 Bt-2; SPW-43 *Beauveria bassiana* 5276
 - 252-Bt-1 *Beauveria bassiana* 5278
 - 252-Bt-1 *Beauveria bassiana* 5283
 - 252-Bt-1; SPW-42 *Beauveria bassiana* 5275
 - 252-BT-2 *Beauveria bassiana* 5284
 - 252-Bt-3 *Beauveria bassiana* 5279
 - 252-Bt-3; SPW-44 *Beauveria bassiana* 5277
 - 252-BT-4 *Beauveria bassiana* 5280
 - 252-Bt-5 *Beauveria bassiana* 5281
 - 252-Bt-6 *Beauveria bassiana* 5282
 - 252-Bt-x3 *Beauveria bassiana* 5285
 - 3572-Bt-1 *Isaria fumosorosea* 5327
 - 3572-Bt-10 *Isaria fumosorosea* 5317
 - 3572-Bt-11 *Isaria fumosorosea* 5318
 - 3572-Bt-12 *Isaria fumosorosea* 5319
 - 3572-Bt-2 *Isaria fumosorosea* 5328
 - 3572-Bt-9 *Isaria fumosorosea* 5316
 - 3572-Btx3 *Isaria fumosorosea* 5329
 - A-10 *Zoophthora radicans* 1584
 - A-12 *Zoophthora radicans* 1585
 - A-13 *Zoophthora radicans* 1586
 - A-16 *Zoophthora radicans* 1587
 - A-17 *Zoophthora radicans* 1588
 - A-19 *Zoophthora radicans* 1589
 - A-21 *Zoophthora radicans* 1590
 - A-22 *Zoophthora radicans* 1492
 - A-24 *Zoophthora radicans* 1493
 - A-26 *Zoophthora radicans* 1494
 - A-30 *Zoophthora radicans* 1591
 - A-31 *Zoophthora radicans* 1495
 - A-33 *Zoophthora radicans* 1496
 - A-37 *Zoophthora radicans* 1497
 - A-40 *Zoophthora radicans* 1593
 - A-41 *Zoophthora radicans* 1498
 - A-42 *Zoophthora radicans* 1499
 - A-43 *Zoophthora radicans* 1594
 - A-44 *Zoophthora radicans* 1500
 - A-5 *Zoophthora radicans* 1582
 - A-50 *Zoophthora radicans* 1501
 - A-6 *Zoophthora radicans* 1581
 - A-7 *Zoophthora radicans* 1583
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 - A-9 *Zoophthora radicans* 1595
 - A1a *Zoophthora radicans* 1928
 - B-33 *Zoophthora radicans* 1503
 - B-37 *Zoophthora radicans* 1502
 - B-40 *Zoophthora radicans* 1504
 - B-48 *Zoophthora radicans* 1541
 - B-51 *Zoophthora radicans* 1542
 - B1 *Zoophthora radicans* 1929
 - C-1 Topo SP-2 *Zoophthora radicans* 2995
 - C-1 Topo SP-3 *Zoophthora radicans* 2994
 - C-2 Test SP-5 *Zoophthora radicans* 2996
 - ErI11T3 *Zoophthora radicans* 1543
 - F *Zoophthora radicans* 1934
 - F92-2 *Isaria javanica* 3778
 - F92-5 *Paecilomyces* sp. 3772
 - J1 *Zoophthora radicans* 1935
 - K2 *Zoophthora radicans* 1932
 - L2 *Zoophthora radicans* 1930
 - LACEY 921155-BT1 *Isaria fumosorosea* 5299
 - Lacey 92118-Bt1 *Isaria fumosorosea* 5305
 - Lacey 92133-Bt1 *Isaria fumosorosea* 5300
 - Lacey 92135-Bt1 *Isaria fumosorosea* 5304
 - Lacey 92221-Bt1 *Beauveria bassiana* 5274
 - Lacey Ma21-Bt1 *Isaria fumosorosea* 5303
 - M2 *Zoophthora radicans* 1931
 - N1 *Zoophthora radicans* 1933
 - Q1 *Pandora delphacis* 1936
 - SPW-1 *Paecilomyces* sp. 3784
 - SPW-10 *Paecilomyces* sp. 3786
 - SPW-11 *Isaria javanica* 3776
 - SPW-12 *Paecilomyces* sp. 3777
 - SPW-13 Unidentified sp. 3773
 - SPW-14 Unidentified sp. 3779
 - SPW-15 *Isaria javanica* 5259
 - SPW-16 *Isaria fumosorosea* 5260
 - SPW-17 *Isaria fumosorosea* 5261
 - SPW-18 *Isaria fumosorosea* 5262
 - SPW-19 *Isaria fumosorosea* 5263
 - SPW-20 *Isaria fumosorosea* 5264
 - SPW-21 *Isaria fumosorosea* 5265
 - SPW-22 *Isaria fumosorosea* 5266
 - SPW-23 *Isaria fumosorosea* 5267
 - SPW-24 *Isaria fumosorosea* 5268
 - SPW-29 *Isaria fumosorosea* 5269
 - SPW-30 *Isaria fumosorosea* 5270
 - SPW-31 *Isaria fumosorosea* 5271
 - SPW-32 *Isaria farinosa* 5306
 - SPW-34 *Isaria fumosorosea* 5308
 - SPW-35 *Isaria fumosorosea* 5309
 - SPW-36 *Isaria fumosorosea* 5310
 - SPW-37 *Isaria fumosorosea* 5311
 - SPW-38 *Isaria fumosorosea* 5312
 - SPW-39 *Isaria fumosorosea* 5313
 - SPW-40 *Isaria fumosorosea* 5314
 - SPW-41 *Isaria fumosorosea* 5315
 - SPW-5 *Paecilomyces* sp. 3774
 - SPW-5 *Paecilomyces* sp. 3785
 - SPW-50 *Isaria fumosorosea* 5320
 - SPW-51 *Isaria javanica* 5321
 - SPW-52 *Isaria fumosorosea* 5322
 - SPW-53 *Isaria fumosorosea* 5323
 - SPW-54 *Isaria fumosorosea* 5324
 - SPW-55 *Isaria fumosorosea* 5325
 - SPW-56 *Isaria fumosorosea* 5326
 - SPW-6 *Paecilomyces* sp. 3775
 - SPW-7 *Paecilomyces* sp. 3780
 - SPW-8 *Paecilomyces* sp. 3781
 - SPW-9 *Paecilomyces* sp. 3782
 - SPW-9 *Paecilomyces* sp. 3783
 - W3 *Zoophthora radicans* 1937
- Wright, Steve**
- Lacey 92119-Bt1 *Isaria fumosorosea* 5301
 - Lacey Ma19-Bt1 *Isaria fumosorosea* 5302
- Yoder Bros. Inc**
- F2-28 *Isaria farinosa* 2954
 - F2-4 BR *Isaria fumosorosea* 3322
- Zhou, Xiang**
- ZAFU1004 *Pandora neoaphidis* 11662

2	<i>Conidiobolus thromboides</i>	341	<i>Aschersonia aleyrodis</i>	576	<i>Metarhizium pingshaense</i>
15	<i>Conidiobolus thromboides</i>	342	<i>Aschersonia aleyrodis</i>	579	<i>Pandora delphacis</i>
29	<i>Conidiobolus thromboides</i>	343	<i>Aschersonia goldiana</i>	580	<i>Pandora delphacis</i>
39	<i>Conidiobolus thromboides</i>	349	<i>Conidiobolus coronatus</i>	581	<i>Entomophaga australiensis</i>
40	<i>Conidiobolus thromboides</i>	352	<i>Zoopththora phalloides</i>	591	<i>Hirsutella citriformis</i>
41	<i>Conidiobolus thromboides</i>	354	<i>Conidiobolus obscurus</i>	593	<i>Pandora delphacis</i>
42	<i>Conidiobolus thromboides</i>	355	<i>Conidiobolus obscurus</i>	595	<i>Conidiobolus sp.</i>
57	<i>Conidiobolus thromboides</i>	359	<i>Zoopththora radicans</i>	596	<i>Conidiobolus sp.</i>
58	<i>Conidiobolus thromboides</i>	362	<i>Pandora nouri</i>	597	<i>Conidiobolus coronatus</i>
59	<i>Conidiobolus thromboides</i>	363	<i>Conidiobolus thromboides</i>	598	<i>Conidiobolus nr. coronatus</i>
63	<i>Conidiobolus thromboides</i>	365	<i>Entomophaga australiensis</i>	599	<i>Conidiobolus nr. coronatus</i>
67	<i>Batkoa apiculata</i>	366	<i>Pandora nouri</i>	600	<i>Conidiobolus nr. coronatus</i>
73	<i>Conidiobolus thromboides</i>	369	<i>Pandora kondoiensis</i>	602	<i>Conidiobolus nr. coronatus</i>
74	<i>Conidiobolus obscurus</i>	370	<i>Zoopththora radicans</i>	603	<i>Pandora delphacis</i>
75	<i>Zoopththora radicans</i>	374	<i>Massospora cicadina</i>	604	<i>Conidiobolus sp.</i>
78	<i>Pandora neoaphidis</i>	379	<i>Zoopththora radicans</i>	605	<i>Conidiobolus sp.</i>
83	<i>Conidiobolus thromboides</i>	381	<i>Pandora neoaphidis</i>	606	<i>Conidiobolus sp.</i>
97	<i>Conidiobolus obscurus</i>	389	<i>Zoopththora radicans</i>	608	<i>Pandora neoaphidis</i>
99	<i>Conidiobolus thromboides</i>	391	<i>Conidiobolus sp.</i>	609	<i>Pandora neoaphidis</i>
100	<i>Conidiobolus thromboides</i>	394	<i>Furia virescens</i>	610	<i>Pandora neoaphidis</i>
101	<i>Conidiobolus thromboides</i>	405	<i>Conidiobolus coronatus</i>	611	<i>Pandora neoaphidis</i>
102	<i>Conidiobolus thromboides</i>	406	<i>Conidiobolus coronatus</i>	612	<i>Pandora neoaphidis</i>
103	<i>Zoopththora radicans</i>	418	<i>Conidiobolus coronatus</i>	613	<i>Pandora neoaphidis</i>
104	<i>Zoopththora radicans</i>	419	<i>Conidiobolus coronatus</i>	614	<i>Pandora neoaphidis</i>
105	<i>Zoopththora radicans</i>	421	<i>Conidiobolus coronatus</i>	630	<i>Conidiobolus thromboides</i>
106	<i>Zoopththora radicans</i>	422	<i>Conidiobolus coronatus</i>	631	<i>Conidiobolus thromboides</i>
107	<i>Zoopththora radicans</i>	425	<i>Zoopththora aphidis</i>	632	<i>Conidiobolus thromboides</i>
108	<i>Zoopththora radicans</i>	430	<i>Aschersonia aleyrodis</i>	633	<i>Conidiobolus thromboides</i>
109	<i>Zoopththora radicans</i>	432	<i>Aschersonia aleyrodis</i>	634	<i>Conidiobolus thromboides</i>
110	<i>Zoopththora radicans</i>	434	<i>Conidiobolus obscurus</i>	635	<i>Conidiobolus thromboides</i>
111	<i>Zoopththora radicans</i>	455	<i>Metarhizium brunneum</i>	636	<i>Pandora neoaphidis</i>
112	<i>Zoopththora radicans</i>	456	<i>Metarhizium anisopliae sensu lato</i>	637	<i>Pandora neoaphidis</i>
114	<i>Zoopththora radicans</i>	457	<i>Metarhizium anisopliae sensu lato</i>	638	<i>Pandora neoaphidis</i>
115	<i>Conidiobolus thromboides</i>	458	<i>Pandora delphacis</i>	639	<i>Pandora neoaphidis</i>
120	<i>Conidiobolus thromboides</i>	459	<i>Pandora delphacis</i>	649	<i>Conidiobolus thromboides</i>
121	<i>Conidiobolus obscurus</i>	460	<i>Pandora delphacis</i>	653	<i>Trichothecium sp.</i>
122	<i>Conidiobolus obscurus</i>	461	<i>Pandora delphacis</i>	654	<i>Beauveria bassiana</i>
124	<i>Conidiobolus obscurus</i>	477	<i>Beauveria bassiana</i>	655	<i>Conidiobolus coronatus</i>
126	<i>Zoopththora radicans</i>	478	<i>Pandora delphacis</i>	656	<i>Beauveria amorphae</i>
128	<i>Pandora neoaphidis</i>	485	<i>Metarhizium anisopliae sensu lato</i>	657	<i>Pandora delphacis</i>
129	<i>Batkoa apiculata</i>	486	<i>Metarhizium anisopliae sensu lato</i>	659	<i>Pandora delphacis</i>
133	<i>Conidiobolus obscurus</i>	487	<i>Metarhizium anisopliae sensu lato</i>	660	<i>Pandora delphacis</i>
134	<i>Pandora delphacis</i>	488	<i>Metarhizium anisopliae sensu lato</i>	664	<i>Pandora delphacis</i>
139	<i>Zoopththora radicans</i>	489	<i>Metarhizium anisopliae sensu lato</i>	665	<i>Pandora delphacis</i>
174	<i>Batkoa apiculata</i>	490	<i>Hirsutella citriformis</i>	666	<i>Pandora delphacis</i>
181	<i>Pandora neoaphidis</i>	511	<i>Conidiobolus coronatus</i>	667	<i>Pandora delphacis</i>
182	<i>Conidiobolus obscurus</i>	512	<i>Conidiobolus coronatus</i>	668	<i>Pandora delphacis</i>
194	<i>Conidiobolus thromboides</i>	514	<i>Conidiobolus coronatus</i>	669	<i>Pandora delphacis</i>
199	<i>Pandora nouri</i>	517	<i>Conidiobolus sp.</i>	670	<i>Pandora delphacis</i>
204	<i>Lecanicillium muscarium</i>	520	<i>Conidiobolus coronatus</i>	672	<i>Pandora delphacis</i>
207	<i>Zoopththora occidentalis</i>	522	<i>Conidiobolus sp.</i>	673	<i>Pandora delphacis</i>
208	<i>Conidiobolus thromboides</i>	523	<i>Conidiobolus coronatus</i>	674	<i>Pandora delphacis</i>
211	<i>Conidiobolus sp.</i>	524	<i>Conidiobolus coronatus</i>	676	<i>Pandora delphacis</i>
237	<i>Zoopththora radicans</i>	525	<i>Conidiobolus coronatus</i>	678	<i>Beauveria brongniartii</i>
238	<i>Zoopththora radicans</i>	527	<i>Tilletiopsis sp.</i>	679	<i>Beauveria bassiana</i>
239	<i>Zoopththora radicans</i>	528	<i>Conidiobolus coronatus</i>	680	<i>Paecilomyces sp.</i>
242	<i>Conidiobolus thromboides</i>	531	<i>Purpureocillium lilacinum</i>	682	<i>Pandora delphacis</i>
243	<i>Conidiobolus obscurus</i>	532	<i>Hirsutella citriformis</i>	684	<i>Hirsutella citriformis</i>
244	<i>Conidiobolus thromboides</i>	543	<i>Metarhizium anisopliae sensu lato</i>	685	<i>Zoopththora radicans</i>
245	<i>Conidiobolus thromboides</i>	555	<i>Lecanicillium lecanii</i>	686	<i>Pandora delphacis</i>
246	<i>Conidiobolus thromboides</i>	558	<i>Nomuraea rileyi</i>	687	<i>Fusarium sp.</i>
247	<i>Conidiobolus thromboides</i>	560	<i>Beauveria bassiana</i>	698	<i>Pandora delphacis</i>
248	<i>Conidiobolus thromboides</i>	563	<i>Conidiobolus coronatus</i>	700	<i>Conidiobolus lachnodes</i>
249	<i>Conidiobolus thromboides</i>	564	<i>Conidiobolus sp.</i>	708	<i>Beauveria bassiana</i>
250	<i>Conidiobolus thromboides</i>	565	<i>Conidiobolus coronatus</i>	709	<i>Beauveria bassiana</i>
300	<i>Beauveria bassiana</i>	566	<i>Beauveria bassiana</i>	713	<i>Pandora delphacis</i>
320	<i>Beauveria bassiana</i>	568	<i>Hirsutella sp.</i>	714	<i>Beauveria bassiana</i>
321	<i>Lecanicillium longisporum</i>	572	<i>Tilletiopsis sp.</i>	716	<i>Pandora delphacis</i>
328	<i>Entomophaga australiensis</i>	573	<i>Tilletiopsis sp.</i>	717	<i>Beauveria bassiana</i>
331	<i>Entomophaga australiensis</i>	575	<i>Pandora delphacis</i>	719	<i>Beauveria bassiana</i>

729	Metarhizium anisopliae sensu lato	1050	Zoopphthora radicans	1253	Hirsutella citriformis
737	Beauveria bassiana	1054	Beauveria bassiana	1254	Hirsutella citriformis
743	Entomophaga australiensis	1055	Metarhizium anisopliae sensu lato	1255	Hirsutella citriformis
755	Metarhizium anisopliae sensu stricto	1062	Hirsutella citriformis	1256	Hirsutella citriformis
759	Metarhizium anisopliae sensu lato	1063	Hirsutella citriformis	1257	Hirsutella citriformis
763	Purpureocillium lilacinum	1064	Hirsutella citriformis	1258	Hirsutella citriformis
782	Metarhizium anisopliae sensu lato	1096	Hirsutella sp.	1259	Hirsutella citriformis
789	Zoopphthora radicans	1098	Beauveria bassiana	1261	Zoopphthora radicans
790	Zoopphthora radicans	1099	Metarhizium flavoviride var. minus	1262	Zoopphthora radicans
791	Entomophaga australiensis	1124	Pandora delphacis	1263	Zoopphthora radicans
792	Beauveria bassiana	1125	Zoopphthora radicans	1264	Pandora delphacis
798	Metarhizium anisopliae sensu stricto	1126	Entomophaga sp.	1268	Pandora delphacis
800	Zoopphthora radicans	1130	Zoopphthora radicans	1269	Beauveria bassiana
806	Beauveria bassiana	1131	Conidiobolus obscurus	1270	Beauveria bassiana
807	Trichoderma sp.	1132	Pandora delphacis	1271	Metarhizium flavoviride var. minus
812	Beauveria bassiana	1133	Pandora delphacis	1272	Metarhizium flavoviride var. minus
821	Fusarium coccophilum	1134	Pandora neoaphidis	1273	Metarhizium flavoviride var. minus
822	Zoopphthora radicans	1136	Zoopphthora radicans	1274	Metarhizium flavoviride var. minus
823	Zoopphthora radicans	1137	Pandora neoaphidis	1275	Metarhizium flavoviride var. minus
824	Conidiobolus obscurus	1146	Batkoa apiculata	1276	Metarhizium flavoviride var. minus
825	Pandora kondoiensis	1195	Beauveria sp.	1277	Metarhizium flavoviride var. minus
827	Pandora neoaphidis	1196	Beauveria sp.	1279	Metarhizium flavoviride var. minus
828	Pandora kondoiensis	1197	Beauveria sp.	1282	Metarhizium anisopliae sensu lato
829	Pandora neoaphidis	1198	Beauveria sp.	1283	Metarhizium flavoviride var. minus
830	Pandora neoaphidis	1199	Beauveria sp.	1284	Metarhizium anisopliae sensu lato
832	Conidiobolus obscurus	1200	Beauveria sp.	1285	Metarhizium anisopliae sensu lato
833	Pandora neoaphidis	1201	Beauveria sp.	1286	Metarhizium anisopliae sensu lato
834	Conidiobolus obscurus	1202	Beauveria sp.	1287	Metarhizium flavoviride var. minus
835	Pandora neoaphidis	1203	Beauveria sp.	1288	Metarhizium flavoviride var. minus
836	Pandora kondoiensis	1204	Beauveria sp.	1289	Metarhizium flavoviride var. minus
837	Pandora kondoiensis	1205	Beauveria sp.	1290	Metarhizium anisopliae sensu lato
838	Pandora neoaphidis	1206	Beauveria sp.	1291	Metarhizium flavoviride var. minus
839	Batkoa apiculata	1207	Beauveria sp.	1292	Metarhizium flavoviride var. minus
878	Hirsutella guyana	1208	Beauveria sp.	1293	Metarhizium flavoviride var. minus
879	Hirsutella guyana	1209	Beauveria sp.	1294	Metarhizium flavoviride var. minus
881	Hirsutella guyana	1210	Beauveria sp.	1295	Metarhizium anisopliae sensu lato
882	Hirsutella guyana	1211	Beauveria sp.	1296	Metarhizium flavoviride var. minus
883	Hirsutella guyana	1212	Trichothecium roseum	1297	Metarhizium flavoviride var. minus
886	Beauveria bassiana	1213	Beauveria sp.	1299	Metarhizium anisopliae sensu lato
914	Zoopphthora radicans	1214	Beauveria sp.	1300	Metarhizium anisopliae sensu lato
916	Zoopphthora anglica	1215	Beauveria sp.	1301	Metarhizium flavoviride var. minus
923		1216	Beauveria sp.	1302	Metarhizium flavoviride var. minus
925	Metarhizium anisopliae sensu lato	1217	Trichothecium sp.	1303	Metarhizium flavoviride var. minus
926	Zoopphthora anglica	1218	Beauveria sp.	1304	Metarhizium anisopliae sensu lato
933	Beauveria bassiana	1219	Beauveria sp.	1305	Metarhizium flavoviride var. minus
944	Beauveria bassiana	1220	Beauveria sp.	1307	Fusarium sp.
945	Beauveria bassiana	1221	Beauveria sp.	1308	Trichothecium roseum
955	Metarhizium anisopliae sensu lato	1222	Beauveria sp.	1317	Beauveria bassiana
972	Lecanicillium muscarium	1223	Trichothecium sp.	1318	Beauveria bassiana
974	Lecanicillium longisporum	1224	Beauveria sp.	1319	Beauveria bassiana
980	Lecanicillium muscarium	1226	Trichothecium roseum	1320	Beauveria bassiana
992	Aschersonia alejrodis	1227	Zoopphthora radicans	1321	Beauveria bassiana
993	Pandora neoaphidis	1228	Zoopphthora radicans	1322	Beauveria bassiana
997	Conidiobolus coronatus	1229	Zoopphthora radicans	1323	Beauveria bassiana
999	Conidiobolus sp.	1230	Entomophaga sp.	1324	Beauveria bassiana
1006	Conidiobolus thromboides	1231	Zoopphthora radicans	1325	Beauveria bassiana
1018	Zoopphthora radicans	1232	Zoopphthora radicans	1379	Metarhizium anisopliae sensu lato
1019	Zoopphthora radicans	1233	Zoopphthora radicans	1382	Metarhizium anisopliae sensu lato
1020	Zoopphthora radicans	1234	Zoopphthora radicans	1394	Beauveria bassiana
1021	Zoopphthora radicans	1236	Zoopphthora radicans	1395	Beauveria bassiana
1026	Lecanicillium longisporum	1237	Zoopphthora radicans	1396	Beauveria bassiana
1029	Lecanicillium muscarium	1238	Pandora delphacis	1397	Beauveria bassiana
1030	Aschersonia turbinata	1239	Zoopphthora radicans	1404	Beauveria bassiana
1033	Lecanicillium muscarium	1243	Hirsutella citriformis	1405	Beauveria bassiana
1034	Hirsutella versicolor	1244	Hirsutella citriformis	1406	Beauveria bassiana
1035	Hirsutella citriformis	1245	Hirsutella citriformis	1407	Beauveria bassiana
1036	Hirsutella citriformis	1246	Hirsutella citriformis	1408	Beauveria bassiana
1037	Hirsutella versicolor	1249	Hirsutella citriformis	1409	Beauveria bassiana
1044	Metarhizium anisopliae sensu stricto	1251	Hirsutella citriformis	1410	Beauveria bassiana
1045	Metarhizium anisopliae sensu stricto	1252	Hirsutella citriformis	1411	Beauveria bassiana

1412	<i>Beauveria bassiana</i>	1586	<i>Zoophthora radicans</i>	1768	<i>Metarhizium flavoviride</i> var. minus
1413	<i>Beauveria bassiana</i>	1587	<i>Zoophthora radicans</i>	1769	<i>Metarhizium flavoviride</i> var. minus
1414	<i>Beauveria bassiana</i>	1588	<i>Zoophthora radicans</i>	1770	<i>Metarhizium flavoviride</i> var. minus
1423	Unidentified sp.	1589	<i>Zoophthora radicans</i>	1771	<i>Metarhizium flavoviride</i> var. minus
1426	<i>Conidiobolus</i> sp.	1590	<i>Zoophthora radicans</i>	1772	<i>Metarhizium flavoviride</i> var. minus
1427	<i>Batkoa major</i>	1591	<i>Zoophthora radicans</i>	1773	<i>Metarhizium flavoviride</i> var. minus
1432	<i>Metarhizium anisopliae</i> sensu lato	1593	<i>Zoophthora radicans</i>	1774	<i>Lecanicillium muscarium</i>
1435	Sterile mycelium	1594	<i>Zoophthora radicans</i>	1784	<i>Pandora neoaphidis</i>
1436	<i>Hirsutella citriformis</i>	1595	<i>Zoophthora radicans</i>	1785	<i>Pandora neoaphidis</i>
1446	<i>Hirsutella citriformis</i>	1596	<i>Pandora neoaphidis</i>	1786	<i>Pandora neoaphidis</i>
1448	<i>Metarhizium pingshaense</i>	1597	<i>Pandora neoaphidis</i>	1787	<i>Lecanicillium lecanii</i>
1449	<i>Metarhizium anisopliae</i> sensu lato	1598	<i>Pandora neoaphidis</i>	1789	<i>Beauveria bassiana</i>
1457	<i>Beauveria bassiana</i>	1600	<i>Pandora neoaphidis</i>	1790	<i>Beauveria bassiana</i>
1474	<i>Beauveria bassiana</i>	1601	<i>Pandora neoaphidis</i>	1791	<i>Beauveria bassiana</i>
1478	<i>Beauveria bassiana</i>	1602	<i>Pandora neoaphidis</i>	1792	<i>Beauveria bassiana</i>
1492	<i>Zoophthora radicans</i>	1603	<i>Pandora neoaphidis</i>	1793	<i>Beauveria bassiana</i>
1493	<i>Zoophthora radicans</i>	1604	<i>Pandora neoaphidis</i>	1794	<i>Beauveria bassiana</i>
1494	<i>Zoophthora radicans</i>	1605	<i>Pandora neoaphidis</i>	1795	<i>Beauveria bassiana</i>
1495	<i>Zoophthora radicans</i>	1606	<i>Pandora neoaphidis</i>	1796	<i>Beauveria bassiana</i>
1496	<i>Zoophthora radicans</i>	1607	<i>Pandora neoaphidis</i>	1797	<i>Beauveria bassiana</i>
1497	<i>Zoophthora radicans</i>	1609	<i>Pandora neoaphidis</i>	1798	<i>Beauveria bassiana</i>
1498	<i>Zoophthora radicans</i>	1610	<i>Pandora neoaphidis</i>	1799	<i>Beauveria bassiana</i>
1499	<i>Zoophthora radicans</i>	1611	<i>Pandora neoaphidis</i>	1800	<i>Beauveria bassiana</i>
1500	<i>Zoophthora radicans</i>	1612	<i>Pandora neoaphidis</i>	1801	<i>Beauveria bassiana</i>
1501	<i>Zoophthora radicans</i>	1613	<i>Pandora neoaphidis</i>	1802	<i>Beauveria bassiana</i>
1502	<i>Zoophthora radicans</i>	1615	<i>Pandora neoaphidis</i>	1803	<i>Beauveria bassiana</i>
1503	<i>Zoophthora radicans</i>	1616	<i>Pandora neoaphidis</i>	1804	<i>Beauveria bassiana</i>
1504	<i>Zoophthora radicans</i>	1617	<i>Pandora neoaphidis</i>	1805	<i>Beauveria bassiana</i>
1516	<i>Beauveria bassiana</i>	1625	<i>Hirsutella</i> sp.	1806	<i>Beauveria bassiana</i>
1517	<i>Beauveria bassiana</i>	1635	<i>Beauveria bassiana</i>	1807	<i>Beauveria bassiana</i>
1520	<i>Beauveria bassiana</i>	1636	<i>Beauveria bassiana</i>	1808	<i>Beauveria bassiana</i>
1521	<i>Beauveria bassiana</i>	1637	<i>Beauveria bassiana</i>	1809	<i>Beauveria bassiana</i>
1523	<i>Beauveria bassiana</i>	1638	<i>Beauveria bassiana</i>	1810	<i>Beauveria bassiana</i>
1524	<i>Beauveria bassiana</i>	1639	<i>Trichothecium roseum</i>	1812	<i>Beauveria bassiana</i>
1525	<i>Beauveria bassiana</i>	1640	<i>Beauveria bassiana</i>	1813	<i>Beauveria bassiana</i>
1526	<i>Beauveria bassiana</i>	1641	<i>Fusarium</i> sp.	1814	<i>Beauveria bassiana</i>
1527	<i>Beauveria bassiana</i>	1642	<i>Trichothecium roseum</i>	1822	<i>Beauveria bassiana</i>
1528	<i>Beauveria bassiana</i>	1643	<i>Beauveria bassiana</i>	1823	<i>Metarhizium anisopliae</i> sensu lato
1529	<i>Beauveria bassiana</i>	1648	<i>Beauveria bassiana</i>	1824	<i>Pandora neoaphidis</i>
1530	<i>Isaria fumosorosea</i>	1649	<i>Beauveria bassiana</i>	1825	<i>Pandora neoaphidis</i>
1531	<i>Beauveria bassiana</i>	1650	<i>Beauveria bassiana</i>	1826	<i>Pandora neoaphidis</i>
1532	<i>Isaria fumosorosea</i>	1666	<i>Erynia</i> sp.	1827	<i>Pandora neoaphidis</i>
1533	<i>Beauveria bassiana</i>	1668	<i>Hirsutella</i> sp.	1828	<i>Fusarium</i> sp.
1534	<i>Beauveria bassiana</i>	1693	Unidentified sp.	1837	<i>Hirsutella citriformis</i>
1535	<i>Beauveria bassiana</i>	1694	Unidentified sp.	1840	<i>Metarhizium album</i>
1536	<i>Beauveria bassiana</i>	1695	<i>Pandora neoaphidis</i>	1860	<i>Entomophthora chromaphidis</i>
1537	<i>Beauveria bassiana</i>	1696	<i>Pandora neoaphidis</i>	1862	<i>Entomophthora chromaphidis</i>
1538	<i>Beauveria bassiana</i>	1719	<i>Zoophthora radicans</i>	1863	<i>Entomophthora chromaphidis</i>
1539	<i>Beauveria bassiana</i>	1724	<i>Metarhizium pingshaense</i>	1876	<i>Conidiobolus coronatus</i>
1540	<i>Beauveria bassiana</i>	1725	<i>Metarhizium pingshaense</i>	1880	<i>Ophiocordyceps heteropoda</i>
1541	<i>Zoophthora radicans</i>	1726	<i>Metarhizium anisopliae</i> sensu lato	1881	<i>Entomophaga</i> sp.
1542	<i>Zoophthora radicans</i>	1727	<i>Metarhizium anisopliae</i> sensu lato	1882	<i>Metarhizium anisopliae</i> sensu lato
1543	<i>Zoophthora radicans</i>	1728	<i>Metarhizium anisopliae</i> sensu lato	1883	<i>Metarhizium anisopliae</i> sensu stricto
1544	<i>Zoophthora radicans</i>	1729	<i>Metarhizium pingshaense</i>	1890	<i>Metarhizium anisopliae</i> sensu lato
1545	<i>Metarhizium pingshaense</i>	1730	<i>Pandora delphacis</i>	1891	<i>Metarhizium anisopliae</i> sensu lato
1546	<i>Metarhizium flavoviride</i> var. minus	1731	<i>Pandora delphacis</i>	1894	<i>Metarhizium anisopliae</i> sensu stricto
1547	<i>Metarhizium flavoviride</i> var. minus	1733	<i>Conidiobolus thromboides</i>	1895	<i>Metarhizium anisopliae</i> sensu lato
1548	<i>Metarhizium anisopliae</i> sensu lato	1734	<i>Conidiobolus thromboides</i>	1896	<i>Metarhizium anisopliae</i> sensu lato
1549	<i>Hirsutella citriformis</i>	1735	<i>Conidiobolus thromboides</i>	1898	<i>Metarhizium anisopliae</i> sensu lato
1550	<i>Hirsutella citriformis</i>	1738	<i>Conidiobolus coronatus</i>	1899	<i>Metarhizium anisopliae</i> sensu lato
1553	<i>Beauveria bassiana</i>	1741	<i>Conidiobolus obscurus</i>	1900	<i>Metarhizium anisopliae</i> sensu stricto
1554	<i>Beauveria bassiana</i>	1742	<i>Conidiobolus</i> nr. <i>coronatus</i>	1902	<i>Metarhizium anisopliae</i> sensu lato
1555	<i>Beauveria bassiana</i>	1743	<i>Conidiobolus</i> nr. <i>coronatus</i>	1907	<i>Calcarisporium ovalisporum</i>
1556	<i>Beauveria bassiana</i>	1744	<i>Metarhizium anisopliae</i> sensu lato	1908	<i>Sporothrix</i> sp.
1570	<i>Pandora neoaphidis</i>	1745	<i>Metarhizium anisopliae</i> sensu lato	1911	<i>Metarhizium anisopliae</i> sensu lato
1581	<i>Zoophthora radicans</i>	1763	<i>Metarhizium flavoviride</i> var. minus	1912	<i>Metarhizium anisopliae</i> sensu stricto
1582	<i>Zoophthora radicans</i>	1764	<i>Metarhizium flavoviride</i> var. minus	1913	<i>Hirsutella citriformis</i>
1583	<i>Zoophthora radicans</i>	1765	<i>Metarhizium flavoviride</i> var. minus	1917	<i>Hirsutella citriformis</i>
1584	<i>Zoophthora radicans</i>	1766	<i>Metarhizium flavoviride</i> var. minus	1918	<i>Hirsutella citriformis</i>
1585	<i>Zoophthora radicans</i>	1767	<i>Metarhizium flavoviride</i> var. minus	1919	<i>Hirsutella citriformis</i>

1928 Zoophthora radicans	2118 Pandora neoaphidis	2299 Fusarium semitectum
1929 Zoophthora radicans	2119 Pandora neoaphidis	2300 Fusarium semitectum
1930 Zoophthora radicans	2120 Pandora neoaphidis	2301 Fusarium subglutinans
1931 Zoophthora radicans	2121 Pandora neoaphidis	2303 Fusarium sp.
1932 Zoophthora radicans	2122 Pandora neoaphidis	2304 Fusarium lateritium
1933 Zoophthora radicans	2123 Pandora neoaphidis	2318 Beauveria bassiana
1934 Zoophthora radicans	2124 Pandora neoaphidis	2319 Beauveria bassiana
1935 Zoophthora radicans	2128 Pandora neoaphidis	2320 Beauveria bassiana
1936 Pandora delphacis	2130 Conidiobolus sp.	2321 Beauveria bassiana
1937 Zoophthora radicans	2132	2322 Beauveria bassiana
1938 Zoophthora radicans	2143 Fusarium subglutinans	2323 Lecanicillium muscarium
1941 Metarhizium album	2144 Fusarium subglutinans	2324 Lecanicillium aphanocladii
1942 Metarhizium album	2145 Fusarium subglutinans	2325 Lecanicillium muscarium
1943 Metarhizium album	2146	2326 Lecanicillium muscarium
1945 Metarhizium flavoviride var. minus	2147 Conidiobolus sp.	2332 Lecanicillium psalliotae
1952 Metarhizium robertsii	2148 Conidiobolus sp.	2333 Fusarium sp.
1967 Conidiobolus sp.	2149 Lecanicillium lecanii	2334 Lecanicillium muscarium
1970 Metarhizium anisopliae sensu lato	2150 Lecanicillium lecanii	2336 Beauveria bassiana
1973 Beauveria bassiana	2153 Metarhizium anisopliae sensu stricto	2337 Fusarium sp.
1974 Beauveria bassiana	2154 Aschersonia aleyrodis	2339 Metarhizium flavoviride var. minus
1981 Pandora neoaphidis	2164 Beauveria sp.	2341 Metarhizium anisopliae sensu lato
1984 Beauveria bassiana	2175 Isaria fumosorosea	2342 Metarhizium anisopliae sensu lato
1985 Pandora neoaphidis	2176 Metarhizium album	2343 Metarhizium anisopliae sensu lato
1986 Pandora neoaphidis	2177 Unidentified / Hyphomycetes	2346 Hirsutella citriformis
1987 Pandora neoaphidis	2178 Metarhizium album	2347 Hirsutella citriformis
1988 Beauveria bassiana	2179 Metarhizium album	2348 Hirsutella repens
2009 Lecanicillium sp.	2191 Beauveria bassiana	2351 Aschersonia sp.
2011 Beauveria bassiana	2196 Zoophthora radicans	2352 Hirsutella guyana
2016 Pandora neoaphidis	2197 Hirsutella strigosa	2353 Metarhizium sp.
2017 Pandora neoaphidis	2198 Isaria fumosorosea	2356 Aschersonia insperata
2018 Pandora neoaphidis	2208 Hirsutella sp.	2357 Aschersonia sp.
2019 Pandora neoaphidis	2209 Hirsutella sp.	2358 Aschersonia sp.
2020 Pandora neoaphidis	2212 Metarhizium anisopliae sensu lato	2359 Hirsutella repens
2022 Unidentified / Zygomycetes	2213 Metarhizium anisopliae sensu lato	2387 Hirsutella guyana
2028 Pandora delphacis	2214 Metarhizium anisopliae sensu lato	2394 Hirsutella repens
2037 Metarhizium flavoviride var. minus	2215 Purpureocillium lilacinum	2396 Aschersonia insperata
2038 Metarhizium anisopliae sensu lato	2232 Fusarium sp.	2397 Aschersonia sp.
2039 Metarhizium anisopliae sensu lato	2234 Lecanicillium psalliotae	2398 Aschersonia sp.
2043 Metarhizium pingshaense	2235 Lecanicillium psalliotae	2400 Zoophthora radicans
2044 Hirsutella strigosa	2236 Beauveria bassiana	2409 Pandora delphacis
2045 Torrubia homopterorum	2241 Zoophthora radicans	2420 Hirsutella citriformis
2053 Fusarium semitectum	2242 Zoophthora radicans	2421 Metarhizium anisopliae sensu stricto
2074 Fusarium moniliforme	2243 Zoophthora radicans	2422 Hirsutella citriformis
2078 Purpureocillium lilacinum	2244 Zoophthora radicans	2423 Hirsutella citriformis
2080 Metarhizium anisopliae sensu stricto	2245 Zoophthora radicans	2426 Hirsutella citriformis
2081 Metarhizium album	2246 Zoophthora radicans	2427 Beauveria bassiana
2082 Metarhizium album	2247 Isaria fumosorosea	2428 Hirsutella citriformis
2085 Pandora neoaphidis	2256 Zoophthora radicans	2430 Beauveria bassiana
2086 Pandora neoaphidis	2257 Zoophthora radicans	2457 Beauveria bassiana
2091 Pandora delphacis	2258 Zoophthora radicans	2458 Beauveria bassiana
2092 Pandora delphacis	2259 Zoophthora radicans	2460 Lecanicillium longisporum
2093 Pandora delphacis	2260 Zoophthora radicans	2461 Beauveria bassiana
2094 Pandora delphacis	2261 Zoophthora radicans	2462 Beauveria bassiana
2095 Pandora delphacis	2262 Zoophthora radicans	2504 Batkoa apiculata
2096 Pandora delphacis	2268 Aschersonia aleyrodis	2516 Beauveria bassiana
2098 Fusarium coccophillum	2279 Erynia sp.	2517 Metarhizium anisopliae sensu stricto
2099 Hirsutella citriformis	2280 Pandora neoaphidis	2519 Beauveria bassiana
2100 Hirsutella citriformis	2281 Zoophthora phalloides	2521 Metarhizium anisopliae sensu lato
2101 Hirsutella citriformis	2282 Zoophthora radicans	2544 Beauveria bassiana
2102 Hirsutella citriformis	2283 Zoophthora radicans	2549 Zoophthora radicans
2103 Hirsutella citriformis	2284 Zoophthora radicans	2550 Zoophthora radicans
2106 Metarhizium pingshaense	2285 Zoophthora radicans	2551 Zoophthora radicans
2108 Pandora neoaphidis	2286 Zoophthora radicans	2552 Zoophthora radicans
2109 Pandora neoaphidis	2287 Zoophthora radicans	2583 Pandora neoaphidis
2110 Pandora neoaphidis	2288 Zoophthora radicans	2584 Pandora neoaphidis
2112 Pandora neoaphidis	2289 Zoophthora radicans	2585 Pandora neoaphidis
2114 Pandora neoaphidis	2292 Erynia sp.	2587 Pandora neoaphidis
2115 Pandora neoaphidis	2293 Pandora neoaphidis	2588 Pandora neoaphidis
2116 Pandora neoaphidis	2294 Erynia sp.	2589 Pandora neoaphidis
2117 Pandora neoaphidis	2298 Pandora neoaphidis	2591 Pandora neoaphidis

2592	<i>Pandora neoaphidis</i>	2846	<i>Pandora neoaphidis</i>	3019	<i>Beauveria bassiana</i>
2593	<i>Pandora neoaphidis</i>	2847	<i>Pandora neoaphidis</i>	3026	<i>Zoopththora radicans</i>
2594	<i>Pandora neoaphidis</i>	2848	<i>Pandora neoaphidis</i>	3027	<i>Zoopththora occidentalis</i>
2598	<i>Hirsutella citrifomis</i>	2849	<i>Conidiobolus thromboides</i>	3028	<i>Zoopththora occidentalis</i>
2599	<i>Hirsutella verticillioidea</i>	2850	<i>Conidiobolus thromboides</i>	3029	<i>Zoopththora occidentalis</i>
2627	<i>Metarhizium anisopliae sensu stricto</i>	2851	<i>Pandora neoaphidis</i>	3058	<i>Entomophaga praxibuli</i>
2643	<i>Penicillium sp.</i>	2852	<i>Pandora neoaphidis</i>	3062	<i>Pandora delphacis</i>
2644	<i>Hirsutella sp.</i>	2853	<i>Pandora neoaphidis</i>	3071	<i>Zoopththora occidentalis</i>
2645	<i>Hirsutella sp.</i>	2854	<i>Pandora neoaphidis</i>	3072	<i>Pandora delphacis</i>
2646	<i>Hirsutella sp.</i>	2855	<i>Pandora neoaphidis</i>	3073	<i>Zoopththora occidentalis</i>
2647	<i>Hirsutella sp.</i>	2856	<i>Pandora neoaphidis</i>	3076	<i>Isaria fumosorosea</i>
2648	<i>Hirsutella sp.</i>	2858	<i>Lecanicillium muscarium</i>	3080	<i>Batkoa apiculata</i>
2649	<i>Hirsutella sp.</i>	2859	<i>Verticillium lecanii</i>	3081	<i>Pandora neoaphidis</i>
2650	<i>Hirsutella sp.</i>	2860	<i>Beauveria bassiana</i>	3082	<i>Pandora neoaphidis</i>
2651	<i>Hirsutella sp.</i>	2861	<i>Beauveria bassiana</i>	3083	<i>Isaria fumosorosea</i>
2652	<i>Hirsutella sp.</i>	2862	<i>Lecanicillium muscarium</i>	3084	<i>Trichoderma sp.</i>
2653	<i>Hirsutella sp.</i>	2863	<i>Stachybotrys sp.</i>	3086	<i>Beauveria bassiana</i>
2654	<i>Hirsutella sp.</i>	2864	<i>Beauveria bassiana</i>	3088	<i>Batkoa apiculata</i>
2655	<i>Hirsutella sp.</i>	2865	<i>Pandora neoaphidis</i>	3089	<i>Conidiobolus obscurus</i>
2656	<i>Hirsutella sp.</i>	2866	<i>Pandora neoaphidis</i>	3090	<i>Conidiobolus obscurus</i>
2657	<i>Hirsutella sp.</i>	2867	<i>Pandora neoaphidis</i>	3091	<i>Batkoa apiculata</i>
2658	<i>Isaria fumosorosea</i>	2868	<i>Pandora neoaphidis</i>	3092	<i>Conidiobolus obscurus</i>
2659	<i>Lecanicillium muscarium</i>	2870	<i>Pandora neoaphidis</i>	3093	<i>Pandora delphacis</i>
2696	<i>Zoopththora radicans</i>	2872	<i>Pandora neoaphidis</i>	3094	<i>Pandora delphacis</i>
2700	<i>Zoopththora radicans</i>	2873	<i>Pandora neoaphidis</i>	3095	<i>Pandora delphacis</i>
2701	<i>Zoopththora radicans</i>	2874	<i>Pandora neoaphidis</i>	3096	<i>Pandora delphacis</i>
2702	<i>Zoopththora radicans</i>	2875	<i>Pandora neoaphidis</i>	3099	<i>Conidiobolus coronatus</i>
2703	<i>Zoopththora radicans</i>	2876	<i>Pandora neoaphidis</i>	3101	<i>Paecilomyces sp.</i>
2706	<i>Zoopththora radicans</i>	2877	<i>Lecanicillium muscarium</i>	3102	<i>Batkoa major</i>
2708	<i>Zoopththora radicans</i>	2878	<i>Lecanicillium muscarium</i>	3103	<i>Batkoa major</i>
2709	<i>Zoopththora radicans</i>	2879	<i>Beauveria bassiana</i>	3104	<i>Zoopththora radicans</i>
2712	<i>Zoopththora radicans</i>	2880	<i>Beauveria bassiana</i>	3105	<i>Zoopththora radicans</i>
2713	<i>Zoopththora radicans</i>	2881	<i>Beauveria bassiana</i>	3106	<i>Pandora delphacis</i>
2716	<i>Zoopththora radicans</i>	2882	<i>Beauveria bassiana</i>	3107	<i>Pandora delphacis</i>
2717	<i>Zoopththora radicans</i>	2883	<i>Beauveria bassiana</i>	3109	<i>Conidiobolus coronatus</i>
2718	<i>Zoopththora radicans</i>	2913	<i>Pseudogibellula formicarum</i>	3114	<i>Zoopththora radicans</i>
2719	<i>Zoopththora radicans</i>	2914	<i>Conidiobolus thromboides</i>	3115	<i>Zoopththora radicans</i>
2720	<i>Zoopththora radicans</i>	2916	<i>Verticillium lecanii</i>	3116	<i>Zoopththora radicans</i>
2754	<i>Pandora neoaphidis</i>	2923	<i>Lecanicillium muscarium</i>	3119	<i>Zoopththora radicans</i>
2755	<i>Pandora neoaphidis</i>	2930	<i>Mariannaea sp.</i>	3120	<i>Beauveria bassiana</i>
2756	<i>Pandora neoaphidis</i>	2936	<i>Batkoa major</i>	3121	<i>Beauveria pseudobassiana</i>
2757	<i>Pandora neoaphidis</i>	2939	<i>Hirsutella sp.</i>	3122	Unidentified sp.
2758	<i>Pandora neoaphidis</i>	2940	<i>Hirsutella sp.</i>	3125	Unidentified sp.
2760	<i>Pandora neoaphidis</i>	2948	<i>Metarhizium flavoviride 'Type E'</i>	3126	<i>Pandora neoaphidis</i>
2761	<i>Pandora neoaphidis</i>	2954	<i>Isaria farinosa</i>	3128	Unidentified sp.
2762	<i>Pandora neoaphidis</i>	2955	<i>Conidiobolus thromboides</i>	3129	<i>Conidiobolus thromboides</i>
2763	<i>Pandora neoaphidis</i>	2977	<i>Zoopththora radicans</i>	3130	<i>Batkoa apiculata</i>
2766	<i>Pandora neoaphidis</i>	2978	<i>Zoopththora radicans</i>	3131	<i>Batkoa sp.</i>
2767	<i>Pandora neoaphidis</i>	2979	<i>Zoopththora radicans</i>	3132	<i>Conidiobolus obscurus</i>
2768	<i>Pandora neoaphidis</i>	2980	<i>Zoopththora radicans</i>	3133	<i>Conidiobolus obscurus</i>
2769	<i>Pandora neoaphidis</i>	2992	<i>Hirsutella sp.</i>	3134	<i>Conidiobolus obscurus</i>
2773	<i>Pandora neoaphidis</i>	2993	<i>Hirsutella guyana</i>	3135	<i>Conidiobolus obscurus</i>
2781	<i>Pandora neoaphidis</i>	2994	<i>Zoopththora radicans</i>	3136	<i>Batkoa apiculata</i>
2782	<i>Pandora neoaphidis</i>	2995	<i>Zoopththora radicans</i>	3137	<i>Conidiobolus obscurus</i>
2783	<i>Pandora neoaphidis</i>	2996	<i>Zoopththora radicans</i>	3138	<i>Conidiobolus obscurus</i>
2784	<i>Pandora neoaphidis</i>	3000	<i>Lecanicillium muscarium</i>	3139	<i>Conidiobolus obscurus</i>
2811	<i>Zoopththora radicans</i>	3002	<i>Zoopththora radicans</i>	3140	<i>Batkoa apiculata</i>
2812	<i>Conidiobolus coronatus</i>	3003	<i>Zoopththora radicans</i>	3141	<i>Conidiobolus obscurus</i>
2813	<i>Conidiobolus coronatus</i>	3004	<i>Zoopththora radicans</i>	3142	Unidentified / <i>Hyphomycetes</i>
2814	<i>Conidiobolus coronatus</i>	3005	<i>Zoopththora radicans</i>	3147	<i>Metarhizium anisopliae sensu lato</i>
2828	<i>Conidiobolus thromboides</i>	3006	<i>Zoopththora radicans</i>	3149	<i>Zoopththora radicans</i>
2829	<i>Conidiobolus thromboides</i>	3007	<i>Zoopththora radicans</i>	3150	<i>Zoopththora radicans</i>
2837	<i>Pandora neoaphidis</i>	3008	<i>Zoopththora radicans</i>	3151	<i>Zoopththora radicans</i>
2838	<i>Pandora neoaphidis</i>	3009	<i>Zoopththora radicans</i>	3153	<i>Beauveria pseudobassiana</i>
2839	<i>Pandora neoaphidis</i>	3010	<i>Zoopththora radicans</i>	3154	<i>Beauveria bassiana</i>
2840	<i>Pandora neoaphidis</i>	3011	<i>Zoopththora radicans</i>	3155	<i>Beauveria bassiana</i>
2841	<i>Zoopththora occidentalis</i>	3012	<i>Zoopththora radicans</i>	3156	<i>Beauveria bassiana</i>
2842	<i>Pandora neoaphidis</i>	3013	<i>Zoopththora radicans</i>	3157	<i>Beauveria bassiana</i>
2844	<i>Pandora neoaphidis</i>	3014	<i>Aschersonia sp.</i>	3158	<i>Beauveria bassiana</i>
2845	<i>Pandora neoaphidis</i>	3015	<i>Aschersonia sp.</i>	3159	<i>Zoopththora radicans</i>

3160 Zoophthora radicans	3376 Zoophthora radicans	3660 Isaria fumosorosea
3162 Zoophthora radicans	3377 Zoophthora radicans	3661 Isaria farinosa
3163 Zoophthora radicans	3383 Conidiobolus sp.	3662 Isaria fumosorosea
3164 Zoophthora radicans	3384 Conidiobolus sp.	3663 Isaria fumosorosea
3165 Zoophthora radicans	3385 Beauveria bassiana	3668 Fusarium sp.
3166 Beauveria bassiana	3387 Lecanicillium lecanii	3669 Fusarium sp.
3167 Beauveria bassiana	3390 Zoophthora radicans	3670 Fusarium sp.
3168 Beauveria bassiana	3408 Isaria fumosorosea	3671 Fusarium sp.
3169 Beauveria bassiana	3410 Pandora neoaphidis	3672 Fusarium sp.
3170 Zoophthora radicans	3411 Pandora neoaphidis	3673 Fusarium sp.
3171 Zoophthora radicans	3412 Pandora neoaphidis	3674 Fusarium sp.
3172 Zoophthora radicans	3429 Isaria fumosorosea	3675 Fusarium sp.
3174 Pandora neoaphidis	3449 Beauveria bassiana	3676 Fusarium sp.
3175 Pandora neoaphidis	3454 Beauveria bassiana	3677 Fusarium sp.
3215 Beauveria bassiana	3456 Beauveria bassiana	3678 Fusarium sp.
3216 Beauveria pseudobassiana	3458 Isaria fumosorosea	3679 Fusarium sp.
3222 Conidiobolus coronatus	3459 Pandora neoaphidis	3680 Aphanocladium album
3223 Fusarium moniliforme var. inter- medium	3463 Cladosporium cladosporioides	3682 Isaria fumosorosea
3234 Pandora neoaphidis	3464 Lecanicillium muscarium	3683 Lecanicillium lecanii
3237 Pandora neoaphidis	3481 Purpureocillium lilacinum	3684 Lecanicillium muscarium
3238 Pandora neoaphidis	3484 Pandora delphacis	3685 Lecanicillium muscarium
3239 Unidentified sp.	3535 Mucor sp.	3686 Lecanicillium muscarium
3240 Pandora neoaphidis	3536 Unidentified sp.	3687 Lecanicillium muscarium(?)
3241 Pandora neoaphidis	3546 Hirsutella sp.	3688 Lecanicillium lecanii
3248 Pandora neoaphidis	3547 Verticillium sp.	3689 Lecanicillium lecanii(?)
3249 Pandora neoaphidis	3548 Hirsutella sp.	3690 Lecanicillium muscarium
3250 Pandora neoaphidis	3549 Mariannaea sp.	3691 Lecanicillium muscarium
3251 Pandora neoaphidis	3550 Verticillium sp.	3697 Zoophthora radicans
3252 Mariannaea sp.	3551 Verticillium sp.	3698 Aspergillus sp.
3253 Lecanicillium sp.	3552 Verticillium sp.	3699 Isaria fumosorosea
3254 Lecanicillium sp.	3553 Hirsutella sp.	3700 Isaria fumosorosea
3255 Lecanicillium sp.	3554 Mariannaea sp.	3701 Lecanicillium longisporum
3256 Unidentified sp.	3555 Mariannaea sp.	3702 Sterile mycelium
3257 Mariannaea sp.	3556 Verticillium sp.	3703 Sterile mycelium
3258 Mariannaea sp.	3557 Mariannaea sp.	3704 Fusarium sp.
3259 Lecanicillium sp.	3558 Mariannaea sp.	3705 Sterile mycelium
3260 Lecanicillium sp.	3559 Mariannaea sp.	3706 Cladosporium sp.
3261 Mariannaea sp.	3560 Unidentified sp.	3707 Fusarium sp.
3262 Mariannaea sp.	3561 Verticillium sp.	3708 Trichothecium roseum
3263 Mariannaea sp.	3562 Mariannaea sp.	3709 Lecanicillium muscarium
3264 Mariannaea sp.	3563 Mariannaea sp.	3710 Sterile mycelium
3265 Mariannaea sp.	3564 Isaria farinosa	3711 Sterile mycelium
3266 Hirsutella sp.	3570 Unidentified sp.	3712 Sterile mycelium
3267 Mariannaea sp.	3572 Isaria farinosa	3737 Zoophthora radicans
3268 Mariannaea sp.	3573 Isaria javanica	3740 Lecanicillium muscarium
3269 Mariannaea sp.	3574 Isaria farinosa	3741 Verticillium lecanii
3270 Mariannaea sp.	3575 Isaria farinosa	3742 Verticillium lecanii
3283 Zoophthora radicans	3576 Isaria farinosa	3743 Verticillium lecanii
3284 Zoophthora radicans	3577 Isaria javanica	3769 Beauveria bassiana
3303 Isaria javanica	3578 Isaria farinosa	3772 Paecilomyces sp.
3304 Unidentified sp.	3579 Isaria farinosa	3773 Unidentified sp.
3307 Metarhizium anisopliae sensu lato	3580 Isaria farinosa	3774 Paecilomyces sp.
3312 Beauveria bassiana	3581 Isaria fumosorosea	3775 Paecilomyces sp.
3313 Isaria fumosorosea	3582 Isaria farinosa	3776 Isaria javanica
3315 Mariannaea sp.	3583 Isaria farinosa	3777 Paecilomyces sp.
3316 Mariannaea sp.	3584 Isaria farinosa	3778 Isaria javanica
3317 Mariannaea sp.	3585 Isaria farinosa	3779 Unidentified sp.
3318 Hirsutella sp.	3586 Isaria farinosa	3780 Paecilomyces sp.
3319 Unidentified sp.	3587 Isaria farinosa	3781 Paecilomyces sp.
3322 Isaria fumosorosea	3588 Isaria farinosa	3782 Paecilomyces sp.
3324 Lecanicillium muscarium	3589 Isaria farinosa	3783 Paecilomyces sp.
3345 Fusarium sp.	3590 Isaria fumosorosea	3784 Paecilomyces sp.
3355 Zoophthora radicans	3591 Isaria farinosa	3785 Paecilomyces sp.
3365 Pandora neoaphidis	3592 Isaria farinosa	3786 Paecilomyces sp.
3366 Pandora neoaphidis	3593 Isaria farinosa	3787 Paecilomyces sp.
3367 Pandora neoaphidis	3594 Isaria fumosorosea	3788 Paecilomyces sp.
3368 Unidentified sp.	3621 Metarhizium anisopliae sensu stricto	3798 Unidentified sp.
3374 Unidentified sp.	3623 Zoophthora radicans	3799 Unidentified sp.
3375 Cladosporium cladosporioides	3658 Isaria farinosa	3800 Isaria fumosorosea
	3659 Isaria farinosa	3801 Unidentified sp.

3802	Unidentified sp.	4067	Verticillium lecanii	4413	Isaria fumosorosea
3805	Unidentified sp.	4068		4414	Isaria fumosorosea
3806	Unidentified sp.	4069	Verticillium lecanii	4415	Isaria fumosorosea
3807	Unidentified sp.	4070	Verticillium lecanii	4416	Verticillium lecanii
3822	Metarhizium anisopliae sensu lato	4071	Verticillium lecanii	4417	Verticillium lecanii
3824	Isaria fumosorosea	4072	Verticillium lecanii	4418	Verticillium lecanii
3842	Unidentified sp.	4073	Verticillium lecanii	4419	Verticillium lecanii
3843	Isaria fumosorosea	4074	Verticillium sp.	4420	Verticillium lecanii
3844	Unidentified sp.	4075	Verticillium lecanii	4421	Verticillium lecanii
3845	Unidentified sp.	4076	Verticillium lecanii	4422	Verticillium lecanii
3846	Purpureocillium lilacinum	4077	Verticillium lecanii	4423	Verticillium lecanii
3847	Unidentified sp.	4078		4424	Aschersonia sp.
3848	Isaria fumosorosea	4079	Verticillium lecanii	4426	Aschersonia sp.
3849	Unidentified sp.	4091	Beauveria bassiana	4430	Aschersonia sp.
3850	Unidentified sp.	4092	Beauveria bassiana	4431	Aschersonia sp.
3851	Isaria fumosorosea	4093	Beauveria bassiana	4432	Aschersonia sp.
3861	Lecanicillium muscarium	4095	Metarhizium anisopliae sensu lato	4433	Aschersonia sp.
3862	Verticillium lecanii	4099	Beauveria bassiana	4435	Aschersonia sp.
3867	Beauveria bassiana	4100	Beauveria bassiana	4436	Aschersonia sp.
3868	Sterile mycelium	4101	Beauveria bassiana	4437	Aschersonia sp.
3869	Unidentified sp.	4106	Beauveria bassiana	4438	Aschersonia sp.
3870	Paecilomyces sp.	4107	Beauveria bassiana	4439	Aschersonia sp.
3871	Paecilomyces sp.	4108	Beauveria bassiana	4440	Aschersonia sp.
3872	Paecilomyces sp.	4109	Beauveria bassiana	4441	Aschersonia sp.
3873	Paecilomyces sp.	4110	Beauveria bassiana	4442	Aschersonia sp.
3874	Paecilomyces sp.	4111	Beauveria bassiana	4443	Aschersonia sp.
3875	Paecilomyces sp.	4112	Beauveria bassiana	4444	Aschersonia sp.
3876	Unidentified sp.	4113	Beauveria bassiana	4445	Aschersonia sp.
3877	Paecilomyces sp.	4114	Beauveria bassiana	4448	Aschersonia sp.
3878	Isaria fumosorosea	4115	Beauveria bassiana	4449	Aschersonia sp.
3881	Verticillium lecanii	4116	Beauveria bassiana	4453	Verticillium lecanii
3882	Lecanicillium lecanii(?)	4117	Beauveria bassiana	4454	Verticillium lecanii
3883	Lecanicillium lecanii(?)	4118	Beauveria bassiana	4455	Verticillium lecanii
3884	Lecanicillium lecanii(?)	4119	Beauveria bassiana	4456	Verticillium lecanii
3889	Isaria fumosorosea	4120	Beauveria bassiana	4457	Verticillium lecanii
3890	Beauveria bassiana	4121	Beauveria bassiana	4459	Isaria fumosorosea
3891	Beauveria bassiana	4193	Hirsutella sp.	4460	Isaria fumosorosea
3892	Beauveria bassiana	4194	Verticillium sp.	4461	Isaria fumosorosea
3894	Unidentified sp.	4195	Verticillium sp.	4462	Beauveria bassiana
3902	Verticillium lecanii	4200	Beauveria bassiana	4463	Beauveria bassiana
3903	Verticillium lecanii	4201	Unidentified sp.	4464	Beauveria bassiana
3904	Verticillium lecanii	4202	Unidentified sp.	4482	Isaria fumosorosea
3905	Beauveria bassiana	4203	Verticillium sp.	4483	Isaria fumosorosea
3906	Beauveria bassiana	4204	Unidentified sp.	4484	Isaria fumosorosea
3907	Beauveria bassiana	4205	Isaria fumosorosea	4485	Isaria fumosorosea
3908	Beauveria bassiana	4207	Aschersonia sp.	4486	Isaria fumosorosea
3909	Verticillium lecanii	4208	Aschersonia sp.	4490	Isaria fumosorosea
3925	Metarhizium robertsii	4209	Aschersonia aleyrodis	4491	Isaria fumosorosea
3990	Unidentified sp.	4210	Aschersonia sp.	4492	Isaria fumosorosea
3991	Unidentified sp.	4214	Unidentified sp.	4493	Isaria fumosorosea
3992	Unidentified sp.	4215	Unidentified sp.	4494	Isaria fumosorosea
3993	Unidentified sp.	4359	Aspergillus clavatus	4495	Isaria fumosorosea
3994	Unidentified sp.	4360	Colletotrichum gloeosporioides	4496	Isaria fumosorosea
3995	Beauveria bassiana	4361	Cladosporium herbarum	4497	Isaria fumosorosea
3996	Beauveria bassiana	4376	Sterile mycelium	4498	Isaria fumosorosea
3997	Unidentified sp.	4383	Isaria fumosorosea	4499	Isaria fumosorosea
3999	Beauveria bassiana	4398	Verticillium sp.	4501	Isaria fumosorosea
4000	Unidentified sp.	4399	Verticillium sp.	4502	Isaria fumosorosea
4002	Fusarium sp.	4400	Isaria fumosorosea	4503	Isaria fumosorosea
4003	Unidentified sp.	4401	Isaria fumosorosea	4511	Hirsutella sp.
4025	Verticillium lecanii	4402	Verticillium sp.	4512	Hirsutella versicolor
4058	Acremonium sp.	4403	Mixed Culture sp.	4513	Hirsutella sp.
4059	Acremonium sp.	4404	Isaria fumosorosea	4514	Hirsutella sp.
4060	Lecanicillium lecanii(?)	4406	Isaria fumosorosea	4515	Hirsutella sp.
4061	Verticillium lecanii	4407	Isaria fumosorosea	4517	Hirsutella cryptosclerotium
4062	Acremonium psammosporum	4408	Isaria fumosorosea	4520	Zoophthora radicans
4063	Acremonium sp.	4409	Isaria fumosorosea	4523	Beauveria bassiana
4064	Verticillium lecanii	4410	Isaria fumosorosea	4524	Beauveria bassiana
4065	Verticillium lecanii	4411	Isaria fumosorosea	4689	Unidentified / Hyphomycetes
4066	Mixed Culture sp.	4412	Isaria farinosa	4690	Unidentified / Hyphomycetes

4691 Beauveria bassiana	5103 Paecilomyces sp.	5288 Beauveria bassiana
4692 Beauveria bassiana	5104 Paecilomyces sp.	5289 Beauveria bassiana
4693 Beauveria bassiana	5105 Paecilomyces sp.	5290 Beauveria bassiana
4694 Beauveria bassiana	5106 Paecilomyces sp.	5291 Beauveria bassiana
4695 Beauveria bassiana	5107 Isaria fumosorosea	5292 Beauveria bassiana
4696 Beauveria bassiana	5108 Paecilomyces sp.	5293 Beauveria bassiana
4697 Beauveria bassiana	5109 Paecilomyces sp.	5294 Beauveria bassiana
4698 Isaria fumosorosea	5110 Paecilomyces sp.	5295 Beauveria bassiana
4699 Isaria fumosorosea	5111 Paecilomyces sp.	5296 Beauveria bassiana
4700 Isaria fumosorosea	5112 Paecilomyces sp.	5297 Isaria fumosorosea
4701 Isaria fumosorosea	5113 Isaria fumosorosea	5298 Isaria fumosorosea
4702 Isaria fumosorosea	5114 Paecilomyces sp.	5299 Isaria fumosorosea
4703 Isaria fumosorosea	5115 Isaria fumosorosea	5300 Isaria fumosorosea
4704 Isaria fumosorosea	5116 Isaria fumosorosea	5301 Isaria fumosorosea
4705 Isaria fumosorosea	5117 Isaria fumosorosea	5302 Isaria fumosorosea
4706 Isaria fumosorosea	5118 Isaria fumosorosea	5303 Isaria fumosorosea
4707 Isaria fumosorosea	5119 Isaria fumosorosea	5304 Isaria fumosorosea
4708 Isaria fumosorosea	5121 Isaria fumosorosea	5305 Isaria fumosorosea
4709 Isaria fumosorosea	5122 Isaria fumosorosea	5306 Isaria farinosa
4710 Isaria fumosorosea	5126 Lecanicillium longisporum	5307 Isaria fumosorosea
4711 Isaria fumosorosea	5128 Lecanicillium muscarium	5308 Isaria fumosorosea
4712 Sterile mycelium	5130 Verticillium lecanii	5309 Isaria fumosorosea
4713 Fusarium sp.	5131 Verticillium lecanii	5310 Isaria fumosorosea
4714 Fusarium sp.	5153 Verticillium lecanii	5311 Isaria fumosorosea
4715 Fusarium sp.	5154 Isaria fumosorosea	5312 Isaria fumosorosea
4795 Cladosporium sp.	5155 Isaria fumosorosea	5313 Isaria fumosorosea
4846 Cordyceps sp.	5156 Isaria fumosorosea	5314 Isaria fumosorosea
4858 Polyccephalomyces ramosus	5157 Isaria fumosorosea	5315 Isaria fumosorosea
4901 Metarhizium anisopliae sensu lato	5158 Isaria fumosorosea	5316 Isaria fumosorosea
4902 Metarhizium anisopliae sensu lato	5159 Isaria fumosorosea	5317 Isaria fumosorosea
4934 Pandora neoaphidis	5160 Paecilomyces sp.	5318 Isaria fumosorosea
4968 Conidiobolus thromboides	5164 Scopulariopsis sp.	5319 Isaria fumosorosea
4969 Fusarium sp.	5165 Lecanicillium muscarium	5320 Isaria fumosorosea
4970 Unidentified / Zygomycetes	5166 Verticillium lecanii	5321 Isaria javanica
4971 Unidentified / Zygomycetes	5170 Beauveria bassiana	5322 Isaria fumosorosea
4976 Beauveria bassiana	5171 Beauveria bassiana	5323 Isaria fumosorosea
4977 Beauveria bassiana	5176 Trichoderma lignorum	5324 Isaria fumosorosea
4978 Beauveria bassiana	5178 Isaria farinosa	5325 Isaria fumosorosea
4979 Beauveria bassiana	5179 Paecilomyces sp.	5326 Isaria fumosorosea
4981 Beauveria bassiana	5180 Paecilomyces sp.	5327 Isaria fumosorosea
4982 Beauveria bassiana	5215 Aschersonia sp.	5328 Isaria fumosorosea
4983 Beauveria bassiana	5216 Aschersonia sp.	5329 Isaria fumosorosea
4984 Beauveria bassiana	5222 Sporodiniella umbellata	5330 Isaria fumosorosea
4985 Paecilomyces sp.	5259 Isaria javanica	5331 Isaria fumosorosea
4986 Paecilomyces sp.	5260 Isaria fumosorosea	5332 Fusarium sp.
4987 Paecilomyces sp.	5261 Isaria fumosorosea	5371 Pandora neoaphidis
4988 Paecilomyces sp.	5262 Isaria fumosorosea	5372 Pandora neoaphidis
4989 Paecilomyces sp.	5263 Isaria fumosorosea	5373 Pandora neoaphidis
5081 Isaria farinosa	5264 Isaria fumosorosea	5374 Pandora neoaphidis
5082 Isaria farinosa	5265 Isaria fumosorosea	5403 Pandora neoaphidis
5083 Isaria farinosa	5266 Isaria fumosorosea	5404 Conidiobolus sp.
5084 Isaria farinosa	5267 Isaria fumosorosea	5405 Conidiobolus sp.
5085 Isaria fumosorosea	5268 Isaria fumosorosea	5406 Conidiobolus sp.
5086 Isaria fumosorosea	5269 Isaria fumosorosea	5462 Isaria fumosorosea
5087 Isaria fumosorosea	5270 Isaria fumosorosea	5463 Isaria fumosorosea
5088 Isaria fumosorosea	5271 Isaria fumosorosea	5464 Isaria fumosorosea
5089 Isaria fumosorosea	5272 Isaria fumosorosea	5475 Isaria fumosorosea
5090 Isaria fumosorosea	5274 Beauveria bassiana	5476 Isaria fumosorosea
5091 Paecilomyces sp.	5275 Beauveria bassiana	5493 Beauveria bassiana
5092 Paecilomyces sp.	5276 Beauveria bassiana	5494 Beauveria bassiana
5093 Paecilomyces sp.	5277 Beauveria bassiana	5539 Hirsutella illustris
5094 Paecilomyces sp.	5278 Beauveria bassiana	5552 Batkoa apiculata
5095 Paecilomyces sp.	5279 Beauveria bassiana	5580 Lecanicillium lecanii(?)
5096 Paecilomyces sp.	5280 Beauveria bassiana	5581 Lecanicillium lecanii(?)
5097 Paecilomyces sp.	5281 Beauveria bassiana	5582 Lecanicillium psalliotae
5098 Paecilomyces sp.	5282 Beauveria bassiana	5583 Lecanicillium fusisporum
5099 Paecilomyces sp.	5283 Beauveria bassiana	5620 Neozygites parvispora
5100 Paecilomyces sp.	5284 Beauveria bassiana	5621 Neozygites parvispora
5101 Paecilomyces sp.	5285 Beauveria bassiana	5665 Beauveria bassiana
5102 Paecilomyces sp.	5287 Beauveria bassiana	5666 Lecanicillium psalliotae

5674	<i>Beauveria bassiana</i>	5800	<i>Isaria farinosa</i>	6048	<i>Isaria farinosa</i>
5675	<i>Isaria farinosa</i>	5801	<i>Isaria farinosa</i>	6049	<i>Isaria farinosa</i>
5676	<i>Isaria farinosa</i>	5802	<i>Isaria farinosa</i>	6050	<i>Verticillium lecanii</i>
5679	<i>Isaria farinosa</i>	5803	<i>Fusarium</i> sp.	6056	<i>Beauveria bassiana</i>
5680	<i>Fusarium</i> sp.	5808	<i>Beauveria bassiana</i>	6060	<i>Beauveria bassiana</i>
5681	<i>Lecanicillium psalliotae</i>	5809	<i>Verticillium lecanii</i>	6065	<i>Beauveria bassiana</i>
5682	<i>Fusarium</i> sp.	5815	<i>Beauveria bassiana</i> (?)	6066	<i>Beauveria bassiana</i>
5683	<i>Lecanicillium psalliotae</i>	5816	<i>Beauveria bassiana</i> (?)	6067	<i>Beauveria bassiana</i>
5684	<i>Beauveria bassiana</i> (?)	5817	<i>Beauveria bassiana</i> (?)	6068	<i>Verticillium lecanii</i>
5686	<i>Beauveria</i> sp.	5818	<i>Beauveria bassiana</i> (?)	6069	<i>Beauveria bassiana</i>
5687	<i>Verticillium pseudohemipterigenum</i>	5819	Sterile mycelium	6070	<i>Beauveria bassiana</i>
5698	Unidentified / <i>Hyphomycetes</i>	5820	<i>Verticillium lecanii</i>	6071	<i>Lecanicillium psalliotae</i>
5705	<i>Beauveria bassiana</i>	5821	<i>Verticillium lecanii</i>	6072	<i>Beauveria bassiana</i>
5706	<i>Lecanicillium lecanii</i>	5822	<i>Lecanicillium muscarium</i>	6073	<i>Beauveria bassiana</i>
5707	<i>Pandora neoaphidis</i>	5823	<i>Geotrichum</i> (?) sp.	6076	<i>Beauveria bassiana</i>
5708	<i>Pandora neoaphidis</i>	5824	<i>Verticillium lecanii</i>	6079	<i>Beauveria bassiana</i>
5709	<i>Verticillium lecanii</i>	5825	<i>Fusarium</i> sp.	6080	<i>Purpureocillium lilacinum</i>
5721	<i>Aspergillus niger</i>	5826	<i>Isaria farinosa</i>	6081	<i>Purpureocillium lilacinum</i>
5722	<i>Aspergillus ochraceus</i>	5827	<i>Isaria farinosa</i>	6082	<i>Purpureocillium lilacinum</i>
5723		5828	<i>Lecanicillium muscarium</i>	6083	<i>Beauveria bassiana</i>
5724	<i>Beauveria pseudobassiana</i>	5829	<i>Lecanicillium lecanii</i>	6084	<i>Purpureocillium lilacinum</i>
5725	<i>Beauveria bassiana</i>	5830	<i>Isaria farinosa</i>	6085	<i>Verticillium lecanii</i>
5726	<i>Fusarium</i> sp.	5835	<i>Lecanicillium psalliotae</i>	6086	<i>Beauveria bassiana</i>
5727	<i>Fusarium</i> sp.	5854	<i>Verticillium lecanii</i>	6087	<i>Beauveria bassiana</i>
5728	<i>Fusarium</i> sp.	5868	<i>Entomophthora thripidum</i>	6088	<i>Beauveria bassiana</i>
5753	<i>Beauveria bassiana</i>	5978	<i>Beauveria bassiana</i>	6089	<i>Beauveria bassiana</i>
5755	<i>Fusarium</i> sp.	5992	<i>Conidiobolus obscurus</i>	6090	<i>Beauveria bassiana</i>
5756	<i>Aphanocladium album</i>	5993	<i>Conidiobolus osmodes</i> (?)	6091	<i>Beauveria bassiana</i>
5757	<i>Fusarium</i> sp.	5994	<i>Batkoa apiculata</i>	6093	<i>Beauveria bassiana</i>
5758	<i>Cylindrocarpum</i> sp.	5995	<i>Pandora neoaphidis</i>	6094	<i>Purpureocillium lilacinum</i>
5759	<i>Lecanicillium lecanii</i>	6008	<i>Beauveria bassiana</i>	6097	<i>Isaria farinosa</i>
5760	<i>Isaria farinosa</i>	6009	<i>Beauveria bassiana</i>	6098	<i>Isaria farinosa</i>
5761	<i>Isaria farinosa</i>	6010	<i>Lecanicillium lecanii</i>	6114	<i>Purpureocillium lilacinum</i>
5762	<i>Beauveria bassiana</i>	6011	<i>Beauveria bassiana</i>	6115	<i>Beauveria bassiana</i>
5763	<i>Lecanicillium psalliotae</i>	6012	<i>Isaria farinosa</i>	6116	<i>Purpureocillium lilacinum</i>
5765	<i>Pseudogibbellula formicarum</i>	6013	<i>Beauveria bassiana</i>	6117	<i>Purpureocillium lilacinum</i>
5766	<i>Pseudogibbellula formicarum</i>	6014	<i>Beauveria bassiana</i>	6118	<i>Lecanicillium muscarium</i>
5767	<i>Beauveria bassiana</i>	6015	<i>Beauveria pseudobassiana</i>	6119	Unidentified / <i>Zygomycetes</i>
5768	<i>Beauveria bassiana</i>	6016	<i>Beauveria bassiana</i>	6144	<i>Verticillium lecanii</i>
5769	<i>Beauveria bassiana</i>	6017	<i>Isaria farinosa</i>	6145	<i>Verticillium lecanii</i>
5770	<i>Beauveria bassiana</i>	6018	<i>Purpureocillium lilacinum</i>	6149	<i>Beauveria bassiana</i>
5771	<i>Verticillium lecanii</i>	6019	<i>Beauveria bassiana</i>	6157	Unidentified / <i>Zygomycetes</i>
5772	<i>Lecanicillium muscarium</i>	6020	<i>Isaria farinosa</i>	6158	Unidentified / <i>Zygomycetes</i>
5773	<i>Acremonium</i> sp.	6021	<i>Purpureocillium lilacinum</i>	6159	Unidentified / <i>Zygomycetes</i>
5774	<i>Isaria farinosa</i>	6022	<i>Beauveria pseudobassiana</i>	6160	Unidentified / <i>Zygomycetes</i>
5775	<i>Isaria farinosa</i>	6023	<i>Beauveria brongniartii</i>	6166	<i>Pandora neoaphidis</i>
5776	<i>Isaria farinosa</i>	6024	<i>Purpureocillium lilacinum</i>	6222	<i>Isaria farinosa</i>
5777	<i>Lecanicillium muscarium</i> (?)	6025	<i>Verticillium lecanii</i>	6225	<i>Fusarium</i> sp.
5778	<i>Lecanicillium muscarium</i>	6026	<i>Purpureocillium lilacinum</i>	6247	<i>Purpureocillium lilacinum</i>
5779	<i>Lecanicillium muscarium</i>	6027	<i>Beauveria bassiana</i>	6251	<i>Entomophthora planchoniana</i>
5780	<i>Lecanicillium muscarium</i>	6028	<i>Isaria farinosa</i>	6252	<i>Entomophthora planchoniana</i>
5781	<i>Verticillium lecanii</i>	6029	<i>Isaria farinosa</i>	6281	<i>Cordyceps</i> sp.
5782	<i>Lecanicillium muscarium</i>	6030	<i>Isaria farinosa</i>	6287	<i>Verticillium lecanii</i>
5783	<i>Verticillium lecanii</i>	6031	<i>Isaria farinosa</i>	6288	<i>Isaria farinosa</i>
5784	<i>Isaria farinosa</i>	6032	<i>Isaria farinosa</i>	6289	<i>Lecanicillium lecanii</i> (?)
5785	<i>Lecanicillium lecanii</i>	6033	<i>Isaria farinosa</i>	6290	<i>Verticillium lecanii</i>
5786	<i>Verticillium lecanii</i>	6034	<i>Isaria farinosa</i>	6291	<i>Verticillium lecanii</i>
5787	<i>Lecanicillium lecanii</i>	6035	<i>Lecanicillium muscarium</i>	6317	<i>Metarhizium anisopliae</i> sensu stricto
5788	<i>Isaria farinosa</i>	6036	<i>Isaria farinosa</i>	6318	<i>Metarhizium anisopliae</i> sensu stricto
5789	<i>Verticillium lecanii</i>	6037	<i>Isaria farinosa</i>	6319	<i>Metarhizium anisopliae</i> sensu lato
5790	<i>Isaria farinosa</i>	6038	<i>Isaria farinosa</i>	6320	<i>Fusarium</i> sp.
5791	<i>Lecanicillium muscarium</i>	6039	<i>Beauveria bassiana</i>	6321	<i>Metarhizium anisopliae</i> sensu lato
5792	<i>Isaria farinosa</i>	6040	<i>Beauveria bassiana</i>	6322	<i>Metarhizium anisopliae</i> sensu lato
5793	<i>Verticillium lecanii</i>	6041	<i>Beauveria bassiana</i>	6323	<i>Metarhizium anisopliae</i> sensu lato
5794	<i>Lecanicillium lecanii</i>	6042	<i>Beauveria bassiana</i>	6340	<i>Purpureocillium lilacinum</i>
5795	<i>Lecanicillium muscarium</i>	6043	<i>Beauveria pseudobassiana</i>	6342	<i>Metarhizium anisopliae</i> sensu lato
5796	<i>Beauveria bassiana</i>	6044	<i>Isaria farinosa</i>	6343	<i>Metarhizium anisopliae</i> sensu lato
5797	<i>Isaria farinosa</i>	6045	<i>Verticillium lecanii</i>	6344	<i>Trichoderma viride</i> (?)
5798	<i>Lecanicillium muscarium</i>	6046	<i>Verticillium lecanii</i>	6345	<i>Metarhizium anisopliae</i> sensu lato
5799	<i>Isaria farinosa</i>	6047	<i>Verticillium lecanii</i>	6346	<i>Metarhizium anisopliae</i> sensu lato

6347 Metarhizium anisopliae sensu stricto	6502 Purpureocillium lilacinum	6916 Isaria fumosorosea
6348 Fusarium sp.	6503 Unidentified / Hyphomycetes	6920 Beauveria bassiana
6349 Cordyceps sp.	6504 Unidentified / Hyphomycetes	6921 Beauveria bassiana
6351 Fusarium sp.	6507 Unidentified / Zygomycetes	6922 Beauveria bassiana
6352 Fusarium sp.	6508 Unidentified / Zygomycetes	6923 Beauveria bassiana
6353 Fusarium sp.	6509 Unidentified / Zygomycetes	6924 Beauveria bassiana
6354 Fusarium sp.	6510 Unidentified / Zygomycetes	6925 Isaria sinclairii
6355 Fusarium oxysporum(?)	6511 Unidentified / Zygomycetes	6926 Nomuraea cylindrospora
6356 Metarhizium anisopliae sensu lato	6512 Conidiobolus coronatus	6927 Nomuraea viridulus
6357 Penicillium sp.	6517 Entomophthora thripidum	6968 Beauveria bassiana
6358 Fusarium sp.	6518 Entomophthora thripidum	6969 Beauveria bassiana
6359 Penicillium sp.	6519 Entomophthora thripidum	6970 Beauveria bassiana
6367 Curvularia sp.	6520 Entomophthora thripidum	6978 Beauveria bassiana
6369 Aspergillus sp.	6521 Entomophthora thripidum	6979 Beauveria bassiana
6370 Unidentified sp.	6522 Entomophthora thripidum	6980 Beauveria bassiana
6372 Dactylella sp.	6525 Entomophthora thripidum	6982 Beauveria bassiana
6375 Fusarium sp.	6538 Pandora delphacis	6983 Isaria farinosa
6394 Fusarium sp.	6539 Pandora delphacis	6985 Purpureocillium lilacinum
6395 Fusarium sp.	6540 Verticillium lecanii	7028 Isaria poprawskii
6396 Fusarium sp.	6541 Verticillium lecanii	7031 Acremonium(?) sp.
6397 Fusarium sp.	6542 Verticillium lecanii	7032 Beauveria kipukae
6398 Fusarium sp.	6543 Verticillium lecanii	7033 Cladosporium cladosporioides(?)
6399 Aspergillus sp.	6544 Verticillium lecanii	7034 Lecanicillium muscarium
6400 Fusarium sp.	6547 Verticillium lecanii	7035 Cladosporium sp.
6401 Fusarium sp.	6548 Verticillium lecanii	7036 Acremonium(?) sp.
6402 Fusarium sp.	6562 Isaria fumosorosea	7037 Lecanicillium muscarium
6403 Fusarium sp.	6569 Metarhizium flavoviride var. pemphigum	7038 Sporothrix sp.
6404 Beauveria bassiana	6570 Metarhizium anisopliae sensu lato	7039 Cladosporium sp.
6405 Aspergillus sp.	6576 Fusarium sp.	7042 Sporothrix sp.
6406 Aspergillus sp.	6579 Gliocladium(?) sp.	7050 Isaria fumosorosea
6407 Aspergillus niger	6580 Verticillium sp.	7051 Isaria fumosorosea
6408 Aspergillus sp.	6581 Lecanicillium psalliotae	7067 Unidentified / Hyphomycetes
6409 Fusarium sp.	6582 Lecanicillium psalliotae	7070 Unidentified sp.
6410 Fusarium sp.	6583 Gliocladium(?) sp.	7075 Paecilomyces sp.
6411 Fusarium sp.	6584 Simplicillium sp.	7076 Unidentified / Hyphomycetes
6425 Fusarium sp.	6605 Zoophthora radicans	7081 Unidentified / Hyphomycetes
6426 Beauveria bassiana	6606 Verticillium lecanii	7085 Aschersonia sp.
6428 Fusarium sp.	6607 Isaria farinosa	7086 Unidentified / Hyphomycetes
6429 Fusarium sp.	6608 Beauveria bassiana(?)	7147 Beauveria bassiana
6430 Simplicillium lanosoniveum	6609 Isaria farinosa	7200 Clonostachys rosea
6431 Simplicillium lanosoniveum	6631 Pandora neoaphidis	7203 Conidiobolus coronatus
6432 Simplicillium lanosoniveum	6634 Tolypocladium sp.	7204 Isaria fumosorosea
6434 Isaria fumosorosea	6635 Evlachovaea sp.	7205 Isaria fumosorosea
6435 Isaria fumosorosea	6636 Simplicillium lanosoniveum	7206 Lecanicillium longisporum
6436 Lecanicillium psalliotae	6637 Simplicillium lanosoniveum	7207 Lecanicillium lecanii
6457 Metarhizium anisopliae sensu lato	6638 Evlachovaea sp.	7208 Zoophthora radicans
6458 Paecilomyces lilacinus(?)	6639 Evlachovaea sp.	7209 Conidiobolus thromboides
6459 Beauveria bassiana	6640 Evlachovaea sp.	7210 Conidiobolus thromboides
6460 Fusarium sp.	6641 Evlachovaea sp.	7211 Conidiobolus thromboides
6461 Fusarium sp.	6642 Simplicillium lanosoniveum	7212 Pandora neoaphidis
6462 Paecilomyces crustaceus(?)	6651 Verticillium lecanii	7213 Pandora neoaphidis
6463 Unidentified sp.	6659 Conidiobolus sp.	7214 Pandora neoaphidis
6464 Fusarium sp.	6660 Beauveria bassiana	7219 Isaria farinosa(?)
6465 Fusarium sp.	6661 Beauveria bassiana	7226 Pandora neoaphidis
6466 Unidentified sp.	6662 Conidiobolus thromboides	7232 Torribiella piperis
6467 Paecilomyces crustaceus(?)	6722 Beauveria bassiana	7233 Fusarium sp.
6468 Metarhizium anisopliae sensu lato	6723 Beauveria bassiana	7240 Beauveria bassiana
6473 Septobasidium carestianum	6789 Isaria fumosorosea	7246 Beauveria bassiana
6479 Verticillium lecanii	6790 Fusarium sp.	7256 Beauveria bassiana
6480 Verticillium sp.	6791 Lecanicillium lecanii	7258 Beauveria bassiana
6481 Isaria farinosa	6792 Lecanicillium muscarium	7273 Beauveria bassiana
6485 Verticillium sp.	6797 Isaria fumosorosea	7354 Ascopolyporus philodendrus
6490 Isaria farinosa	6798 Isaria fumosorosea	7355 Ascopolyporus villosus
6493 Isaria farinosa	6886 Lecanicillium lecanii	7369
6494 Purpureocillium lilacinum	6887 Lecanicillium lecanii	7375 Lecanicillium muscarium
6495 Isaria farinosa	6888 Lecanicillium lecanii	7376 Beauveria brongniartii
6496 Isaria farinosa	6902 Pandora neoaphidis	7381 Fusarium sp.
6497 Isaria farinosa	6914 Lecanicillium muscarium	7383 Unidentified / Hyphomycetes
6498 Verticillium sp.	6915 Lecanicillium lecanii	7386 Unidentified / Hyphomycetes
6500 Verticillium sp.		7390 Aschersonia rhombispora

7391	<i>Aschersonia andropogonis</i>	8277	<i>Fusarium</i> sp.	9180	<i>Hirsutella citriformis</i>
7392	Unidentified / <i>Hyphomycetes</i>	8278	<i>Fusarium</i> sp.	9266	<i>Pandora heteropterae</i>
7408	<i>Lecanicillium lecanii</i>	8279	<i>Fusarium</i> sp.	9360	<i>Eurotiomycetes</i> , genus undetermined
7409	<i>Fusarium coccophilum</i>	8280	<i>Aspergillus</i> sp.	9361	<i>Eurotiomycetes</i> , genus undetermined
7454	<i>Zoopthora</i> sp.	8282	<i>Fusarium</i> sp.	9362	<i>Exophiala</i> sp.
7455	<i>Zoopthora radicans</i>	8283	<i>Fusarium</i> sp.	9363	<i>Tripaspermum</i> sp.
7457	<i>Lecanicillium longisporum</i>	8285	<i>Fusarium</i> sp.	9364	Unidentified / <i>Hyphomycetes</i>
7458	<i>Lecanicillium longisporum</i>	8287	<i>Fusarium</i> sp.	9365	<i>Rhinocladiella</i> (?) sp.
7459	<i>Lecanicillium longisporum</i>	8315	<i>Hirsutella citriformis</i>	9366	Unidentified / <i>Hyphomycetes</i>
7460	<i>Lecanicillium muscarium</i>	8316	<i>Paecilomyces</i> sp.	9367	<i>Doratomyces</i> (?) sp.
7461	<i>Lecanicillium longisporum</i>	8317	<i>Beauveria bassiana</i>	9368	<i>Acremonium</i> (?) sp.
7462	<i>Lecanicillium lecanii</i>	8318	<i>Beauveria bassiana</i>	9369	<i>Lecanicillium</i> (?) sp.
7464	<i>Beauveria bassiana</i>	8361	<i>Hypocrella panamensis</i>	9375	<i>Aspergillus clavatus</i>
7465	<i>Beauveria bassiana</i>	8370	<i>Beauveria bassiana</i>	9376	<i>Aspergillus flavus</i>
7467	<i>Beauveria bassiana</i>	8371	<i>Beauveria bassiana</i>	9377	<i>Fusarium</i> sp.
7468	<i>Beauveria bassiana</i>	8376	<i>Metarhizium anisopliae</i> sensu lato	9443	<i>Beauveria bassiana</i>
7469	<i>Beauveria bassiana</i>	8377	<i>Metarhizium anisopliae</i> sensu lato	9451	<i>Beauveria bassiana</i>
7472	<i>Clonostachys rosea</i>	8378	<i>Hirsutella</i> sp.	9463	<i>Lecanicillium muscarium</i> (?)
7473	<i>Fusarium</i> sp.	8457	<i>Aphanocladium</i> sp.	9464	<i>Lecanicillium muscarium</i> (?)
7474	<i>Metarhizium anisopliae</i> sensu lato	8458	<i>Aphanocladium</i> sp.	9466	<i>Lecanicillium</i> sp.
7475	<i>Metarhizium anisopliae</i> sensu lato	8459	<i>Beauveria bassiana</i>	9474	<i>Lecanicillium psalliotae</i>
7476	<i>Metarhizium anisopliae</i> sensu lato	8460	<i>Beauveria bassiana</i>	9476	<i>Engyodontium</i> (?) sp.
7477	<i>Isaria javanica</i>	8498	<i>Metarhizium anisopliae</i> sensu lato	9481	<i>Simplicillium lamellicola</i>
7478	<i>Purpureocillium lilacinum</i>	8519	<i>Aspergillus</i> sp.	9482	<i>Lecanicillium fungicola</i>
7491	<i>Metarhizium flavoviride</i> var. <i>pemphigum</i>	8527	<i>Metarhizium anisopliae</i> sensu lato	9500	<i>Sporothrix ghanensis</i>
7530	<i>Lecanicillium lecanii</i>	8528	<i>Beauveria bassiana</i>	9513	<i>Isaria farinosa</i>
7550	<i>Lecanicillium lecanii</i>	8529	<i>Beauveria bassiana</i>	9517	<i>Isaria</i> sp.
7583	<i>Beauveria bassiana</i>	8607	<i>Pandora neoaphidis</i>	9523	<i>Purpureocillium lilacinum</i>
7590	<i>Beauveria bassiana</i>	8637	<i>Beauveria bassiana</i>	9535	<i>Aschersonia aleyrodis</i>
7592	<i>Beauveria bassiana</i>	8638	<i>Beauveria bassiana</i>	9538	Unidentified / <i>Hyphomycetes</i>
7603	<i>Aschersonia placenta</i>	8639	<i>Lecanicillium</i> sp.	9539	Unidentified / <i>Hyphomycetes</i>
7604	<i>Aschersonia placenta</i>	8640	Unidentified / <i>Hyphomycetes</i>	9587	<i>Beauveria bassiana</i>
7605	<i>Hypocrella javanica</i>	8676	<i>Metarhiziopsis microspora</i>	9588	<i>Beauveria bassiana</i>
7606	<i>Hypocrella raciborskii</i>	8706	<i>Beauveria bassiana</i>	9590	<i>Metarhizium anisopliae</i> sensu lato
7622	<i>Lecanicillium</i> sp.	8710	<i>Beauveria bassiana</i>	9591	<i>Metarhizium anisopliae</i> sensu lato
7623	<i>Simplicillium lanosoniveum</i>	8711	<i>Beauveria bassiana</i>	9604	<i>Purpureocillium lilacinum</i>
7633	<i>Lecanicillium muscarium</i>	8714	<i>Lecanicillium muscarium</i>	9605	<i>Hirsutella</i> sp.
7644	<i>Metarhizium anisopliae</i> sensu lato	8716	<i>Isaria fumosorosea</i>	9606	<i>Hirsutella</i> sp.
7645	<i>Metarhizium</i> sp.	8717	<i>Isaria fumosorosea</i>	9610	<i>Purpureocillium lilacinum</i>
7681	<i>Hypocrella discoidea</i>	8718	<i>Isaria fumosorosea</i>	9611	<i>Lecanicillium aphanocladii</i>
7776	<i>Beauveria bassiana</i>	8719	<i>Isaria fumosorosea</i>	9612	<i>Metarhizium anisopliae</i> sensu lato
7781	<i>Lecanicillium muscarium</i>	8720	<i>Isaria fumosorosea</i>	9613	<i>Metarhizium anisopliae</i> sensu lato
7782	<i>Lecanicillium muscarium</i>	8721	<i>Isaria fumosorosea</i>	9614	<i>Cladosporium cladosporioides</i>
7783	<i>Lecanicillium longisporum</i>	8723	<i>Isaria fumosorosea</i>	9914	<i>Conidiobolus coronatus</i>
7784	<i>Lecanicillium longisporum</i>	8724	<i>Isaria fumosorosea</i>	9915	<i>Myriangium</i> sp.
7785	<i>Lecanicillium muscarium</i>	8725	<i>Isaria fumosorosea</i>	9916	<i>Myriangium</i> sp.
7786	<i>Conidiobolus</i> sp.	8726	<i>Isaria fumosorosea</i>	9917	<i>Myriangium</i> sp.
7788	<i>Zoopthora radicans</i>	8727	<i>Isaria fumosorosea</i>	9918	<i>Myriangium</i> sp.
7789	<i>Zoopthora radicans</i>	8728	<i>Isaria fumosorosea</i>	9919	<i>Myriangium</i> sp.
7806	Unidentified / <i>Hyphomycetes</i>	8729	<i>Isaria fumosorosea</i>	9920	<i>Phoma</i> sp.
7923	<i>Lecanicillium longisporum</i>	8730	<i>Isaria fumosorosea</i>	9921	Unidentified sp.
7937	<i>Pandora neoaphidis</i>	8825	<i>Scopulariopsis</i> sp.	9922	<i>Rhinocladiella</i> (?) sp.
7938	<i>Pandora neoaphidis</i>	8826	<i>Scopulariopsis</i> sp.	9923	<i>Phoma</i> sp.
7939	<i>Pandora neoaphidis</i>	8827	<i>Scopulariopsis</i> sp.	9924	<i>Lecanicillium</i> sp.
7979	<i>Metarhizium anisopliae</i> sensu stricto	8888	<i>Hirsutella lecanicola</i>	9925	<i>Lecanicillium</i> sp.
7980	<i>Metarhizium anisopliae</i> sensu stricto	8889	<i>Beauveria bassiana</i>	9926	<i>Lecanicillium</i> sp.
7981	<i>Metarhizium anisopliae</i> sensu stricto	8924	<i>Myriangium duriae</i>	9927	<i>Beauveria bassiana</i>
7984	<i>Beauveria bassiana</i>	8925	<i>Myriangium duriae</i>	9928	<i>Paecilomyces marquandii</i>
7985	<i>Lecanicillium aphanocladii</i> (?)	8928	<i>Isaria fumosorosea</i>	9929	<i>Paecilomyces marquandii</i>
7986	<i>Lecanicillium aphanocladii</i> (?)	8930	<i>Pandora nouri</i>	9930	<i>Lecanicillium</i> sp.
8025	<i>Beauveria bassiana</i>	8931	<i>Pandora nouri</i>	9931	<i>Lecanicillium</i> sp.
8026	<i>Beauveria bassiana</i>	8932	<i>Beauveria bassiana</i>	9932	<i>Mariannaea</i> sp.
8027	<i>Beauveria bassiana</i>	8984	<i>Metarhiziopsis microspora</i>	9933	<i>Mariannaea</i> sp.
8028	<i>Beauveria bassiana</i>	8985	<i>Metarhiziopsis microspora</i>	9934	<i>Mariannaea</i> sp.
8029	<i>Beauveria bassiana</i>	8986	<i>Metarhiziopsis microspora</i>	9935	<i>Lecanicillium</i> sp.
8030	<i>Beauveria bassiana</i>	8987	<i>Metarhiziopsis microspora</i>	9936	<i>Lecanicillium</i> sp.
8036	<i>Beauveria bassiana</i>	8988	<i>Metarhiziopsis microspora</i>	9937	<i>Fusarium</i> sp.
8041	<i>Lecanicillium muscarium</i>	9175	<i>Lecanicillium</i> sp.	9938	<i>Trichoderma</i> sp.
8042	<i>Lecanicillium longisporum</i>	9176	<i>Lecanicillium</i> sp.	10135	<i>Metarhizium anisopliae</i> sensu lato
		9177	<i>Lecanicillium</i> sp.	10136	<i>Metarhizium anisopliae</i> sensu lato

10137 Metarhizium anisopliae sensu lato	10230 Sporothrix sp.	10382 Isaria sp.
10138 Beauveria bassiana	10231 Isaria sp.	10383 Isaria sp.
10139 Beauveria bassiana	10232 Isaria sp.	10384 Isaria sp.
10140 Beauveria bassiana	10233 Isaria sp.	10385 Isaria sp.
10143 Beauveria bassiana	10276 Aschersonia sp.	10386 Unidentified / Hyphomycetes
10144 Beauveria bassiana	10282 Unidentified / Hyphomycetes	10387 Unidentified / Hyphomycetes
10145 Beauveria bassiana	10283 Unidentified / Hyphomycetes	10388 Fusarium sp.
10146 Tolypocladium cylindrosporum	10284 Unidentified / Hyphomycetes	10389 Fusarium sp.
10147 Beauveria bassiana	10285 Unidentified / Hyphomycetes	10390 Fusarium sp.
10148 Beauveria bassiana	10286 Unidentified / Hyphomycetes	10391 Fusarium sp.
10150 Mariannaea sp.	10287 Lecanicillium sp.	10392 Unidentified / Hyphomycetes
10151 Mariannaea sp.	10288 Lecanicillium sp.	11618 Beauveria bassiana
10152 Mariannaea sp.	10289 Lecanicillium sp.	11619 Beauveria bassiana
10153 Mariannaea sp.	10290 Lecanicillium sp.	11620 Beauveria bassiana
10154 Lecanicillium sp.	10291 Lecanicillium sp.	11629 Isaria sp.
10155 Isaria farinosa	10292 Unidentified / Hyphomycetes	11630 Isaria sp.
10157 Isaria farinosa	10293 Unidentified / Hyphomycetes	11631 Isaria sp.
10158 Isaria farinosa	10294 Lecanicillium sp.	11632 Isaria sp.
10159 Isaria farinosa	10295 Lecanicillium sp.	11633 Isaria sp.
10161 Isaria farinosa	10296 Lecanicillium sp.	11634 Isaria sp.
10162 Isaria sp.	10297 Lecanicillium sp.	11635 Isaria sp.
10166 Acremonium bactrocephalum	10298 Lecanicillium sp.	11636 Isaria sp.
10167 Acremonium bactrocephalum	10299 Lecanicillium sp.	11648 Lecanicillium sp.
10168 Acremonium bactrocephalum	10300 Lecanicillium sp.	11650 Conidiobolus sp.
10169 Acremonium bactrocephalum	10301 Lecanicillium sp.	11655 Fusarium sp.
10170 Lecanicillium psalliotae	10302 Lecanicillium sp.	11662 Pandora neoaphidis
10175 Lecanicillium psalliotae	10303 Lecanicillium sp.	11663 Pandora neoaphidis
10176 Lecanicillium psalliotae	10304 Lecanicillium sp.	11664 Conidiobolus thromboides
10177 Lecanicillium psalliotae	10305 Lecanicillium sp.	11665 Hirsutella citriformis
10178 Lecanicillium muscarium	10306 Lecanicillium sp.	11667 Acremonium sp.
10180 Lecanicillium psalliotae	10307 Unidentified / Hyphomycetes	11712 Beauveria bassiana
10181 Lecanicillium psalliotae	10308 Colletotrichum sp.	11727 Simplicillium lamellicola
10182 Lecanicillium psalliotae	10309 Scopulariopsis sp.	11728 Simplicillium lamellicola
10183 Lecanicillium psalliotae(?)	10310 Scopulariopsis sp.	11729 Simplicillium lamellicola
10184 Lecanicillium fusisporum(?)	10311 Fusarium sp.	11730 Lecanicillium muscarium
10185 Mariannaea sp.	10312 Fusarium sp.	11731 Lecanicillium muscarium
10187 Lecanicillium sp.	10313 Fusarium sp.	11732 Simplicillium lamellicola
10188 Lecanicillium sp.	10348 Beauveria bassiana	11733 Lecanicillium muscarium
10189 Lecanicillium sp.	10349 Beauveria bassiana	11734 Lecanicillium muscarium
10190 Lecanicillium sp.	10351 Beauveria bassiana	11735 Simplicillium lamellicola
10191 Unidentified / Hyphomycetes	10352 Beauveria bassiana	11736 Lecanicillium muscarium
10192 Lecanicillium sp.	10353 Beauveria bassiana	11737 Simplicillium lamellicola
10193 Lecanicillium sp.	10354 Beauveria bassiana	11738 Simplicillium lamellicola(?)
10194 Mariannaea sp.	10355 Beauveria bassiana	11754 Beauveria sp.
10195 Lecanicillium sp.	10356 Beauveria bassiana	11755 Hirsutella sp.
10196 Lecanicillium sp.	10357 Beauveria bassiana	11757 Hirsutella sp.
10197 Lecanicillium sp.	10358 Beauveria bassiana	11758 Hirsutella sp.
10198 Lecanicillium sp.	10359 Beauveria bassiana	11759 Hirsutella sp.
10199 Lecanicillium sp.	10360 Beauveria bassiana	11760 Hirsutella sp.
10200 Lecanicillium sp.	10361 Beauveria bassiana	11761 Hirsutella sp.
10201 Lecanicillium sp.	10362 Beauveria bassiana	11787 Lecanicillium fusisporum
10202 Lecanicillium sp.	10363 Isaria sp.	11788 Evlachovaea sp.
10203 Lecanicillium sp.	10364 Isaria sp.	11789 Lecanicillium evansii(?)
10204 Mariannaea sp.	10365 Isaria sp.	11790 Fusarium sp.
10205 Mariannaea sp.	10366 Isaria sp.	11791 Lecanicillium evansii(?)
10206 Lecanicillium sp.	10367 Isaria sp.	11792 Lecanicillium evansii(?)
10207 Lecanicillium sp.	10368 Isaria sp.	11793 Lecanicillium evansii(?)
10208 Lecanicillium sp.	10369 Isaria sp.	11794 Lecanicillium evansii(?)
10209 Lecanicillium sp.	10370 Isaria sp.	11797 Lecanicillium evansii(?)
10210 Lecanicillium sp.	10371 Isaria sp.	11808 Lecanicillium fusisporum
10211 Lecanicillium sp.	10372 Isaria sp.	11809 Lecanicillium evansii(?)
10212 Lecanicillium sp.	10373 Isaria sp.	11812 Mariannaea sp.
10213 Lecanicillium sp.	10374 Isaria sp.	11813 Mariannaea sp.
10214 Lecanicillium sp.	10375 Isaria sp.	11815 Lecanicillium lecanii(?)
10219 Colletotrichum fioriniae	10376 Isaria sp.	11816 Lecanicillium muscarium(?)
10220 Colletotrichum fioriniae	10377 Isaria sp.	11817 Lecanicillium lecanii
10221 Colletotrichum fioriniae	10378 Isaria sp.	11818 Lecanicillium muscarium
10222 Colletotrichum fioriniae	10379 Isaria sp.	11820 Hirsutella rhossiliensis
10223 Colletotrichum fioriniae	10380 Isaria sp.	11821 Paecilomyces carneus
10225 Purpureocillium lilacinum	10381 Isaria sp.	11822 Isaria farinosa

11823 *Isaria farinosa*
11833 *Isaria farinosa*
11837 *Myriodontium keratinophilum*
11838 *Myriodontium keratinophilum*
11839 *Metarhizium* sp.
11840 *Metarhizium anisopliae* sensu lato
11841 *Beauveria bassiana*
11842 *Metarhiziopsis microspora*
11843 *Metarhiziopsis microspora*
11846 *Beauveria bassiana*
11847 *Beauveria bassiana*
11848 *Beauveria bassiana*
11851 *Metarhiziopsis microspora*
11852 *Myriangium* sp.
11853 *Myriangium* sp.
11854 *Myriangium* sp.
11855 *Myriangium* sp.
11856 *Myriangium* sp.
11857 *Myriangium* sp.
11858 *Myriangium* sp.
11859 *Zoopthora radicans*
11860 *Zoopthora radicans*
11861 *Zoopthora radicans*
11862 *Pandora neoaphidis*
11863 *Pandora neoaphidis*
11865 *Fusarium* sp.
11866 *Cladosporium* sp.
11868 *Aschersonia turbinata*
11869 *Aschersonia turbinata*
11870 *Moelleriella umbospora*
11871 *Moelleriella umbospora*
12052 *Lecanicillium* sp.
12053 *Lecanicillium* sp.
12054 *Lecanicillium* sp.
12055 *Lecanicillium* sp.
12056 *Lecanicillium* sp.
12057 *Lecanicillium* sp.
12058 *Lecanicillium* sp.
12059 *Lecanicillium* sp.
12060 *Lecanicillium* sp.
12061 *Lecanicillium* sp.
12062 *Lecanicillium* sp.
12063 *Lecanicillium* sp.
12064 *Lecanicillium* sp.
12065 *Lecanicillium* sp.
12066 *Lecanicillium* sp.
12067 *Lecanicillium* sp.
12068 *Lecanicillium* sp.
12069 *Lecanicillium* sp.
12070 *Lecanicillium* sp.
12071 *Lecanicillium* sp.
12072 *Fusarium* sp.
12073 *Fusarium* sp.
12074 *Fusarium* sp.
12075 *Fusarium* sp.
12076 *Fusarium* sp.
12077 *Fusarium* sp.
12078 *Fusarium* sp.
12079 *Fusarium* sp.
12080 *Rhinoclatiella*(?) sp.
12081 *Rhinoclatiella*(?) sp.
12082 *Rhinoclatiella*(?) sp.
12083 *Colletotrichum* sp.
12084 *Fusarium* sp.
12085 Unidentified / *Hyphomycetes*
12086 Unidentified / *Hyphomycetes*
12087 Unidentified / *Hyphomycetes*
12088 Unidentified / *Hyphomycetes*
12089 *Lecanicillium* sp.
12090 Unidentified / *Hyphomycetes*