

*USDA-ARS Collection
of Entomopathogenic
Fungal Cultures*

ARSef

Isolates from COLEOPTERA



**Biological Integrated Pest Management Research
Robert W. Holley Center for Agriculture & Health
538 Tower Road
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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**

Polycephalomyces — **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 *Miophagus*—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

- 2225 [ARSEF 2210] MC Rombach (140486-1) ← H Beddu Rewa. [Coleoptera: Curculionidae] on palm tree. 22 Mar 1986. Indonesia: Baritiwuring (Butterfly Valley), nr. Ujungpandang, Sulawesi Selatan, Celebes.
- 2999 SV Krueger (MF-Ec). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Feb 1990. USA: Geneva, New York. [Hemiascomyete].
- 5223 LA Lacey (96001). *Popillia japonica* [Coleoptera: Scarabaeidae]. 13 May 1996. Japan: Golf course, Sapporo, Hokkaido.
- 5224 LA Lacey (96002). *Popillia japonica* [Coleoptera: Scarabaeidae]. 10 May 1996. Japan: Golf course, Sapporo, Hokkaido.
- 5225 LA Lacey (96003). *Popillia japonica* [Coleoptera: Scarabaeidae]. 10 May 1996. Japan: Golf course, Sapporo, Hokkaido.
- 5226 LA Lacey (96004). *Popillia japonica* [Coleoptera: Scarabaeidae]. 16 May 1996. Japan: Golf course, Sapporo, Hokkaido.
- 5227 LA Lacey (96005). *Popillia japonica* [Coleoptera: Scarabaeidae]. 16 May 1996. Japan: Golf course, Sapporo, Hokkaido.
- 5677 BL Parker (SPT-014). [Coleoptera: Coccinellidae]. 18 Jan 1998. Turkey: Hurbit Mountain, Hatay.
- 5695 JM Sung (KEFC-1087). [Coleoptera: Curculionidae]. 9 Jul 1997. Republic of Korea: Yongmoon Mt., Gyeonggi Province.
- 8155 LS Bauer and H Liu (MF-246). 4th instar larva, *Agrius planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Brighton, Michigan.
- 8179 LS Bauer and H Liu (MF-273). 4th instar larva, *Agrius planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8183 LS Bauer and H Liu (MF-281). 4th instar larva, *Agrius planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8184 LS Bauer and H Liu (MF-282). 4th instar larva, *Agrius planipennis* [Coleoptera: Buprestidae]. 10 Aug 2006. USA: Lansing, Michigan.
- 8641 [CENARGEN CG 639] [Coleoptera]. Rec'd 18 Sep 2007. Ghana. **RESTRICTED ACCESS: consult Curator.**
- 11666 JL Hatting (TPC 019). *Cochliotis melolonthoides* [Coleoptera: Scarabaeidae]. 20 Jun 2011. Tanzania: Sugarcane field.
- Nymph, [Coleoptera]. 27 Jun 1984. France: Saint-Étienne du Bois, Loire.
- 3471 CENARGEN (CG 304). *Sternechus subsignatus* [Coleoptera: Curculionidae]. 1990. Brazil: Passo Fundo, Rio Grande do Sul.
- 3478 CENARGEN (CG 311). *Aracanthus* sp. [Coleoptera: Curculionidae]. 1990. Brazil: Santa Maria, Rio Grande do Sul.
- 3714 RA LeBrun ← J Hanula (C-5). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 1 Jul 1991. Location not specified.
- 3719 RA LeBrun ← J Hanula (W-2). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. Summer 1991. Location not specified.
- 3722 Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 21 Jun 1991. USA: Groton, Connecticut.
- 3724 S DeFazio. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 18 May 1992. Location not specified.
- 3821 ERD Reyes (BbCO2) or (BbH). Adult, *Hippodamia convergens* [Coleoptera: Coccinellidae] OVERWINTERING SITE. 9 Oct 1992. Mexico: Guanajuato State.
- 3841 LA Lacey (92140). *Popillia japonica* [Coleoptera: Scarabaeidae]. Rec'd 24 Nov 1992. Portugal: Terceira Island, Azores.
- 3980 LA Lacey (93017) ← S Reichert. Adult, *Oulema melanopus* [Coleoptera: Chrysomelidae]. 19 Apr 1993. France: La Valette.
- 4037 T Steenberg (251). *Phyllotreta nigripes* [Coleoptera: Chrysomelidae]. Oct 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 4140 [DAT 25] AC Rath (F025). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1986. Australia: Hamilton, Tasmania.

Acremonium alternatum Link : Fries
[Sordariomycetes: Hypocreales]

- 7282 FE Vega (CBB9-2). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 8 Jan 2004. Colombia: Chinchiná, Caldas.

Acremonium furcatum F&R Moreau ex Gams
[Sordariomycetes: Microascales]
Microascaceae

- 1372 TJ Poprawski (083). Egg, *Hypera postica* [Coleoptera: Curculionidae]. 21 Jun 1983. France: Choisy-en-Brie, Haute-Savoie.

Aphanocladium album (Preuss) Gams
[Sordariomycetes: Hypocreales]
Nectriaceae

- 1329 TJ Poprawski (085). Egg, *Hypera postica* [Coleoptera: Curculionidae]. 5 Jun 1983. France: Chichery.

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.

- 1634 [ARSEF 1667 (deaccessioned)] TJ Poprawski (0120).

***Aspergillus* sp.**

[Eurotiomycetes: Eurotiales]

Trichocomaceae

- 6571 LS Bauer. Egg mass, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 23 May 2000. USA: from laboratory colony, USDA Forest Service, NCRS, East Lansing, Michigan.
- 7048 TM O'Neil and DW Spurgeon. *Anthonomus grandis* [Coleoptera: Curculionidae]. Rec'd 12 Aug 2002. USA: Southern Plains Agricultural Research Center, College Station, Texas.

***Aspergillus flavus* Link:Fries**

[Eurotiomycetes: Eurotiales]

Trichocomaceae

- 6454 Z G/Tsadik (5/03-BB). *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. 3 Oct 1999. Ethiopia: Northern Shoa.
- 6469 LS Bauer (2UIC1817). Larva, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] from laboratory colony, USDA Forest Service, NCRS. Rec'd 19 Feb 2000. USA: East Lansing, Michigan.
- 9381 DI Shapiro Ilan. *Tenebrio molitor* [Coleoptera: Tenebrionidae] for rearing of entomopathogenic nematodes. Rec'd 6 Jan 2010.

***Aspergillus nidulans*(?) (Eidam) Winter**

[Eurotiomycetes: Eurotiales]

Trichocomaceae

- 6515 RT Mayer. Larva, *Diaprepes abbreviata* [Coleoptera: Curculionidae]. Rec'd 10 May 2000. USA: Florida.

***Aspergillus parasiticus* Speare**

[Eurotiomycetes: Eurotiales]

Trichocomaceae

- 2173 MC Rombach (140486-1) ← H Beddu Rewa. [Coleoptera: Curculionidae] on palm tree. 22 Mar 1986. Indonesia: Baritiwurung (Butterfly Valley), nr. Ujungpandang, Sulawesi Selatan, Celebes.

***Batkoa* sp.**

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae

- 5810 RA Humber. [Coleoptera: Cantharidae]. 9 Aug 1998. Denmark.

***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.

- 547 VA Dyck. *Pachybrachis pallicornis* [Coleoptera: Chrysomelidae]. Acc'd 17 Sep 1986. Malaysia.

- 1327 TJ Poprawski (082). Egg, *Hypera postica* [Coleoptera: Curculionidae]. 16 May 1983. France: Saint-Laurent, Vosges.
- 1681 M Shimazu (F-333). *Shirahoshizo insidiosus* [Coleoptera: Curculionidae]. 27 Jan 1982. Japan: Takao, Tokyo Prefecture.
- 1682 M Shimazu (F-357(11)). *Anomala cuprea* [Coleoptera: Scarabaeidae]. 20 Nov 1980. Japan: Nagano Prefecture.
- 1835 SB Alves (295). *Anthonomus grandis* [Coleoptera: Curculionidae]. Rec'd 21 Jan 1985. Brazil.
- 2412 K Narayanan (9). *Xyloryctes jamaicensis* [Coleoptera: Scarabaeidae]. Acc'd 6 May 1987. India.
- 4027 T Steenberg (231) ← CW Riedel. *Coccinella septempunctata* [Coleoptera: Coccinellidae]. Nov 1990. Denmark: Slangerup, Zealand.
- 4390 LA Lacey (94132). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo, Hokkaido.
- 4391 LA Lacey (94133). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo, Hokkaido.
- 4392 LA Lacey (94134). *Popillia japonica* [Coleoptera: Scarabaeidae]. 27 Apr 1994. Japan: Sapporo, Hokkaido.
- 4853 JM Sung (C-332). Adult, [Coleoptera: Coccinellidae]. Jul 1994. Republic of Korea: KNU experiment Forest, Kangwon National University.
- 4909 LA Lacey (95011). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4910 LA Lacey (95012). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4911 LA Lacey (95013). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4912 LA Lacey (95014). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4913 LA Lacey (95015). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4914 LA Lacey (95016). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4915 LA Lacey (95017). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4916 LA Lacey (95018). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 4917 LA Lacey (95019). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.

- 4918 LA Lacey (95020). Adult, *Tomicus pimperda* [Coleoptera: Scolytidae]. 8 Mar 1995. France: Auzon (River), Vaucluse.
- 5186 S Gouli (GA-96). [Coleoptera: Lampyridae]. 2 Jun 1995. USA: Motyka's sugar maple stand, Williamstown, Vermont.
- 5697 JM Sung (KEFC-1105). [Coleoptera]. 28 Jun 1997. Republic of Korea: Mt. Gyaeryong, Chungnam Province.
- 5831 BL Parker (SPT 003). [Coleoptera]. 17 Jan 1998. Turkey: Karabiyikli, Narli, Kahraman Maras.
- 5833 BL Parker (SPT 013/1). [Coleoptera: Coccinellidae]. 18 Jan 1998. Turkey: Hursit Mt., Gaziantep, Gaziantep.
- 7463 [CEP 061] C López Lastra. [Coleoptera: Curculionidae] on *Eryngium* sp. (Apiaceae). 13 Jul 2004. Argentina: San Vicente, Buenos Aires.
- 7580 [SRCAMB B-22] V Likhovidov ← BA Borisov. Larva, [Coleoptera: Elateridae] Isolated from stroma of *Cordyceps* sp. 28 Jul 2001. Russian Federation: Kedrovaya Pad Nature Reserve, Primorsky Krai. Field Collection Number F-172.
- 7591 [SRCAMB B-182] V Likhovidov ← BA Borisov. [Coleoptera: Coccinellidae]. Aug 2002. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-173.
- 7595 [SRCAMB B-405] V Likhovidov ← BA Borisov. [Coleoptera]. Oct 1990. Ukraine: Kherson Oblast. Field Collection Number F-207.
- 8110 LS Bauer and H Liu (MF-101). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 3 Mar 2003. USA: Northville, Michigan.
- 8111 LS Bauer and H Liu (MF-102). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 3 Mar 2003. USA: Northville, Michigan.
- 8112 LS Bauer and H Liu (MF-201). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 4 Dec 2005. USA: Brighton, Michigan.
- 8113 LS Bauer and H Liu (MF-202). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.
- 8116 LS Bauer and H Liu (MF-205). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.
- 8117 LS Bauer and H Liu (MF-206). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.
- 8119 LS Bauer and H Liu (MF-209). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 23 Jan 2006. USA: Brighton, Michigan.
- 8120 LS Bauer and H Liu (MF-210). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 23 Jan 2006. USA: Brighton, Michigan.
- 8121 LS Bauer and H Liu (MF-211). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 23 Jan 2006. USA: Brighton, Michigan.
- 8122 LS Bauer and H Liu (MF-212). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 23 Jan 2006. USA: Brighton, Michigan.
- 8123 LS Bauer and H Liu (MF-213). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 16 Dec 2005. USA: Brighton, Michigan.
- 8124 LS Bauer and H Liu (MF-214). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 2 Feb 2006. USA: Brighton, Michigan.
- 8125 LS Bauer and H Liu (MF-215). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 5 Mar 2006. USA: Brighton, Michigan.
- 8126 LS Bauer and H Liu (MF-216). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 5 Mar 2006. USA: Brighton, Michigan.
- 8127 LS Bauer and H Liu (MF-217). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 5 Mar 2006. USA: Brighton, Michigan.
- 8128 LS Bauer and H Liu (MF-218). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 5 Mar 2006. USA: Brighton, Michigan.
- 8129 LS Bauer and H Liu (MF-219). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 5 Mar 2006. USA: Brighton, Michigan.
- 8130 LS Bauer and H Liu (MF-220). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 1 Dec 2005. USA: Ann Arbor, Michigan.
- 8132 LS Bauer and H Liu (MF-222). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 1 Dec 2005. USA: Ann Arbor, Michigan.
- 8133 LS Bauer and H Liu (MF-223). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 1 Dec 2005. USA: Ann Arbor, Michigan.
- 8134 LS Bauer and H Liu (MF-224). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 1 Dec 2005. USA: Ann Arbor, Michigan.
- 8135 LS Bauer and H Liu (MF-225). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 1 Dec 2005. USA: Ann Arbor, Michigan.
- 8136 LS Bauer and H Liu (MF-226). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 1 Dec 2005. USA: Ann Arbor, Michigan.
- 8137 LS Bauer and H Liu (MF-227). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 1 Dec 2005. USA: Ann Arbor, Michigan.
- 8138 LS Bauer and H Liu (MF-228). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 9 Jan 2006. USA: Ann Arbor, Michigan.
- 8139 LS Bauer and H Liu (MF-229). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 12 Dec 2005. USA: Ann Arbor, Michigan.
- 8140 LS Bauer and H Liu (MF-231). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Brighton, Michigan.

- [illegible]

- 8186 LS Bauer and H Liu (MF-284). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8187 LS Bauer and H Liu (MF-285). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8188 LS Bauer and H Liu (MF-286). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Summer 2006. USA: Lansing, Michigan.
- 8250 P Narayanasamy. Adult, *Basilepta fulvicornis* [Coleoptera: Chrysomelidae] on *Elettaria cardamomum* (L.) Maton, cardamom crop. 30 Aug 2006. India: Tamil Nadu.
- 9272 Z Demirbag and E Tanyeli (Dm-6). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Maçka-Zigana, Trabzon.

Beauveria amorphia (von Hoehnel) Minnick, SA
Rehner & Humber
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Replaces *B. amorphia* (von Hoehnel)
Samson & Evans.

- 1676 M Shimazu (F-77). *Anomala costata* [Coleoptera: Scarabaeidae]. 11 Oct 1971. Japan: Daimon, Nagano Prefecture.
- 1680 M Shimazu (F-313). *Psacotha hilaris* [Coleoptera: Cerambycidae]. Oct 1981. Japan: Takao, Tokyo Prefecture.
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- 4149 [DAT 142] AC Rath (F142). Pre-pupa, *Adoryphorus coultonii* [Coleoptera: Scarabaeidae]. 23 Jun 1989. Australia: Glen Morey, Woodbury, Tasmania. Identification verified genomically.
- 4990 LA Lacey (95048). Adult, *Popillia japonica* [Coleoptera: Scarabaeidae]. 7 Sep 1995. Azores: Teceira.

***Beauveria amorphia*(?)** (van Hoehnel) Samson & HC
Evans
[Sordariomycetes: Hypocreales]
Cordycipitaceae

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Beauveria asiatica SA Rehner & Humber
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Defined primarily by genotypic
characters

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- 4474 LA Lacey (94152). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou. Identification verified genomically.

Beauveria bassiana (Balsamo-Crivelli) Vuillemin
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Beauveria densa*
(Link:Fries) Picard

- 149 M Wojciechowska (28). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 18 Jul 1977. France.
- 150 M Wojciechowska (24). [Coleoptera: Elateridae]. Rec'd 18 Jul 1977. France.
- 201 JD Vandenberg. *Diabrotica undecimpunctata* [Coleoptera: Chrysomelidae] on greenbeans. 22 Oct 1977. USA: greenhouse, Corvallis, Oregon. Mycotech's GHA (US Patent 5,939,065; 17 Aug 1999), the active ingredient in Mycotrol products, is a reisolat of this strain.
- 252 C Madore. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 14 Sep 1978. USA: greenhouse, Orono, Maine.
- 293 DW Roberts ← CW McCoy. [Coleoptera]. Acc'd 4 Jan 1979. Location not specified.
- 301 DW Roberts ← B Schaerffenberg. [Coleoptera]. Acc'd 23 Mar 1979. Poland.
- 317 RA LeBrun. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 27 Feb 1979. USA: Rhode Island.
- 318 RA LeBrun. [Coleoptera: Cerambycidae]. Rec'd 27 Feb 1979. USA: Rhode Island.
- 319 RA LeBrun. [Coleoptera: Cerambycidae]. Rec'd 27 Feb 1979. Mexico.
- 325 [CSIRO FI49] RS Soper. [Coleoptera: Nitidulidae] on maize. 14 Feb 1979. Australia: Atherton, Queensland.
- 336 C Russel. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 25 Aug 1978. USA: Georgia.
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- 344 J Lindegren. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Feb 1979. USA: Yakima, Washington.
- 350 IM Abalis. [Coleoptera]. Acc'd 8 Jun 1979. USA: Ithaca, New York.
- 353 C Gordon. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. May 1978. USA: laboratory colony, Orono, Maine.
- 384 INRA. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd Sep 1979. France.
- 412 CW McCoy. *Diaprepes abbreviata* [Coleoptera: Curculionidae]. 27 Jul 1979. USA: Apopka, Florida.
- 413 CW McCoy. *Araecerus fasciculatus* [Coleoptera: Anthribidae]. 8 May 1979. USA: Fruitland Park, Florida.

- 416 CW McCoy. *Diaprepes abbreviata* [Coleoptera: Curculionidae]. 20 Jul 1979. USA: Apopka, Florida.
- 433 *Diaprepes abbreviata* [Coleoptera: Curculionidae]. 14 Jan 1980. Location not specified.
- 504 RS Soper. [Coleoptera: Chrysomelidae]. 12 Aug 1980. Yugoslavia: orchard behind bus station, Zabari, Serbia.
- 505 RA Humber. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 14 Aug 1980. Yugoslavia: potato field at road marker 119 on M22, nr. Srbobran.
- 506 RA Humber and RS Soper. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 14 Aug 1980. Yugoslavia: road marker 82 on M22, nr. Srbobran, Freketic.
- 507 C Sidor and RS Soper. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 16 Aug 1980. Yugoslavia: between Putnici and Indjija.
- 509 C Sidor. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 18 Aug 1980. Yugoslavia: nr. Varazdin by transformer in field, Nedeljane, Croatia.
- 510 RA Humber and RS Soper. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 26 Aug 1980. Yugoslavia: Forestry Inst. Nursery, E of Pec, nr. Crno Brdo.
- 534 MG Ward. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd Oct 1980. USA: established laboratory colony, Boyce Thompson Institute, Ithaca, New York.
- 535 MG Ward. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd Oct 1980. USA: newly established laboratory colony, Boyce Thompson Institute, Ithaca, New York.
- 721 TB Clark. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Feb 1982. Colombia: ?CIAT, Cali, Valle del Cauca.
- 731 [CNPAF 81-11-25-05; CP 5] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 25 Nov 1981. Brazil: Costa do Surubin, Cristo Rei, Amazonas.
- 732 [CNPAF 81-11-25-07; CP 6] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 25 Nov 1981. Brazil: Costa do Surubin, Cristo Rei, Amazonas.
- 733 [CNPAF 82-1-6-01; CP 7] RA Daoust. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 734 [CNPAF 82-1-6-03; CP 9] RA Daoust ← G Pereira Rios. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 735 [CNPAF 82-1-15-02; CP 14] RA Daoust. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 736 [CNPAF 82-1-6-04; CP 10] RA Daoust ← G Pereira Rios. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 738 [CNPAF 82-2-9-01; CP 23] RA Daoust. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 9 Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 739 [CNPAF 82-2-3-01; CP 27] RA Daoust. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 3 Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 751 P Jolivet. [Coleoptera: Chrysomelidae]. Apr 1982. Vietnam: Cuc Phuong Forest. Identification verified genomically.
- 752 [CNPAF 82-2-15-01; CP 34] RA Daoust. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 753 [CNPAF 82-3-24-01; CP 36] RS Soper. *Aracanthus* sp. [Coleoptera: Curculionidae]. 24 Mar 1982. Brazil: Brejo Santo, Ceará.
- 754 [CNPAF 82-4-4-01; CP 38] RA Daoust. [Coleoptera]. 4 Apr 1982. Brazil: CNPAF, Goiânia, Goiás.
- 756 [CNPAF 81-11-25-04; CP 4] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 25 Nov 1981. Brazil: Costa do Surubin, Cristo Rei, Amazonas.
- 757 [CNPAF 82-3-23-01; CP 35] RA Daoust. [Coleoptera: Tenebrionidae]. 23 Mar 1982. Brazil: Missão Velha, Ceará.
- 758 [CNPAF 82-3-1-03; CP 29] RA Daoust. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 1 Mar 1982. Brazil: CNPAF, Goiânia, Goiás.
- 783 [CNPAF 82-5-6-02; CP 59] RA Daoust ← JPP de Araújo. Adult, [Coleoptera: Tenebrionidae]. 6 May 1982. Brazil: Barbalha, Ceará.
- 784 [CNPAF 82-4-30-01C; CP 47] RA Daoust and JPP de Araújo. Adult, [Coleoptera: Elateridae]. 30 Apr 1982. Brazil: Novo Oriente, Ceará.
- 785 [CNPAF 82-4-29-01; CP 46] RA Daoust. Adult, [Coleoptera: Cerambycidae]. 29 Apr 1982. Brazil: Caucaia, Ceará.
- 786 [CNPAF 82-5-3-03B; CP 51] RA Daoust and FE de Araújo. *Crimissa* sp. [Coleoptera: Chrysomelidae]. 3 May 1982. Brazil: 20 km N of Pacajus, Ceará.
- 787 [CNPAF 82-5-6-01; CP 58] RA Daoust ← JPP de Araújo. Adult, [Coleoptera: Tenebrionidae]. 6 May 1982. Brazil: Barbalha, Ceará.
- 788 [CNPAF 82-5-3-03A; CP 50] RA Daoust and FE de Araújo. *Crimissa* sp. [Coleoptera: Chrysomelidae]. 3 May 1982. Brazil: 20 km N of Pacajus, Ceará.
- 804 [CNPAF 82-4-30-01D; CP 48] RA Daoust and JPP de Araújo. Adult, [Coleoptera: Elateridae]. 30 Apr 1982. Brazil: Novo Oriente, Ceará.
- 805 [CNPAF 82-5-3-01; CP 49] RA Daoust ← LS Teixeira. *Crimissa* sp. [Coleoptera: Chrysomelidae]. 3 May 1982. Brazil: Pacajus, Ceará.
- 809 [CNPAF 82-6-28-01; CP 61] RA Daoust ← SM dos Santos. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 28 Jun 1982. Brazil: CNPAF, Goiânia, Goiás.

- 815 GG Soares (12). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistère.
- 816 GG Soares (20) ← JP Aeschlimann. 5th instar larva, *Sitona discoideus* [Coleoptera: Curculionidae]. 29 Mar 1982. France: Montpellier, Hérault.
- 842 *Metamasius* sp. [Coleoptera: Curculionidae]. Acc'd 6 Jun 1983. Colombia.
- 928 [CNPAF 82-07-27-01; CP 63] RA Daoust ← SM dos Santos. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 27 Jul 1982. Brazil: CNPAF, Goiânia, Goiás.
- 930 [CNPAF 82-12-15-02; CP 68] RA Daoust ← SM dos Santos. [Coleoptera: Curculionidae]. Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 931 [CNPAF 82-12-20-01; CP 69] RA Daoust ← H da Silva Coelho. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 20 Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 934 [CNPAF 83-1-25-01; CP 72] RA Daoust. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 25 Jan 1983. Brazil: CNPAF, Goiânia, Goiás.
- 937 [CNPAF 83-3-3-01; CP 76] RA Daoust ← E Ferreira. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 3 Mar 1983. Brazil: F. Itamaraty, Ponta Porã, Mato Grosso.
- 938 [CNPAF 83-3-3-02; CP 77] RA Daoust ← E Ferreira. *Diabrotica paranaensis* [Coleoptera: Chrysomelidae]. 3 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 941 [CNPAF 83-03-16C; CP 82] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 942 [CNPAF 83-03-16D; CP 83] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 943 [CNPAF 83-03-16E; CP 84] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 946 [CNPAF 83-03-15E; CP 87] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 947 [CNPAF 83-03-15-M; CP 88] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 948 [CNPAF 83-03-15-O; CP 89] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 949 [CNPAF 83-03-15-P; CP 90] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 950 [CNPAF 83-03-15-Q; CP 91] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 951 [CNPAF 83-03-15B; CP 92] RA Daoust and BP Magalhães. *Cerotoma* sp. [Coleoptera: Chrysomelidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 952 [CNPAF 83-03-15H; CP 93] RA Daoust and BP Magalhães. Adult, [Coleoptera: Carabidae]. Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 953 [CNPAF 83-03-16K; CP 98] RA Daoust and BP Magalhães. *Chalcodermus* sp. [Coleoptera: Curculionidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 956 [CNPAF 83-5-27; CP 101] RA Daoust ← SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 27 May 1983. Brazil: CNPAF, Goiânia, Goiás.
- 958 [CNPAF 83-01-06A (CB 97); CP 104] RA Daoust ← SM de Carvalho. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 6 Jan 1983. Brazil: Londrina, Paraná.
- 982 [CNPAF 83-03-17B; CP 95] RA Daoust and BP Magalhães. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 17 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 1016 ME McGiffen. *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Nov 1983. Location not specified.
- 1039 L Allee. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1983. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1041 J Aoki (Isa. 1) ← S Miyajima. *Psacotha hilaris* [Coleoptera: Cerambycidae]. Oct 1981. Japan: Nagakute, Aichi Prefecture.
- 1060 [CNPS 31] F Moscardi. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 1983. Brazil: Londrina, Paraná.
- 1061 [CNPS 32] F Moscardi ← Francisco. [Coleoptera: Curculionidae]. 1983. Brazil: Londrina, Paraná.
- 1073 TJ Poprawski (83-48). Adult, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jul 1983. France: tree nursery containers, Les Thilliers-en-Vexin, Eure.
- 1074 TJ Poprawski (83-49). Adult, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jul 1983. France: tree nursery containers, Les Thilliers-en-Vexin, Eure.
- 1075 TJ Poprawski (83-54). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 21 Jul 1983. France: tree nursery containers, Les Thilliers-en-Vexin, Eure.
- 1079 *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Acc'd Feb 1984. USA: Washington.
- 1081 L Allee. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1983. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1106 KV Deseö (25) ← Chianella. *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Feb 1982. Italy: Sicily.
- 1153 TJ Poprawski (074). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.

- 1154 TJ Poprawski (072). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 25 Jan 1984. Morocco: Jramma.
- 1155 TJ Poprawski (073). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.
- 1156 TJ Poprawski (83-639). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. 22 Oct 1983. France: Guyancourt, Yvelines.
- 1157 TJ Poprawski (83-619). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1158 TJ Poprawski (83-634). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Vernon, Eure.
- 1159 TJ Poprawski (83-615). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1160 TJ Poprawski (83-614). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1161 TJ Poprawski (83-626). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Mantes-la-Jolie, Yvelines.
- 1162 TJ Poprawski (83-623). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Limay, Yvelines.
- 1163 TJ Poprawski (071A). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.
- 1164 TJ Poprawski (070). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Jan 1984. Morocco: Jramma.
- 1165 TJ Poprawski (83-621). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1167 TJ Poprawski (83-701). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Nov 1983. France: Senneville.
- 1168 TJ Poprawski (83-702). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. 10 Oct 1983. France: Senneville.
- 1169 TJ Poprawski (83-703). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Senneville.
- 1170 TJ Poprawski (83-704). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. 23 Nov 1983. France: Senneville.
- 1171 TJ Poprawski (A2). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1172 TJ Poprawski (A4). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1173 TJ Poprawski (A5). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 16 Feb 1984. Morocco: Achouria.
- 1174 TJ Poprawski (A6). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Achouria.
- 1175 TJ Poprawski (A7). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 10 Feb 1984. Morocco: Achouria.
- 1176 TJ Poprawski (J1). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Jan 1984. Morocco: Jorf.
- 1177 TJ Poprawski (J2). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Jan 1984. Morocco: Jorf.
- 1178 TJ Poprawski (J3). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 7 Feb 1984. Morocco: Jorf.
- 1179 TJ Poprawski (J4). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 2 Dec 1983. Morocco: Jorf.
- 1180 TJ Poprawski (J5). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 2 Dec 1983. Morocco: Jorf.
- 1181 TJ Poprawski (J6). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 10 Feb 1984. Morocco: Jorf.
- 1182 TJ Poprawski (83-616). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Senneville.
- 1183 TJ Poprawski (J7). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 16 Feb 1984. Morocco: Jorf.
- 1185 [INRA Bb-142] TJ Poprawski. *Sitona discoideus* [Coleoptera: Curculionidae]. May 1977. France: Viols-le-Fort, Hérault.
- 1186 [INRA Bb-195] TJ Poprawski. Adult, *Caryedon serratus* [Coleoptera: Bruchidae]. 6 Jun 1983. France: La Minière.
- 1188 TJ Poprawski (E1). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Elbaya.
- 1189 TJ Poprawski (A1). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Achouria.
- 1190 TJ Poprawski (A3). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Feb 1984. Morocco: Achouria.
- 1191 TJ Poprawski (645). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Dec 1983. France: Orléans, Loiret.
- 1192 TJ Poprawski (646). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Anet, Eure-et-Loir.
- 1193 TJ Poprawski (647). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Ecos, Eure.
- 1194 TJ Poprawski (648). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Dec 1983. France: Meulan, Yvelines.
- 1306 TJ Poprawski (83-611). Adult, *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1983. France: Senneville.
- 1309 TJ Poprawski (A8). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.

- 1311 TJ Poprawski (A10). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1312 TJ Poprawski (A11). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1313 TJ Poprawski (A12). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 1389 TJ Poprawski (088). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 May 1984. France: Baron.
- 1398 TJ Poprawski (086). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 16 May 1984. France: Marsanne, Drôme.
- 1399 TJ Poprawski (087). Adult, *Hypera postica* [Coleoptera: Curculionidae]. Mar 1984. France: Marsanne, Drôme.
- 1450 [CNPAF 52; CP 125] F Moscardi. *Sternechus sub-signatus* [Coleoptera: Curculionidae]. 27 Mar 1984. Brazil: Londrina, Paraná.
- 1453 [CNPAF 84-02-30-2; CP 143] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 30 Mar 1984. Brazil: Francisco Beltrão, Paraná.
- 1454 [CNPAF 84-03-28-1F; CP 144] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1455 [CNPAF 84-03-28-D; CP 145] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1456 [CNPAF 84-04-03-6A; CP 146] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 30 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1458 [CNPAF 84-03-28-1E; CP 148] RA Daoust. *Cerotoma* sp. [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1459 [CNPAF 84-04-03-1E; CP 149] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1460 [CNPAF 84-04-03-1B; CP 150] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1461 [CNPAF 84-03-29-1; CP 151] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 29 Mar 1984. Brazil: Capitão Leônidas Marques, Paraná.
- 1462 [CNPAF 84-03-28-1G; CP 152] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1463 [CNPAF 84-03-28-1L; CP 153] RA Daoust. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1464 [CNPAF 84-04-03-6B; CP 154] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1465 [CNPAF 84-04-03-1A; CP 155] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1466 [CNPAF 84-03-31-6; CP 156] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 31 Mar 1984. Brazil: Sto. Antonio do Sudoeste, Paraná.
- 1467 [CNPAF 84-04-02-5A; CP 157] RA Daoust and BP Magalhães. *Cerotoma* sp. [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: São Carlos, Santa Catarina.
- 1469 [CNPAF 84-03-31-2; CP 159] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 31 Mar 1984. Brazil: Sto. Antonio do Sudoeste, Paraná.
- 1470 [CNPAF 84-04-02-3; CP 160] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1471 [CNPAF 84-04-02-4; CP 161] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1472 [CNPAF 84-04-02-2; CP 162] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1473 [CNPAF 84-04-02-1B; CP 163] RA Daoust, BP Magalhães and M Pinat. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1475 [CNPAF 84-04-03-1C; CP 165] RA Daoust and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 3 Apr 1984. Brazil: Augusto Pestana (Ijuí), Rio Grande do Sul.
- 1476 [CNPAF 84-04-25-1; CP 166] SM dos Santos. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 25 Apr 1984. Brazil: CNPAF, Goiânia, Goiás.
- 1480 SB Alves (252). *Hypothenemus hampei* [Coleoptera: Scolytidae] on coffee. Rec'd 6 Jul 1984. Brazil: São Paulo.
- 1483 SB Alves (61). *Cosmopolites sordidus* [Coleoptera: Curculionidae] on banana. Rec'd 6 Jul 1984. Brazil: Espírito Santo.
- 1491 [INRA Bb-169] GG Soares. *Sitona humeralis* [Coleoptera: Curculionidae]. Mar 1981. France: Lusignan, Vienne.
- 1509 I Majchrowicz (56) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.

- 1510 I Majchrowicz (58) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 1511 I Majchrowicz (75) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 1515 TJ Poprawski (0107). Adult, *Hypera postica* [Coleoptera: Curculionidae]. 13 Jun 1984. France.
- 1518 TJ Poprawski (0111). Adult, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. 27 Jun 1984. France: Entraigues, Vaucluse.
- 1519 TJ Poprawski (0112). Adult, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. 27 Jun 1984. France: Entraigues, Vaucluse.
- 1559 KV Deseö (88) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1560 KV Deseö (89) ← Campadelli. *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1561 KV Deseö (90) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1562 KV Deseö (91) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1563 KV Deseö (92) ← Campadelli. Larva, *Aromia moschata* [Coleoptera: Cerambycidae]. Feb 1984. Italy: Solarolo.
- 1566 S Keller (D155). [Coleoptera: Scolytidae]. 14 Aug 1984. Switzerland: Siblingen, Schaffhausen.
- 1619 L Allee. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 6 Aug 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1620 L Allee. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 6 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1621 L Allee. Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 6 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1622 L Allee. Larva, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 27 Jul 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1623 L Allee. Larva, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 27 Jul 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1624 L Allee. Larva, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 30 Jul 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1647 TJ Poprawski (0143). Adult, *Sitona* sp. [Coleoptera: Curculionidae]. 22 Aug 1984. France: Orval, Ardennes.
- 1678 M Shimazu (F-237). *Moechotypa diphysis* [Coleoptera: Cerambycidae]. Aug 1978. Japan: Tsushima, Nagasaki Prefecture.
- 1679 M Shimazu (F-263). *Monochamus alternatus* [Coleoptera: Cerambycidae]. 25 Aug 1978. Japan: Kumamoto Prefecture.
- 1683 M Shimazu (F-359(30)). *Anomala cuprea* [Coleoptera: Scarabaeidae]. 20 Nov 1980. Japan: Nagano Prefecture.
- 1704 L Allee (84-1). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1705 L Allee (84-3). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1706 L Allee (84-4). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1707 L Allee (84-5). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1708 L Allee (84-7). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1709 L Allee (84-8). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1710 L Allee (84-9). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1711 L Allee (84-10). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 8 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1712 L Allee (84-11). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1713 L Allee (84-12). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1721 L Allee (84-13). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 17 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.

- 1722 L Allee (84-19). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 31 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1723 L Allee (84-20). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 31 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1749 L Allee (84-16). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 17 Aug 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1750 L Allee (84-18). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. 31 Aug 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1775 L Allee (84-22). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1776 L Allee (84-23). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: control plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1777 L Allee (84-24). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: insecticide-treated plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1778 L Allee (84-25). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1779 L Allee (84-26). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: low rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1780 L Allee (84-27). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1781 L Allee (84-28). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Fall 1984. USA: high rate plot for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 1811 TJ Poprawski (0167C). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf. Identification verified genomically.
- 1815 TJ Poprawski (0165). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf.
- 1816 TJ Poprawski (0166A). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1817 TJ Poprawski (0166B). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1818 TJ Poprawski (0166C). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1819 TJ Poprawski (0166D). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Hauteban.
- 1820 TJ Poprawski (0167A). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf.
- 1821 TJ Poprawski (0167B). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. Acc'd 22 Jan 1985. Morocco: Jorf.
- 1833 SB Alves (267). *Cosmopolites* sp. [Coleoptera: Curculionidae]. Rec'd 21 Jan 1985. Brazil.
- 1848 HS Whitney (R629) ← HA Moeck. Adult, *Rhizophagus grandis* [Coleoptera: Rhizophagidae]. Sep 1984. Belgium. Identification verified genomically.
- 1849 HA Moeck and HS Whitney (R630). Adult, *Dendroctonus ponderosae* [Coleoptera: Scolytidae]. Oct 1984. Canada: Lye Lake Plot, Riske Creek, British Columbia.
- 1852 P Spencer and HS Whitney (R634). *Dryocoetes confusus* [Coleoptera: Scolytidae]. Jun 1984. Canada: Top of the World Park, British Columbia.
- 1853 HS Whitney (R636) ← HA Moeck. Larva, *Dendroctonus ponderosae* [Coleoptera: Scolytidae]. 5 Oct 1984. Canada: laboratory colony, British Columbia.
- 1854 HA Moeck and HS Whitney (R637). Adult, *Pytho* sp. [Coleoptera: Pythidae]. Oct 1984. Canada: Lye Lake Plot, Riske Creek, British Columbia.
- 1954 [CNPAF 85-7-23-1; CP 179] JC Lord and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 23 Jul 1985. Brazil: Santana do Ipanema, Alagoas.
- 1956 [CNPAF 85-7-22; CP 181] JC Lord and BP Magalhães. *Coleomegilla maculata* [Coleoptera: Coccinellidae]. 22 Jul 1985. Brazil: União dos Palmares, Alagoas.
- 1961 [CNPAF 85-7-24-4; CP 187] JC Lord and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 24 Jul 1985. Brazil: Ribeira do Pombal, Bahia.
- 1966 [CP 168] D Gabriel. *Anthonomus grandis* [Coleoptera: Curculionidae]. 1983. Brazil: Fazenda St. Genebra, Campinas, São Paulo.
- 1971 [ARSEF 1451 (deaccessioned); CNPAF 84-3-12; CP 124] H da Silva Coelho. [Coleoptera: Chrysomelidae]. 12 Mar 1984. Brazil: CNPAF, Goiânia, Goiás.
- 1975 TJ Poprawski (0178). Adult, [Coleoptera: Carabidae]. Acc'd 25 Sep 1985. France: Saint-Genis de Saintonge, Charente-Maritime.
- 1980 TJ Poprawski (0183). Adult, [Coleoptera]. Acc'd 25 Sep 1985. France: Saint-Genis de Saintonge, Charente-Maritime.

- 1982 TJ Poprawski (0185). Egg, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Acc'd 25 Sep 1985. France: La Repara.
- 2010 CIRPON ← M Yasem de Romero. *Cycloneda sanguinea* [Coleoptera: Coccinellidae]. 1984. Argentina: Tucumán.
- 2030 HS Whitney (CPB-1). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Oct 1985. USA: low rate plot (2) for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 2031 HS Whitney (CPB-2). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] in soil. Oct 1985. USA: low rate plot (2) for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 2032 HS Whitney (CPB-3). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] in soil. Oct 1985. USA: low rate plot (2) for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 2033 HS Whitney (LBB-multi). *Coccinella* sp. [Coleoptera: Coccinellidae]. Oct 1985. USA: low rate plot (2) for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 2034 HS Whitney (LBB-multi 2). *Coccinella* sp. [Coleoptera: Coccinellidae]. Oct 1985. USA: low rate plot (2) for ARSEF 252 spray tests, Agway Research Farm, Tully, New York.
- 2040 MC Rombach (171085-1) ← SB Ahn (E5-1). [Coleoptera: Curculionidae]. 17 Oct 1985. Republic of Korea.
- 2075 [CNPAF 85-7-24; CP 183] JC Lord and BP Magalhães. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 24 Jul 1985. Brazil: Ribeira do Pombal, Bahia.
- 2079 [CP 198] JC Lord and BP Magalhães. *Systema* sp. [Coleoptera: Chrysomelidae]. 1985. Brazil: CNPAF, Goiânia, Goiás.
- 2248 DA Rodriguez Sierra (106 Bb). *Premnotrypes vorax* [Coleoptera: Curculionidae]. Feb 1986. Colombia: Tibaitata, Mosquera, Nariño.
- 2249 DA Rodriguez Sierra (203 Bb). Adult, *Ancognatha scarabaeoides* [Coleoptera: Scarabaeidae]. Feb 1986. Colombia: Tibaitata, Mosquera, Nariño.
- 2250 DA Rodriguez Sierra (201 Bb). *Ancognatha scarabaeoides* [Coleoptera: Scarabaeidae]. Feb 1986. Colombia: Tibaitata, Mosquera, Nariño.
- 2270 BT Forschler (RF-2). Adult, *Cyrtopistomus castaneus* [Coleoptera: Curculionidae]. Sep 1986. USA: Robinson Forest, Univ. of Kentucky, Breathitt County, Kentucky.
- 2330 PI Espinosa Camarena. *Diabrotica virgifera* [Coleoptera: Chrysomelidae]. 1986. Mexico: Zapotlanejo, Jalisco.
- 2463 TJ Poprawski (8710). Adult, *Galerucina* sp. [Coleoptera: Chrysomelidae]. 2 Feb 1987. France: Béhoust, Yvelines.
- 2509 [CP 229] DR Sosa-Gómez. *Maecolaspis monrosi* [Coleoptera: Chrysomelidae]. 8 Apr 1986. Argentina: La Virginia, Tucumán.
- 2511 [CP 221] F Moscardi. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. Acc'd 8 Dec 1987. Brazil: CNPS, Londrina, Paraná.
- 2512 [CP 237] J Maria. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 29 Jun 1987. Brazil: Manaus, Amazonas.
- 2515 [CP 227] DR Sosa-Gómez. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 28 Mar 1986. Argentina: Blanco Pozo, Tucumán.
- 2520 [CP 222] F Moscardi. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 1983. Brazil: CNPS, Londrina, Paraná.
- 2559 [ARSEF 2638; CP 230] SB Alves (290). *Anthonomus grandis* [Coleoptera: Curculionidae]. Acc'd 13 Apr 1988. Brazil: ESALQ, Piracicaba, São Paulo.
- 2579 JJ Jackson. *Diabrotica barberi* [Coleoptera: Chrysomelidae]. 18 Jul 1988. USA: laboratory colony, Brookings, South Dakota.
- 2580 MD Bryan. Adult, *Coccinella septempunctata* [Coleoptera: Coccinellidae]. Jul 1988. USA: laboratory cages, field collected population, Niles, Michigan.
- 2625 [CNPAF 88-5-6; CP 240] DW Roberts ← EC de Moura. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 6 May 1988. Brazil: CNPAF, Goiânia, Goiás.
- 2626 [CNPAF 88-5-6A; CP 241] DW Roberts ← EC de Moura. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 6 May 1988. Brazil: CNPAF, Goiânia, Goiás.
- 2638 [ARSEF 2559; CP 230] DW Roberts ← SB Alves (290). *Anthonomus grandis* [Coleoptera: Curculionidae]. Rec'd 23 Nov 1988. Brazil: ESALQ, Piracicaba, São Paulo.
- 2639 DW Roberts ← SB Alves (292). *Anthonomus grandis* [Coleoptera: Curculionidae]. Rec'd 23 Nov 1988. Brazil: ESALQ, Piracicaba, São Paulo.
- 2642 DW Roberts ← SB Alves (695). *Metamasius hemipterus* [Coleoptera: Curculionidae]. Rec'd 23 Nov 1988. Brazil: Londrina, Paraná.
- 2676 WA Gardner and RD Harrison. Adult, *Curculio caryae* [Coleoptera: Curculionidae] on pecan. 25 Aug 1988. USA: Griffin, Georgia.
- 2685 [IMI 327908] C Prior (Kenya 1). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Kenya.
- 2686 [IMI 327909] C Prior (Kenya 2). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Kenya.
- 2687 [IMI 330194] C Prior (Kenya 3). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Kenya.

- 2688 [IMI 327910] C Prior (Togo 1). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Togo.
- 2689 [IMI 329064] C Prior (Togo 2). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Togo.
- 2690 [IMI 329065] C Prior (Togo 3). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Togo.
- 2691 [IMI 329066] C Prior (Togo 4). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Togo.
- 2692 [IMI 329067] C Prior (Togo 5). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Togo.
- 2693 [IMI 327906] C Prior. *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 19 Mar 1989. Mexico.
- 2695 Abbott Laboratories (89-201). *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Rec'd 24 Mar 1989. Commonwealth of Independent States.
- 2938 [CP 270] SP Wraight ← R da Silva Carvalho. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 8 Nov 1988. Brazil: CNPAF, Goiânia, Goiás.
- 2942 [CP 274] SP Wraight ← MGA de Lima. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 28 Nov 1988. Brazil: CNPAF, Goiânia, Goiás.
- 2945 [CP 290] SP Wraight ← SB Alves. *Anthonomus grandis* [Coleoptera: Curculionidae]. 1988. Brazil: Piracicaba, São Paulo.
- 2946 [CP 281] SP Wraight ← SB Alves. *Anthonomus grandis* [Coleoptera: Curculionidae]. 1988. Brazil: Piracicaba, São Paulo.
- 2961 CENARGEN (CG 165). *Lagria vilosa* [Coleoptera: Lagriidae]. Rec'd 14 Mar 1990. Brazil: Formosa, Goiás.
- 2983 T Searle (CW1). Adult, *Listronotus oregonensis* [Coleoptera: Curculionidae]. 1988. Canada: Saint-Jean, Québec.
- 2984 T Searle (CW2). Adult, *Listronotus oregonensis* [Coleoptera: Curculionidae]. 1988. Canada: Saint-Jean, Québec.
- 2985 T Searle (CW3). Adult, *Listronotus oregonensis* [Coleoptera: Curculionidae]. 1989. Canada: Saint-Jean, Québec.
- 2986 T Searle (CW4). Adult, *Listronotus oregonensis* [Coleoptera: Curculionidae]. 1989. Canada: Saint-Jean, Québec.
- 2987 T Searle (LD1). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Summer 1988. Canada: Sainte-Clotilde, Québec.
- 2988 T Searle (LD2). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Summer 1988. Canada: Sainte-Clotilde, Québec.
- 2989 T Searle (LD3). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Summer 1988. Canada: Sainte-Clotilde, Québec.
- 2990 T Searle (LD4). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Summer 1988. Canada: Sainte-Clotilde, Québec.
- 2991 T Searle (LD5). Adult, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae]. Summer 1988. Canada: Sainte-Clotilde, Québec.
- 3037 W Mechaber (weevil#2354). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Gaylussacia baccata*. 20 May 1990. USA: Carver, Massachusetts.
- 3040 WE Jones (SHB). [Coleoptera: Scolytidae] inside macadamia nut kernel. May 1990. USA: Kona, Island of Hawaii, Hawaii.
- 3097 Fermone Corporation (FCI-7744). *Anthonomus grandis* [Coleoptera: Curculionidae]. Rec'd 18 Oct 1990. USA: Rio Grande Valley, Texas. **RESTRICTED ACCESS:** contact Curator.
- 3098 L Loch ← G Albuquerque. *Oryzophagus oryzae* [Coleoptera: Curculionidae] on rice. Rec'd 29 Oct 1990. Brazil: Pôrto Alegre, Rio Grande do Sul.
- 3111 DW Watson (P 89) ← L Meinke. *Diabrotica virgifera* [Coleoptera: Chrysomelidae]. 13 Sep 1990. USA: Mead, Nebraska.
- 3112 JK Cawthra and CJ Geden (P 89). [Coleoptera: Staphylinidae] originally from beef feed lot. 10 Sep 1990. USA: laboratory colony, Lincoln, Nebraska.
- 3197 GW Riethmacher (Bet1). [Coleoptera] on potatoes. 12 Oct 1990. Philippines: La Trinidad, Benguet.
- 3198 GW Riethmacher (Bet2). [Coleoptera] on potatoes. 12 Oct 1990. Philippines: La Trinidad, Benguet.
- 3199 GW Riethmacher (Bet3). [Coleoptera] on potatoes. 12 Oct 1990. Philippines: La Trinidad, Benguet.
- 3219 [CP 478(479?)] DW Roberts ← JM Gomes. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Rec'd 8 Feb 1991. Brazil.
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- 3309 J Gutierrez Samperio (25) ← ERD Reyes. *Diabrotica balteata* [Coleoptera: Chrysomelidae] on corn. 1990. Mexico: Colima.
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- 5449 TJ Poprawski (TJP914) ← G Mercadier (EBCL 97022). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5450 TJ Poprawski (TJP915) ← G Mercadier (EBCL 97023). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5451 TJ Poprawski (TJP916) ← G Mercadier (EBCL 97024). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
- 5452 TJ Poprawski (TJP917) ← G Mercadier (EBCL 97025). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.

- 5453 TJ Poprawski (TJP918) ← G Mercadier (EBCL 97026). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
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- 5456 TJ Poprawski (TJP921) ← G Mercadier (EBCL 97013). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
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- 5477 G Mercadier (EBCL 97006). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 10 Jan 1997. Ivory Coast: RCI.5, Abengourou.
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- 5482 G Mercadier (EBCL 97032). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 9 Jan 1997. Ivory Coast: RCI.3, Ayenoua.
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- 5484 G Mercadier (EBCL 97034). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Jan 1997. Ivory Coast: RCI.6, Toumbokri.
- 5485 G Mercadier (EBCL 97036). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Jan 1997. Ivory Coast: RCI.7, Bozi.
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- 5490 G Mercadier (EBCL 97041). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 24 Jan 1997. Togo: T.3, Gbadi-Gaodo.
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- 5836 T Steenberg (SSL 6). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from adult *Sitona lineatus* [Coleoptera: Curculionidae].
- 5838 T Steenberg (SSL 25). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from an unidentified mite [Arachnida: Acari].
- 5839 T Steenberg (SSL 27). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from *Tachyporuss* sp. [Coleoptera: Staphylinidae].
- 5840 T Steenberg (SSL 28). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from unidentified curculionid beetle [Coleoptera: Curculionidae].
- 5843 T Steenberg (SSL 55). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated *Anotylus* sp. [Coleoptera: Staphylinidae].
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- 6057 BL Parker (SPT-U-253). Adult, [Coleoptera: Tenebrionidae]. 16 Jan 1999. Uzbekistan: SW of Sazagan, Sazagan.
- 6058 BL Parker (SPT-U-254). Adult, [Coleoptera: Scarabaeidae]. 16 Jan 1999. Uzbekistan: Site d, SW of Samarkand, Mirankul region.
- 6059 BL Parker (SPT-U-255). Pupa, [Coleoptera: Carabidae]. 16 Jan 1999. Uzbekistan: Site d, SW of Samarkand, Mirankul region.
- 6061 BL Parker (SPT-U-261). Adult, [Coleoptera: Coccinellidae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6062 BL Parker (SPT-U-262). Adult, [Coleoptera: Coccinellidae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
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- 6092 BL Parker (SPT-U-323). Adult, [Coleoptera: Coccinellidae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6095 BL Parker (SPT-U-335). Adult, [Coleoptera: Coccinellidae]. 17 Jan 1999. Uzbekistan: GPS coordinates - N 39°53.843', E 067°41.643'.
- 6096 BL Parker (SPT-U-338). Adult, [Coleoptera: Tenebrionidae]. Jan 1999. Uzbekistan: GPS coordinates - N 39°26.295', E 067°20.041'.
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- 10400 G Kyei-Poku (L24A). Pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 30 May 2008. Canada: London, Ontario. GenBank sequence: GQ354228 (ITS).
- 10401 G Kyei-Poku (L25A-A). Pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 30 May 2008. Canada: London, Ontario. GenBank sequence: GQ354229 (ITS).
- 10402 G Kyei-Poku (L25BC). Pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 30 May 2008. Canada: London, Ontario. GenBank sequence: GQ354230 (ITS).
- 10403 G Kyei-Poku (L26A). Pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 30 May 2008. Canada: London, Ontario. GenBank sequence: GQ354231 (ITS).
- 10404 G Kyei-Poku (L27A). Pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 30 May 2008. Canada: London, Ontario. GenBank sequence: GQ354232 (ITS).

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- 10407 G Kyei-Poku (L31A). Pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 30 May 2008. Canada: London, Ontario. GenBank sequence: GQ354235 (ITS).
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- 10409 G Kyei-Poku (L34C). Pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 30 May 2008. Canada: London, Ontario. GenBank sequence: GQ354238 (ITS).
- 10410 G Kyei-Poku (L35C). Pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 30 May 2008. Canada: London, Ontario. GenBank sequence: GQ354239 (ITS).
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- 10426 G Kyei-Poku (L68A). Pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 30 May 2008. Canada: London, Ontario. GenBank sequence: GQ354255 (ITS).
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- 10431 G Kyei-Poku (L76A). Pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 16 May 2008. Canada: London, Ontario. GenBank sequence: GQ354265 (ITS).
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- 10437 G Kyei-Poku (B22A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 24 Apr 2008. Canada: Windsor, Ontario. GenBank sequence: GQ354260 (ITS).
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- 10440 G Kyei-Poku (LDY20A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 8 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444272 (ITS).
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- 10445 G Kyei-Poku (LDY42A). Gallery/frass, *Agrilus planipennis* [Coleoptera: Buprestidae]. 8 Jul 2009. Canada: London, Ontario.
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- 10448 G Kyei-Poku (LHY4A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10449 G Kyei-Poku (LHY07A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444274 (ITS).
- 10450 G Kyei-Poku (LHY8A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10451 G Kyei-Poku (LHY10A). Adult, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444275 (ITS).
- 10452 G Kyei-Poku (LHY11A). Adult, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10453 G Kyei-Poku (LHY12A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10454 G Kyei-Poku (LHY13A). Adult, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10455 G Kyei-Poku (LHY14A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10456 G Kyei-Poku (LHY15A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10457 G Kyei-Poku (LHY16A). Gallery/frass, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444276 (ITS).
- 10458 G Kyei-Poku (LHY17A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444277 (ITS).
- 10459 G Kyei-Poku (LHY18A). Adult, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10460 G Kyei-Poku (LHY19A). Pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444278 (ITS).
- 10461 G Kyei-Poku (LHY21A). Gallery/frass, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10462 G Kyei-Poku (LHY22A). Pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444279 (ITS).
- 10463 G Kyei-Poku (LHY44A). Adult, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.

- 10464 G Kyei-Poku (LHY47A). Gallery/frass, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario.
- 10465 G Kyei-Poku (LHY48A). Gallery/frass, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444280 (ITS).
- 10466 G Kyei-Poku (LHY49A). Gallery/frass, *Agrilus planipennis* [Coleoptera: Buprestidae]. 7 Jul 2009. Canada: London, Ontario. GenBank sequence: HQ444281 (ITS).
- 10467 G Kyei-Poku (SY07A). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 9 Jul 2009. Canada: Sarnia, Ontario.
- 10468 G Kyei-Poku (SY16A). Adult, *Agrilus planipennis* [Coleoptera: Buprestidae]. 9 Jul 2009. Canada: Sarnia, Ontario.
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[Sordariomycetes: Hypocreales]
Cordycipitaceae
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- 6890 H Cortez Madrigal (B1). [Coleoptera: Chrysomelidae] on *Eucalyptus* sp. 30 Sep 1999. Mexico: Huimanguillo, Tabasco.
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[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Beauveria tenella* (Saccardo) MacLeod.
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- 3054 [MAF F1] T Glare. *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: South Island.
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 - 4466 LA Lacey (94144). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
 - 4467 LA Lacey (94145). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
 - 4468 LA Lacey (94146). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
 - 4469 LA Lacey (94147). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
 - 4470 LA Lacey (94148). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
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 - 4473 LA Lacey (94151). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 4 May 1994. China: Cangzhou.
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 - 5355 LA Lacey (96015). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
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 - 5361 LA Lacey (96021). *Melolontha* sp. [Coleoptera: Scarabaeidae]. 30 May 1996. Germany: Lampertheim, Hesse.
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 - 6214 AE Hajek (2A). Adult, *Barypeithes pellucida* [Coleoptera: Curculionidae]. Jun 1998. USA: Yellow Barn State Forest, Dryden, New York. Identification verified genomically.
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- Beauveria caledonica* Bissett & Widden
[Sordariomycetes: Hypocreales]
Cordycipitaceae
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8024 NV Meyling (KVL 03-70). *Amphimallon solstitiale* [Coleoptera: Scarabaeidae] from soil. 12 Jul 2000. Denmark: Jægerspris, Zealand. Identification verified genomically.

Beauveria lii S. L. Zhang, B. Huang (sp. nov., unpublished)
[Sordariomycetes: Hypocreales]
Cordycipitaceae

11741 [RCEF 5500] B Huang. Larva, *Henosepilachna vigintioctopunctata* [Coleoptera: Coccinellidae] (XY20100923-63). 23 Sep 2010. PR China: Xunyi County, Xianyang City, Shaanxi Province. CULTURE EX TYPE. Sequence data: GenBank.

Beauveria malawiensis SA Rehner & Aquino de Muro
[Sordariomycetes: Hypocreales]
Cordycipitaceae

7760 [IMI 228343] *Phoracantha semipunctata* [Coleoptera: Cerambycidae]. 4 May 1978. Malawi: Zomba, Southern. CULTURE EX TYPE.

Beauveria pseudobassiana SA Rehner & Humber
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Defined primarily by genotypic characters

157 M Wojciechowska (1110). *Anthicus floralis* [Coleoptera: Anthicidae]. Rec'd 18 Jul 1977. Poland.

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3063 [MAF F13] T Glare. *Sitona* sp. [Coleoptera: Curculionidae]. Rec'd Oct 1990. New Zealand: South Island.

3065 [MAF F28] T Glare. *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd Oct 1990. New Zealand: South Island.

3066 [MAF F29] T Glare. *Paropsis charybdis* [Coleoptera: Chrysomelidae]. Rec'd Oct 1990. New Zealand: South Island.

3070 [MAF F33] T Glare. *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: Christchurch, South Island.

4274 [DAT 143] AC Rath (F143). Adult, *Adoryphorus coultonii* [Coleoptera: Scarabaeidae]. 23 Jun 1989. Australia: Glen Morey, Woodbury, Tasmania.

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4933 LA Lacey (95035). *Tomicus minor* [Coleoptera: Scolytidae] Pinus nigra. 4 Apr 1995. France: Saint-Etienne, de Gourgues.

5070 LA Lacey (95062). *Tomicus minor* [Coleoptera: Scolytidae]. 5 Oct 1995. France: Lodève, Hérault.

5622 I Vänninen (SF85-2). Larva, *Tribolium castaneum* [Coleoptera: Tenebrionidae] as bait from soil. 18 Jul 1985. Finland: Pernaja.

5668 BL Parker (SPT-010). [Coleoptera]. 18 Jan 1998. Turkey: Hurbit Mountain, Hatay.

5669 BL Parker (SPT-018). [Coleoptera: Scarabaeidae]. 19 Jan 1998. Turkey: Karadağ Mountain, Yavuzeli, Gaziantep.

5678 BL Parker (SPT-020). [Coleoptera: Coccinellidae]. 19 Jan 1998. Turkey: Karadağ Mountain, Yavuzeli, Gaziantep.

6229 [RCEF 0231] Adult, [Coleoptera: Scolytidae (Tribe Ipini)]. 8 Aug 1996. PR China: Guizhou Province. Identification verified genomically.

Beauveria sungii SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Cordycipitaceae. Defined primarily by genotypic characters

1685 M Shimazu (F-450). *Lachnosterna morosa* [Coleoptera: Scarabaeidae]. Acc'd 2 Nov 1984. Japan: Ibaraki Prefecture. EX-TYPE ISOLATE for species defined genomically.

5689 JM Sung (KEFC-251). [Coleoptera: Scarabaeidae]. 20 Aug 1993. Republic of Korea: Gangwon-do. From teleomorph morphologically resembling *Cordyceps scarabaeicola*. Identification of anamorph verified genomically.

7279 JM Sung (EFCC 5014). [Coleoptera: Chrysomelidae]. 11 Jul 2000. Republic of Korea: Guryungryung, Gangwon-do. From teleomorph morphologically resembling *Cordyceps scarabaeicola*. Identification of anamorph verified genomically.

7280 JM Sung (EFCC 5657). [Coleoptera: Chrysomelidae]. Aug 2000. Republic of Korea: Guryungryung, Gangwon-do. From teleomorph morphologically resembling *Cordyceps scarabaeicola*. Identification of anamorph verified genomically.

Beauveria varroae SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Cordycipitaceae. Defined primarily by genotypic characters

2694 [IMI 328059] C Prior. *Larinus* sp. [Coleoptera:

Curculionidae]. Rec'd 19 Mar 1989. Switzerland.
 Identification verified genomically.

***Candida* sp.**

[Saccharomycetes: Saccharomycetales]

All of these strains grow as yeasts with facultative capacities to attack cockroaches. It remains uncertain whether they can be primary pathogens or depend upon the host to be stressed, wounded, or otherwise compromised.

5729 TJ Poprawski. *Hypothenemus hampei* [Coleoptera: Scolytidae] from laboratory colony. Rec'd 20 May 1998. USA: Weslaco, Texas.

***Cladosporium sphaerospermum* Penzig**

[Dothideomycetes: Capnodiales]

Mycosphaerellaceae

6516 RT Mayer. Larva, *Diaprepes abbreviata* [Coleoptera: Curculionidae]. Rec'd 10 May 2000. USA: Florida.

***Clonostachys rosea* (Link : Fries) Schroers, Samuels, Seifert & W Gams**

[Sordariomycetes: Hypocreales]

Bionectriaceae

9491 [SRCAMB B-46] V Likhovidov ← BA Borisov. Larva, [Coleoptera: Scarabaeidae]. Jul 2001. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-279.

11678 Z Demirbag (As11) ← S Kocagevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.

11682 Z Demirbag (As15) ← S Kocagevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.

11687 Z Demirbag (As20) ← S Kocagevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.

***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*.

80 RG Kenneth (3081) or (C.o. 15) ← A Uziel. Larva, *Hypera variabilis* [Coleoptera: Curculionidae]. Mar 1976. Israel: alfalfa field, Sedé Eliyahu.

81 RG Kenneth (3082) or (C.o. 10) ← A Uziel. Larva, *Hypera variabilis* [Coleoptera: Curculionidae]. Mar 1976. Israel: Sedé Eliyahu.

***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.

1572 S Keller (490). *Ceutorhynchus napi* [Coleoptera: Curculionidae]. 14 Jun 1984. Switzerland.

1573 S Keller (491). *Ceutorhynchus napi* [Coleoptera: Curculionidae]. 14 Jun 1984. Switzerland.

1574 S Keller (493). *Ceutorhynchus napi* [Coleoptera: Curculionidae]. 14 Jun 1984. Switzerland.

1575 S Keller (494). *Ceutorhynchus napi* [Coleoptera: Curculionidae]. 14 Jun 1984. Switzerland.

***Conidiobolus osmodes* Drechsler**

[Entomophthoromycotina: Entomophthorales]

Ancylistaceae

79 [FPMI 695] RG Kenneth (3080) or (3) ← A Uziel. Larva, *Hypera variabilis* [Coleoptera: Curculionidae]. Mar 1976. Israel: Sedé Eliyahu.

***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

3718 RA LeBrun ← J Hanula (C-4). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. Summer 1991. Location not specified.

4852 JM Sung (C-331). Adult, *Sitophilus oryzae* [Coleoptera: Curculionidae]. Jul 1994. Republic of Korea: KNU experiment Forest, Kangwon National University.

7848 [SRCAMB B-47] V Likhovidov ← BA Borisov. Larva, [Coleoptera: Scarabaeidae] Isolated from stroma. Aug 2002. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-200.

***Cordyceps brongniartii* Shimazu**

[Sordariomycetes: Hypocreales]

Cordycipitaceae

7516 M Shimazu (F-621). Larva, *Anomala cuprea* [Coleoptera: Scarabaeidae]. 27 Jul 1987. Japan: Nishidake, Nagano Prefecture. Isolated from a perithecium. Anamorph is *Beauveria brongniartii*. Identification verified genomically.

- 7517 M Shimazu (F-638). Larva, *Anomala cuprea* [Coleoptera: Scarabaeidae]. 16 Apr 1988. Laboratory manipulation. Isolated from an ascospore. Anamorph is *Beauveria brongniartii*. Identification verified genomically.

***Cordyceps scarabaeicola* Kobayasi**

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Anamorph: *Beauveria*

- 7277 JM Sung (EFCC 2533). [Coleoptera: Chrysomelidae]. 6 Aug 1998. Nepal.
- 7278 JM Sung (EFCC 2535). [Coleoptera: Chrysomelidae]. 6 Aug 1998. Nepal.

***Engyodontium rectidentatum* (Matsush.) W. Gams,**

de Hoog, Samson & H.C. Evans

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 7805 [SRCAMB B-158] V Likhovidov ← BA Borisov. [Coleoptera: Scarabaeidae] Isolated from unripened stroma. 9 Aug 2002. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-269.

***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.

- 2525 J Eilenberg (KVL 34). *Rhagonycha fulva* [Coleoptera: Cantharidae]. Aug 1987. Denmark: Holmegaards Mose, Zealand.
- 2536 J Eilenberg (KVL 18). *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zealand.
- 2537 J Eilenberg (KVL 23). *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zealand.
- 2538 J Eilenberg (KVL 20). *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zealand.
- 2539 J Eilenberg (KVL 22). *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zealand.
- 2553 [ARSEF 2662 (deaccessioned)] J Eilenberg (KVL 19) and J Martin. *Rhagonycha fulva* [Coleoptera: Cantharidae]. 31 Jul 1986. Denmark: Holmegaards Mose, Zealand.
- 2663 J Eilenberg (KVL 33) ← J Martin. *Rhagonycha fulva* [Coleoptera: Cantharidae]. Aug 1987. Denmark: Holmegaards Mose, Zealand.

- 2664 J Eilenberg (KVL 40). [Coleoptera: Cantharidae]. Jun 1987. Denmark: Brogaard, Lammfjorden.

- 5352 KT Hodge. Adult, [Coleoptera: Cantharidae] Willow. 18 Jun 1996. USA: German Cross Road, Dryden, New York.

***Evlachovaea* sp.**

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 1017 HS Whitney (R599). Adult, *Dendroctonus rufipennis* [Coleoptera: Scolytidae]. Jun 1975. Canada: nr. Hixon, British Columbia.
- 7403 G Zimmermann (E 1622/01) ← U Heimbach. Larva, *Agriotes* sp. [Coleoptera: Elateridae]. Oct 2001. Germany: Neustadt an der Weinstrasse, Rheinhessen-Pfalz.
- 7551 [CIAT 301] A Gaigl. *Phyllophaga menetriesi* [Coleoptera: Scarabaeidae]. 14 Jan 2004. Colombia: Caldono, Cauca. 1500 m elevation.

***Evlachovaea kintrischica* Borisov & Tarasov**

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 7218 [CMPPB 150; SRCAMB B-184] V Likhovidov ← BA Borisov (B.B. 2). *Agelastica alni* [Coleoptera: Chrysomelidae] in litter. 21 Sep 1991. Republic of Georgia: Kintrishi Valley, near Cordon Tskhemlovani, Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. 360 m elevation. Field Collection Number F-306. CULTURE EX TYPE.
- 8058 [CMPPB 150; SRCAMB B-184] V Likhovidov ← BA Borisov (B.B. 2). *Agelastica alni* [Coleoptera: Chrysomelidae] in litter. 21 Sep 1991. Republic of Georgia: Kintrishi Valley, near Cordon Tskhemlovani, Kintrishskiy Nature Reserve, Autonomous Republic of Adjara. 360 m elevation. Field Collection Number F-306. CULTURE EX TYPE.

***Fusarium* sp.**

[Sordariomycetes: Hypocreales]

Nectriaceae

- 1310 [NRRL 25082] TJ Poprawski (A9). Adult, *Sitona discoideus* [Coleoptera: Curculionidae]. 8 Feb 1984. Morocco: Achouria.
- 2568 [NRRL 25091] F Agudelo-Silva ← RL Bugg. Larva, *Chalcodermus aeneus* [Coleoptera: Curculionidae]. Nov 1987. USA: Tifton, Georgia.
- 2569 [NRRL 25092] F Agudelo-Silva ← RL Bugg. Larva, *Chalcodermus aeneus* [Coleoptera: Curculionidae]. Nov 1987. USA: Tifton, Georgia.
- 3030 [NRRL 25097] W Mechaber (weevil#1318). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Lyonia mariana*. 1 Jun 1990. USA: Pemberton, New Jersey.

- 3031 [NRRL 25098] W Mechaber (weevil#1334). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Lyonia mariana*. 1 Jun 1990. USA: Pemberton, New Jersey.
- 3032 [NRRL 25099] W Mechaber (weevil#1354). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Lyonia mariana*. 1 Jun 1990. USA: Pemberton, New Jersey.
- 4011 [NRRL 25123] T Steenberg (193) ← J Martin. *Lilioceris lili* [Coleoptera: Chrysomelidae]. Jun 1989. Denmark: Garden of Agricultural University, Zealand.
- 4825 [NRRL 52764] JD Vandenberg (27-2). Adult, *Oti-orhynchus ligustici* [Coleoptera: Curculionidae] on *Medicago sativa* L., alfalfa. 26 Jun 1994. USA: Alfalfa field, Great Bend, New York.
- 5461 TJ Poprawski (TJP926) ← G Mercadier (EBCL 97031). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 14 Jan 1997. Ivory Coast: RCI.7, Bozi. 89099.
- 5875 FE Vega (EBCL 98004). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.
- 5878 FE Vega (EBCL 98011). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.
- 5879 FE Vega (EBCL 98012). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. 19 Oct 1997. Uganda: Chesogok.
- 6602 [NRRL 52701] FE Vega. *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 28 Sep 2000. Colombia: Caldas.
- 7063 RA Humber (2A). *Hypothenemus hampei* [Coleoptera: Scolytidae]. 13 Jul 2001. Indonesia: Konawe, Sulawesi.
- 8131 [NRRL 52740] LS Bauer and H Liu (MF-221). Pre-pupa, *Agrilus planipennis* [Coleoptera: Buprestidae]. 1 Dec 2005. USA: Ann Arbor, Michigan.
- 8266 [NRRL 52741] RJ Pereault (Walton Spray pci#3). *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Aug 2006. USA: orchard B, Frankfort, Michigan.
- 8267 [NRRL 52743] RJ Pereault (Walton Control pci#1). *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Aug 2006. USA: orchard B, Frankfort, Michigan.
- 9273 Z Demirbag and E Tanyeli (Dm-7). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 9274 Z Demirbag and E Tanyeli (Dm-8). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 11670 Z Demirbag (As3) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.
- 11671 Z Demirbag (As4) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.
- 11672 Z Demirbag (As5) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.
- 11673 Z Demirbag (As6) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.
- 11674 Z Demirbag (As7) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.
- 11675 Z Demirbag (As8) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.
- 11677 Z Demirbag (As10) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.
- 11679 Z Demirbag (As12) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.
- 11680 Z Demirbag (As13) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.
- 11684 Z Demirbag (As17) ← S Kocaçevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.
- Harposporium janus*** Shimazu & Glockling
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae
- 5601 SL Glockling. Larva, [Coleoptera: Cerambycidae] on tree trunk. Rec'd 2 Dec 1997. Japan.
- Hirsutella fusiformis*** Speare
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae
- 5474 [ATCC 32804; CBS 205.33] *Brachyderes incanus* [Coleoptera: Curculionidae]. Rec'd 13 May 1997. Netherlands.
- Hirsutella thompsonii*** Fisher
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae. The separation of *H. thompsonii* into two varieties based on whether synnemata may or may not form in culture is unreliable and probably artificial. Some strains included may form synnemata but do not do so consistently; these strains could be recognized as *Hirsutella thompsonii* var. *synnematos* Samson, McCoy & O'Donnell if accepting this variety as a legitimate taxon.
- 11819 [ERL 2033] S Gouli and V Gouli (THR-11-22). [Coleoptera: Carabidae]. 2011. USA: Underhill, Vermont.
- Isaria* sp.**
[Sordariomycetes: Hypocreales]
Cordycipitaceae
- 9519 [SRCAMB VL-1914/1] V Likhovidov. Larva, [Coleoptera]. 22 Aug 2005. Belarus: Belavezhskaia Puscha

National Park. Field Collection Number F-853.

Isaria amoenerosea P. Hennings

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Major synonym: *Paecilomyces amoeneroseus* (Hennings) Samson. Reclassified during a phylogenetically necessary reclassification of *Paecilomyces* Section *Isarioidea*.

- 741 [CNPAF 82-1-15-06; CP 19] RA Daoust. *Lagria vilosa* [Coleoptera: Lagriidae]. Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 744 [CNPAF 82-2-15-05; CP 26] RA Daoust. *Lagria vilosa* [Coleoptera: Lagriidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 2220 [CNPAF 86-06-05-4; CP 216] DW Roberts ← GS da Silva. *Lagria vilosa* [Coleoptera: Lagriidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2958 CENARGEN (CG 162). *Lagria vilosa* [Coleoptera: Lagriidae]. Rec'd 14 Mar 1990. Brazil: Formosa, Goiás.
- 2959 CENARGEN (CG 163). *Lagria vilosa* [Coleoptera: Lagriidae]. Rec'd 14 Mar 1990. Brazil: Formosa, Goiás.
- 2960 CENARGEN (CG 164). *Lagria vilosa* [Coleoptera: Lagriidae]. Rec'd 14 Mar 1990. Brazil: Formosa, Goiás.
- 4097 LA Lacey (94007). *Lagria vilosa* [Coleoptera: Lagriidae]. Rec'd 28 Mar 1994. Brazil.
- 4849 JM Sung (C-321). Adult, [Coleoptera: Meloidae]. 14 Jul 1994. Republic of Korea: Chiag Mt., Kangwondo.

Isaria cateniannulata (ZQ Liang) Samson & Hywel-

Jones

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 6241 [RCEF 0464] [Coleoptera: Curculionidae]. 8 Jul 1998. PR China: Anhui.
- 6243 [RCEF 0516] *Brachyderes incanus* [Coleoptera: Curculionidae]. 27 Jan 1999. PR China: Anhui.

Isaria cateniobliqua (ZQ Liang) Samson & Hywel-

Jones

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 6244 [RCEF 0189] Adult, [Coleoptera]. Rec'd 24 Aug 1999. PR China: Anhui.

Isaria coleopterorum (Samson & HC Evans) Samson & Hywel-Jones

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 9509 [SRCAMB VL-2091] V Likhovidov. [Coleoptera: Lampyridae]. 25 Aug 2006. Russian Federation: Moscow Region. Field Collection Number F-1086.

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.

- 799 DA Rodriguez Sierra ← A López. Pupa, *Premnotrypes vorax* [Coleoptera: Curculionidae]. Nov 1981. Colombia: Tibaitata, Mosquera, Nariño.
- 1507 I Majchrowicz (61) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 1508 I Majchrowicz (76) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 1957 [CNPAF 85-7-22-1; CP 182] JC Lord and BP Magalhães. *Lagria vilosa* [Coleoptera: Lagriidae]. 22 Jul 1985. Brazil: União dos Palmares, Alagoas.
- 2355 [ARSEF 2379 (never frozen)] MC Rombach (201286-7). [Coleoptera]. 20 Dec 1986. Philippines: rainforest, Mt. Makiling, Los Baños, Manila.
- 2937 EcoScience Corporation (32-51) ← LJ Dapsis. *Otiorynchus sulcatus* [Coleoptera: Curculionidae]. Aug 1989. USA: Oregon.
- 4029 T Steenberg (234) ← CW Riedel. *Agonum dorsale* [Coleoptera: Carabidae]. Jan 1991. Denmark: Menstrup, Zealand.
- 4039 T Steenberg (259). *Sitona lineatus* [Coleoptera: Curculionidae]. Oct 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 4040 T Steenberg (260) ← L Øgaard. *Staphylinus olens* [Coleoptera: Staphylinidae]. Oct 1991. Denmark: Bagsværd, Zealand.
- 4043 T Steenberg (269) ← CW Riedel. *Bembidion lampros* [Coleoptera: Carabidae]. Jan 1991. Denmark.
- 4044 T Steenberg (270). *Agonum dorsale* [Coleoptera: Carabidae]. Jan 1991. Denmark.
- 4045 T Steenberg (274) ← V Langer. Larva, *Hapalus* sp. [Coleoptera: Carabidae]. Nov 1991. Denmark: Copenhagen, Tåstrup, Zealand.
- 5073 LA Lacey (95065). [Coleoptera: Cerambycidae]. 6 Oct 1995. France: Lodève, Hérault.
- 5074 LA Lacey (95066). [Coleoptera: Cerambycidae]. 6 Oct 1995. France: Lodève, Hérault.
- 5075 LA Lacey (95067). [Coleoptera: Cerambycidae]. 6 Oct 1995. France: Lodève, Hérault.
- 5080 LA Lacey (95069). [Coleoptera: Cerambycidae]. 16 Nov 1995. France: Saint-Etienne, de Gourgues.
- 5699 JM Sung (KEFC-1170). [Coleoptera: Tenebrionidae]. 9 Jul 1997. Republic of Korea: Yongmoon Mt., Gyeonggi Province.
- 5754 BL Parker (SPT 012). [Coleoptera: Coccinellidae]. 18 Jan 1998. Turkey: Hirshito Ht., Gaziantep, Gaziantep.

- 5834 BL Parker (SPT 013/2). [Coleoptera: Coccinellidae]. 18 Jan 1998. Turkey: Hursit Mt., Gaziantep, Gaziantep.
- 5858 T Steenberg (SSL 610). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Feb 1997. Denmark: Broiler house, Øster Sottrup, Jutland.
- 6488 BL Parker (SPT-KZ-418). Adult, [Coleoptera: Scarabaeidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:.**
- contact Curator
- 6489 BL Parker (SPT-KZ-419). Adult, [Coleoptera: Scarabaeidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:.**
- contact Curator
- 6491 BL Parker (SPT-KZ-423). Adult, [Coleoptera: Chrysomelidae] overwintering in soil. 4 Feb 2000. Kazakhstan: GPS Coordinates N 43°23.081' E 077°34.126'. **RESTRICTED ACCESS:.**
- contact Curator
- 7276 JM Sung (EFCC 9251). [Coleoptera: Cerambycidae]. 23 Aug 2002. Republic of Korea: Seolag Mt., Kangwon-do.
- 8411 AE Hajek (02 NY 5-6-1). Adult, cadaver, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 10 Sep 2002. USA: Quarantine colony, Ithaca, New York.
- 8917 [ERL 253] BL Parker (AVRDC 0482B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 9269 Z Demirbag and E Tanyeli (Dm-3). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Maçka-Zigana, Trabzon.
- 9270 Z Demirbag and E Tanyeli (Dm-4). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Maçka-Zigana, Trabzon.
- 9275 Z Demirbag and E Tanyeli (Dm-9). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 9276 Z Demirbag and E Tanyeli (Dm-10). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 9277 Z Demirbag and E Tanyeli (Dm-11). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 9278 Z Demirbag and E Tanyeli (Dm-12). *Dendroctonus micans* [Coleoptera: Scolytidae]. 20 Jun 2009. Turkey: Maçka-Zigana, Trabzon.
- 9511 [SRCAMB VL-1587/3] V Likhovidov. [Coleoptera: Silphidae]. 14 Sep 2004. Russian Federation: Caucasus region, Karachayevo-Cherkessiya Republ. Field Collection Number F-525.
- 9516 [SRCAMB B-405/2] V Likhovidov ← BA Borisov. [Coleoptera]. Oct 2003. Ukraine: Kherson Oblast. Field Collection Number F-930.
- 9944 LS Bauer (Legg Park 1). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Rec'd 14 Apr 2010. USA: Legg Park, Okemos, Michigan.
- 9945 LS Bauer (Legg Park 2). Larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. Rec'd 14 Apr 2010. USA: Legg Park, Okemos, Michigan.
- 11827 [ERL 2039] S Gouli and V Gouli (THR-11-28). [Coleoptera: Tenebrionidae]. 2011. USA: Richford, Vermont.
- 11830 [ERL 2042] S Gouli (THR-11-31) and V Gouli. [Coleoptera: Curculionidae]. 2011. USA: Richford, Vermont.
- 11831 [ERL 2043] S Gouli and V Gouli (THR-11-32). [Coleoptera: Carabidae]. 2011. USA: Richford, Vermont.
- Isaria fumosorosea* Wize
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Paecilomyces fumosoroseus* (Wize) Brown & Smith. Reclassified during a phylogenetically necessary reclassification of *Paecilomyces* Section *Isarioidea*.
-
- 722 [CNPAF 82-1-15-05; CP 18] RA Daoust. *Lagria vilosa* [Coleoptera: Lagriidae]. Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 1506 I Majchrowicz (71) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 2216 [CNPAF 86-06-05-1; CP 212] DW Roberts ← PMOJ Neves. *Lagria vilosa* [Coleoptera: Lagriidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2217 [CNPAF 86-06-02-2; CP 213] DW Roberts ← OS Ohashi. *Lagria vilosa* [Coleoptera: Lagriidae]. 2 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2219 [CNPAF 86-06-05-3; CP 215] DW Roberts ← DMF Capalbo. *Lagria vilosa* [Coleoptera: Lagriidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2221 [CNPAF 86-06-05-1; CP 217] DW Roberts ← OS Ohashi. *Lagria vilosa* [Coleoptera: Lagriidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2679 AS Martins. 3rd instar larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 13 Oct 1988. Portugal: Terceira Island, Azores.
- 2956 CENARGEN (CG 123). *Spaethiella* sp. [Coleoptera: Chrysomelidae]. Rec'd 14 Mar 1990. Brazil: Manaus, Amazonas.
- 5627 I Vänninen (SF86-82). Larva, *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. Aug 1986. Finland: Kymenlaakso.
- 5694 JM Sung (KEFC-919). [Coleoptera]. 28 Jun 1996. Republic of Korea: Book-Bang, Hong-Cheon Kun, Kangwon-do.
- 5844 T Steenberg (SSL 58). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from soil.

- 5845 T Steenberg (SSL 59). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from soil.
- 5846 T Steenberg (SSL 61). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from soil.
- 5847 T Steenberg (SSL 62). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from soil.
- 6730 FE Vega (EBCL 97054). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 23 Feb 2001. Ivory Coast.
- 7284 FE Vega (MPM-5). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Rec'd 8 Jan 2004. Mexico: Tapachula, Chiapas.
- 7716 [SRCAMB B-173] V Likhovidov ← BA Borisov. [Coleoptera]. Aug 2002. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-189.
- 8142 LS Bauer and H Liu (MF-233). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Brighton, Michigan.
- 8840 [CSIRO FI-1275] [Coleoptera: Chrysomelidae]. 5 Aug 1998. Australia: Tasmania.
- 8892 [CSIRO FI-1296] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from insect A11. 22 Dec 1998. Australia: Condong, New South Wales.
- 9521 [SRCAMB VL-2057] V Likhovidov. *Coccinella septempunctata* [Coleoptera: Coccinellidae]. Aug 2000. Ukraine: Kherson Oblast. Field Collection Number F-749.
- 9602 X Zou (9). [Coleoptera]. Rec'd 19 Jan 2010. PR China: Guizhou Province.

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*.

- 322 GR Buckingham. *Litodactylus leucogaster* [Coleoptera: Curculionidae]. Dec 1978. USA: Gainesville, Florida.
- 7119 HE Cabanillas. Adult, [Coleoptera] on wild olive tree. 29 Oct 2002. USA: Weslaco, Texas.

***Lecanicillium* sp.**

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 7635 [SRCAMB B-255] V Likhovidov ← BA Borisov. Larva, [Coleoptera: Elateridae] Isolated from stroma of *Cordyceps corallomyces*. 12 Aug 2003. Russian Federation: Kedrovaya Pad Nature Reserve, Primorsky Krai. Field Collection Number F-323.

- 7636 [SRCAMB B-260] V Likhovidov ← BA Borisov. Larva, [Coleoptera: Elateridae] Isolated from stroma of *Cordyceps stylophora*. 11 Jul 2003. Russian Federation: Kedrovaya Pad Nature Reserve, Primorsky Krai. Field Collection Number F-340.
- 9459 [SRCAMB VL-1587/2] V Likhovidov. [Coleoptera: Silphidae]. 14 Sep 2004. Russian Federation: Caucasus region, Karachayevo-Cherkessiya Republ. Field Collection Number F-524.

***Lecanicillium evansii*(?) Zare & W. Gams**

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 11805 [ERL 2063] S Gouli and V Gouli (THR-11-52). Larva, [Coleoptera]. 2011. USA: Debury, Vermont.

Lecanicillium fungicola (Preuss) Zare & W Gams

[Sordariomycetes: Hypocreales]

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

- 9483 [SRCAMB VL-2063] V Likhovidov. Larva, [Coleoptera: Elateridae] Isolated from *Cordyceps* sp. Aug 2005. Belarus: Belavezhskaya Puscha National Park. Field Collection Number F-928.

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]

- 1505 I Majchrowicz (70) ← F Herard. Imago, *Pyrrhalta luteola* [Coleoptera: Chrysomelidae]. May 1983. France: Entraigues, Vaucluse.
- 7181 H Liu (MSUFS-701). Adult, *Plectrodera scalator* [Coleoptera: Cerambycidae] from laboratory colony. 18 Dec 2001. USA: East Lansing, Michigan.
- 7182 H Liu (MSUFS-702). Adult, *Plectrodera scalator* [Coleoptera: Cerambycidae] from laboratory colony. 18 Dec 2001. USA: East Lansing, Michigan.
- 8115 LS Bauer and H Liu (MF-204). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.

Lecanicillium longisporum (Petch) Zare & W Gams

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas

- 4050 T Steenberg (299). *Tachyporus hypnorum* [Coleoptera: Staphylinidae]. Mar 1992. Denmark: Copenhagen, Tåstrup, Zealand.

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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- 1328 TJ Poprawski (084). Egg, *Hypera postica* [Coleoptera: Curculionidae]. 17 May 1983. France: Chichery.
- 1335 S Balazy (1539). Larva, *Malachius bipustulatus* [Coleoptera: Melyridae] under the stem bark of *Quercus robur* in leafy forest. 24 Apr 1983. Poland: Wielkopolski National Park.
- 1401 TJ Poprawski (089). Egg, *Hypera postica* [Coleoptera: Curculionidae]. Jun 1983. France.
- 1402 TJ Poprawski (090). Egg, *Hypera postica* [Coleoptera: Curculionidae]. Jun 1983. France.
- 1403 TJ Poprawski (091). Egg, *Hypera postica* [Coleoptera: Curculionidae]. Jun 1983. France.
- 4033 T Steenberg (239). *Sitona lineatus* [Coleoptera: Curculionidae]. Mar 1991. Denmark: Næstved, Zealand.
- 4036 T Steenberg (244). Pupa, *Dendroctonus micans* [Coleoptera: Scolytidae]. Rec'd Nov 1993. Denmark.
- 7248 JM Sung (EFCC 2011). [Coleoptera: Curculionidae]. 20 May 1998. Republic of Korea: Guryungryung, Kangwon-do.
- 8048 HH Kope (PFC 5). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Eve River, Vancouver Island, British Columbia. 50°17' N, 126°18' W.
- 8049 HH Kope (PFC 6). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Eve River, Vancouver Island, British Columbia. 50°17' N, 126°18' W.
- 8050 HH Kope (PFC 9). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Pacific Forestry Centre Arboretum, Vancouver Island, British Columbia. 48°28' N, 124°24' W.
- 8051 HH Kope (PFC 10). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Nimpkish, Vancouver Island, British Columbia. 50°19' N, 126°54' W.
- 8052 HH Kope (PFC 11). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Nimpkish, Vancouver Island, British Columbia. 50°19' N, 126°54' W.
- 8053 HH Kope (PFC 12). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Cowichan Lake, Vancouver Island, British Columbia. 48°50' N, 124°06' W.
- 8054 HH Kope (PFC 15). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Pacific Forestry Centre Arboretum, Vancouver Island, British Columbia. 48°28' N, 124°24' W.
- 8114 LS Bauer and H Liu (MF-203). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.
- 8118 LS Bauer and H Liu (MF-208). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 14 Dec 2005. USA: Brighton, Michigan.
- 8157 LS Bauer and H Liu (MF-248). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Brighton, Michigan.
- 8163 LS Bauer and H Liu (MF-254). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Ann Arbor, Michigan.
- 8165 LS Bauer and H Liu (MF-257). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 10 Aug 2006. USA: Ann Arbor, Michigan.
- 8923 [ERL 281] BL Parker (AVRDC 0588B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 9267 Z Demirbag and E Tanyeli (Dm-1). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Mağza-Zigana, Trabzon.
- 9268 Z Demirbag and E Tanyeli (Dm-2). *Dendroctonus micans* [Coleoptera: Scolytidae]. 24 Oct 2008. Turkey: Mağza-Zigana, Trabzon.
- 11803 [ERL 2061] S Gouli and V Gouli (THR-11-50). *Ips* sp. [Coleoptera: Scolytidae]. 2011. USA: Orford, New Hampshire.
-
- Lecanicillium muscarium(?)*** (Petch) Zare & Gams
[Sordariomycetes: Hypocreales]
- Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas.
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- 8162 LS Bauer and H Liu (MF-253). 4th instar larva, *Agrilus planipennis* [Coleoptera: Buprestidae]. 28 Jul 2006. USA: Ann Arbor, Michigan.
- 8265 RJ Pereault (Walton Spray pci#2). *Conotrachelus nenuphar* [Coleoptera: Curculionidae]. Aug 2006. USA: orchard B, Frankfort, Michigan.
-
- Lecanicillium nr. araneorum*** (Petch) Zare & Gams
[Sordariomycetes: Hypocreales]
- Cordycipitaceae. Reclassified from *Verticillium* Section Prostrata for phylogenetically required reasons.
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- 9460 [SRCAMB VL-2092] V Likhovidov. [Coleoptera: Lampyridae]. 25 Aug 2006. Russian Federation: Moscow Region. Field Collection Number F-1104.
- 11799 [ERL 2057] S Gouli and V Gouli (THR-11-46). *Ips* sp. [Coleoptera: Scolytidae]. 2011. USA: Debry, Vermont.
- 11811 [ERL 2071] S Gouli and V Gouli (THR-11-60). [Coleoptera: Elateridae]. 2011. USA: Sharon Springs, New York.
-
- Lecanicillium pissodis*** Kope & I. Leal
[Sordariomycetes: Hypocreales]
- Cordycipitaceae
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- 8055 [DAVFP 29230] HH Kope (PFC 17). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003.

- Canada: Pacific Forestry Centre Arboretum, Vancouver Island, British Columbia. 48°28' N, 124°24' W.
- 8056 [DAVFP 29231] HH Kope (PFC 18). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Pacific Forestry Centre Arboretum, Vancouver Island, British Columbia. 48°28' N, 124°24' W.
- 8057 [CBS 118231; DAVFP 29232] HH Kope (PFC 19). Adult, cadaver, *Pissodes strobi* [Coleoptera: Curculionidae]. 2003. Canada: Pacific Forestry Centre Arboretum, Vancouver Island, British Columbia. 48°28' N, 124°24' W. CULTURE EX TYPE.

Lecanicillium sp. 2(?) sensu W. Gams & Zare

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 2832 SR Sánchez Peña (2). [Coleoptera]. Jul 1987. Mexico: elev. 2900 m, Pseudotsuga-Abies forest, Pueblo Nuevo, Durango.

Metarhizium sp.

[Sordariomycetes: Hypocreales]

Clavicipitaceae

- 7493 [CSIRO FI-1358] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 23 Jul 1999. Laboratory infection.
- 7495 [CSIRO FI-1395] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 27 Dec 1999. Australia: Condong, New South Wales.
- 7643 [SRCAMB VL-271] V Likhovidov. *Agelastica alni* [Coleoptera: Chrysomelidae]. Sep 2001. Russian Federation: Caucasus region, Krasnaya Polyana, Krasnodarsky Krai. Field Collection Number F-231.
- 8851 [CSIRO FI-1342] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect A4. Jun 1999. Australia: Condong, New South Wales.
- 8852 [CSIRO FI-1345] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 71. Jun 1999. Australia: Condong, New South Wales.
- 8855 [CSIRO FI-1352] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 420. 23 Jul 1999. Australia: Condong, New South Wales.
- 8856 [CSIRO FI-1353] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 334. 23 Jul 1999. Australia: Condong, New South Wales.
- 8857 [CSIRO FI-1354] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] from Condong insect 349. 23 Jul 1999. Australia: Condong, New South Wales.
- 11668 Z Demirbag (As1) ← S Kocayevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.
- 11669 Z Demirbag (As2) ← S Kocayevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. Jan 2011. Turkey: Trabzon City, Trabzon.

- 11685 Z Demirbag (As18) ← S Kocayevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.
- 11686 Z Demirbag (As19) ← S Kocayevik. *Amphimallon solstitiale* [Coleoptera: Scarabaeidae]. 25 Jan 2011. Turkey: Trabzon City, Trabzon.
- 11849 [ERL 2030] S Gouli (THR-11-20) and V Gouli. [Coleoptera: Chrysomelidae]. 2011. USA: Underhill, Vermont.

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).

- 725 [CNPAF 82-1-6-02; CP 8] RA Daoust. *Chalcodermus aeneus* [Coleoptera: Curculionidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 760 [CNPAF 82-2-15-03; CP 31] RA Daoust. *Ceratomyza arcuata* [Coleoptera: Chrysomelidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 808 [CNPAF 82-7-23-01; CP 62] RA Daoust ← SM dos Santos. *Coleomegilla maculata* [Coleoptera: Coccinellidae]. 23 Jul 1982. Brazil: CNPAF, Goiânia, Goiás.
- 818 GG Soares (19). 6th instar larva, *Otiorynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistère.
- 929 [CNPAF 82-12-15-01; CP 67] RA Daoust ← SM dos Santos. Larva, *Chalcodermus aeneus* [Coleoptera: Curculionidae]. Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 932 [CNPAF 82-12-20-02; CP 70] RA Daoust. [Coleoptera: Bruchidae]. 20 Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 939 [CNPAF 83-3-3-03; CP 78] RA Daoust ← SM dos Santos. [Coleoptera: Carabidae]. 3 Mar 1983. Brazil: CNPAF, Goiânia, Goiás.
- 954 [CNPAF 83-03-16L; CP 99] RA Daoust and BP Magalhães. [Coleoptera: Bruchidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 1056 [CNPS 25] F Moscardi. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 1983. Brazil: Londrina, Paraná.
- 1280 DW Roberts (MaT3JB-C) or (single spore isolate #1). *Popillia japonica* [Coleoptera: Scarabaeidae]. 1978. USA: Clinton Corners, New York.
- 1377 [ARSEF ?396] S Keller (48). *Agriotes sputator* [Coleoptera: Elateridae]. 4 May 1977. Switzerland.
- 1885 [CP 174] DW Roberts ← SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. 23 Apr 1985. Brazil: CNPAF, Goiânia, Goiás.
- 1901 DW Roberts ← MA Naves (CG-6). [Coleoptera: Carabidae]. Jan 1980. Brazil: Pará.

- 1903 DW Roberts (103a). *Conoderus* sp. [Coleoptera: Elateridae]. Acc'd 11 Jun 1985. USA.
- 1958 [CNPAF 85-7-24-1; CP 184] JC Lord and BP Magalhães. *Diabrotica speciosa* [Coleoptera: Chrysomelidae]. 24 Jul 1985. Brazil: Ribeira do Pombal, Bahia.
- 1989 [ARSEF 1452 (deaccessioned); CNPAF 53; CP 126] F Moscardi. *Sternechus subsignatus* [Coleoptera: Curculionidae]. 27 Mar 1984. Brazil: Soybean Center, Londrina, Paraná.
- 2076 [CP 194] JC Lord and BP Magalhães. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 1985. Brazil: CNPAF, Goiânia, Goiás.
- 2077 [CP 195] JC Lord and BP Magalhães. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 1985. Brazil: CNPAF, Goiânia, Goiás.
- 2135 T Searle (F). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.
- 2136 T Searle (K). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada.
- 2137 T Searle (Q). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.
- 2138 T Searle (W). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.
- 2139 T Searle (Z). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Aug 1985. Canada: Southern Québec.
- 2156 BN Muthappa (PNG 12711). Adult, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2163 BN Muthappa (PNG 12722). Larva, [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2165 BN Muthappa (PNG 12724). Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2166 BN Muthappa (PNG 12726). Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2167 BN Muthappa (PNG 12727). Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2513 [CP 236A] SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Oct 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2548 SV Krueger ← FL Consolie and MG Villani. *Popillia japonica* [Coleoptera: Scarabaeidae]. Oct 1987. USA: Sleepy Hollow, New York.
- 2635 [CNPAF 88-5-6B; CP 253] DW Roberts ← E Dias Quintela. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 6 May 1988. Brazil: CNPAF, Goiânia, Goiás.
- 2941 [CP 272] SP Wraight ← DR Sosa-Gómez. *Cerotoma arcuata* [Coleoptera: Chrysomelidae]. 8 Nov 1988. Brazil: CNPAF, Goiânia, Goiás.
- 3056 [MAF F11] T Glare. *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: Canterbury Plains, South Island.
- 3057 [MAF F12] T Glare. *Costelytra zealandica* [Coleoptera: Scarabaeidae]. Rec'd Oct 1990. New Zealand: South Island.
- 3148 INRA (Ma-181) ← A Caudal. *Haphochelus marginalis* [Coleoptera]. May 1983. France: Réunion.
- 3305 J Gutierrez Samperio (21) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Colima.
- 3306 J Gutierrez Samperio (22) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Colima.
- 3308 J Gutierrez Samperio (24) ← ERD Reyes. *Geraeus senilis* [Coleoptera: Curculionidae] on corn. 1990. Mexico: Colima.
- 3329 DW Roberts ← AS Martins (A-1). 3rd instar larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. Spring 1988. Portugal: Terceira Island, Azores.
- 3330 SV Krueger (MaJB1). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3331 SV Krueger (MaJB2). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3332 SV Krueger (MaJB3). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3333 SV Krueger (MaJB6). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3334 SV Krueger (MaJB7). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3335 SV Krueger (MaJB8). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3336 SV Krueger (MaJB9). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3337 SV Krueger (MaJB10). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3338 SV Krueger (MaJB11). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3339 SV Krueger (MaJB12). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3340 SV Krueger (MaJB13). *Popillia japonica* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3389 I Majchrowicz (T-11-4). *Tribolium castaneum* [Coleoptera: Tenebrionidae] on apple. 16 Jul 1991. USA: Seto Farm, Granger, Washington.
- 3479 CENARGEN (CG 339). [Coleoptera: Scarabaeidae]. 1991. Brazil: Brasília, Distrito Federal.
- 3713 RA LeBrun ← J Hanula (C-5). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 3 Jun 1991. USA: Clinton, Connecticut.
- 3720 RA LeBrun ← J Hanula. Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 20 May 1991. USA: Windsor, Connecticut.

- 4125 [DAT 2] AC Rath (F124). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 2 May 1986. Australia.
- 4132 [DAT 11] AC Rath (F011). Larva, *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1983. Australia: Eyre Pennisular, South Australia.
- 4133 [DAT 12] AC Rath (F012). Larva, *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1983. Australia: Aldgate, South Australia.
- 4134 [DAT 14] AC Rath (F014). Larva, *Sericethis* sp. [Coleoptera: Scarabaeidae]. 8 May 1986. Australia: Laboratory, Newtown, Tasmania.
- 4137 [DAT 19] AC Rath (F019). Larva, *Adoryphorus coulunii* [Coleoptera: Scarabaeidae]. 1986. Australia: Laboratory, Newtown, Tasmania.
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- 4341 [DAT 487] AC Rath (F487) ← W Theunis (SOL IS 12). Adult, [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4346 [DAT 33] AC Rath (F033). *Adoryphorus coulunii* [Coleoptera: Scarabaeidae]. Rec'd 6 Jun 1994. Australia: Woodbury, Tasmania.
- 4557 [DAT 481] AC Rath (F481). Pupa, [Coleoptera]. 22 Jun 1993. Solomon Islands.
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- 4568 [DAT 510] AC Rath (F510). Larva, *Sericethis micans* [Coleoptera: Scarabaeidae]. 11 Feb 1994. Australia: New South Wales.
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- 4574 [DAT 516] AC Rath (F516). 3rd instar larva, *Anoplognathus hirsutus* [Coleoptera: Scarabaeidae]. 10 Mar 1994. Australia: Glen Innes, New England, New South Wales.
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- 5848 T Steenberg (SSL 75). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from larvae of an unidentified beetle [Coleoptera].
- 5850 T Steenberg (SSL 84). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from an unidentified beetle [Coleoptera].
- 6388 TL Dubois (FS 3 # 1 (3)) ← SM Smith ← V D'Amico. Larva, late instar, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] on twig. 19 Mar 1999. USA: Laboratory colony, USDA Forest Service, Hamden, Connecticut. Laboratory colony started from host originally obtained from infested maple wood collected in Chicago, Illinois, USA 5 March 1999.
- 6389 TL Dubois (SS 1 # 2 (1)) ← SM Smith. Larva, early instar, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] from wood of *Acer* sp. 23 Mar 1999. USA: USDA APHIS ANG Base, Otis, Massachusetts. Laboratory colony started from host originally obtained from infested maple wood collected in Chicago, Illinois, USA 5 March 1999.
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- 6551 D Chandler (HRI 335.92). Larva, *Agriotes* sp. [Coleoptera: Elateridae]. Rec'd 13 Jul 2000. United Kingdom.
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- 6683 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Awaketu, Northern Shoa.
- 6684 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Awaketu, Northern Shoa.
- 6685 *Pachnoda interrupta* [Coleoptera: Scarabaeidae]. Rec'd 17 Jan 2001. Ethiopia: Kewot, Northern Shoa.
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- 7002 LA Lacey (YARL 020128-3). Adult, *Limonius canus* [Coleoptera: Elateridae] reared in laboratory. Fall 2001. USA: Yakima Agricultural Research Laboratory, Wapato, Washington.
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- 7452 [CSIRO FI-1041] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland.
- 7492 [CSIRO FI-1350] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 2 Jun 1999. Laboratory experiment.
- 7494 [CSIRO FI-1363] CBS (316.51). *Agriotes* sp. [Coleoptera: Elateridae]. 23 Aug 1999. USA: Forest Grove, Oregon.
- 7496 [CSIRO FI-1402] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 13 Apr 2000. Australia: Bundaberg, Queensland.
- 7498 [CSIRO FI-1410] *Agrianome spinicollis* [Coleoptera: Cerambycidae]. 26 Apr 2000. Australia: Moree, New South Wales.
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- 7831 [CSIRO FI-0160] *Lepidiota frenchi* [Coleoptera: Scarabaeidae]. 28 Jul 1986. Australia: Gordonvale, Queensland.
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- 7932 [CSIRO FI-0378] Adult, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 28 Mar 1989. Australia: Busselton, Western Australia.
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- 8099 [CSIRO FI-0659] [Coleoptera: Curculionidae]. 29 May 1990. CSIRO, Nematodes Laboratory.
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- 8744 [CSIRO FI-1040] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland.
- 8745 [CSIRO FI-1081] *Brontispa longissima* [Coleoptera: Chrysomelidae]. 20 May 1994. Australia: Darwin, Northern Territory.
- 8746 [CSIRO FI-1082] *Brontispa longissima* [Coleoptera: Chrysomelidae]. 20 May 1994. Australia: Darwin, Northern Territory.
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- 8748 [CSIRO FI-1107] *Papuana* sp. [Coleoptera: Scarabaeidae]. 14 Dec 1994. Papua New Guinea.
- 8754 [CSIRO FI-1151] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 17 Aug 1995. Australia: Burdekin, Queensland.
- 8755 [CSIRO FI-1152] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 17 Aug 1995. Australia: Burdekin, Queensland.
- 8761 [CSIRO FI-1160] Larva, *Antitrogus consanguineus* [Coleoptera: Scarabaeidae]. May 1996. Australia: Bundaberg, Queensland.

- 8762 [CSIRO FI-1161] Adult, *Rhabdoscelus obscurus* [Coleoptera: Curculionidae]. May 1996. Australia: Northern Queensland, Queensland.
- 8764 [CSIRO FI-1163] Larva, *Anoplognathus* sp. [Coleoptera: Scarabaeidae]. May 1996. Australia: Cooma, New South Wales.
- 8765 [CSIRO FI-1240] 3rd instar larva, *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 1 Sep 1997. Australia: Condong, New South Wales.
- 8766 [CSIRO FI-1241] 3rd instar larva, *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 1 Sep 1997. Australia: Condong, New South Wales.
- 8767 [CSIRO FI-1247] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 12 Sep 1997. Australia: Condong, New South Wales.
- 8775 [ERL 194] BL Parker (AVRDC 0005B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8776 [ERL 195] BL Parker (AVRDC 0009B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8777 [ERL 203] BL Parker (0207B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8778 [ERL 204] BL Parker (AVRDC 0214B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8779 [ERL 205] BL Parker (AVRDC 0216B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8780 [ERL 206] BL Parker (AVRDC 0224B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8781 [ERL 209] BL Parker (AVRDC 0244B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8782 [ERL 211] BL Parker (AVRDC 0260B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8783 [ERL 215] BL Parker (AVRDC 0293B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8784 [ERL 216] BL Parker (AVRDC 0295B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8785 [ERL 218] BL Parker (AVRDC 0312B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8786 [ERL 220] BL Parker (AVRDC 0331B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8787 [ERL 221] BL Parker (AVRDC 0338B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8788 [ERL 222] BL Parker (AVRDC 0344B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8789 [ERL 223] BL Parker (AVRDC 0346B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8790 [ERL 224] BL Parker (AVRDC 0350B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8791 [ERL 225] BL Parker (AVRDC 0355B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8792 [ERL 227] BL Parker (AVRDC 0373B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8793 [ERL 228] BL Parker (AVRDC 0374B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8794 [ERL 229] BL Parker (AVRDC 0377B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8795 [ERL 329] BL Parker (AVRDC 0193B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 2008. Republic of China: Taiwan.
- 8796 [ERL 330] BL Parker (AVRDC 0205B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8797 [ERL 331] BL Parker (AVRDC 0246B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8798 [ERL 333] BL Parker (AVRDC 0153B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8799 [ERL 334] BL Parker (AVRDC 0168B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8828 [CSIRO FI-1228] *Rhabdoscelus obscurus* [Coleoptera: Curculionidae]. 4 Jun 1997. Australia: Innisfail, Queensland.
- 8829 [CSIRO FI-1242] 3rd instar larva, *Rhopaea magnicornis* [Coleoptera: Scarabaeidae] field infection. 1 Sep 1997. Australia: Condong, New South Wales.
- 8830 [CSIRO FI-1245] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 2 Sep 1997. Laboratory infection.
- 8831 [CSIRO FI-1246] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 2 Sep 1997. Laboratory infection.
- 8832 [CSIRO FI-1249] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 22 Oct 1997. Laboratory experiment. Dose 5 after 1 week.
- 8833 [CSIRO FI-1256] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 2 Sep 1997. Australia: Bundaberg, Queensland.
- 8834 [CSIRO FI-1257] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 2 Sep 1997. Australia: Bundaberg, Queensland.

- 8837 [CSIRO FI-1263] *Cyclocephala* sp. [Coleoptera: Scarabaeidae]. 2 May 1998. Australia: Canberra, Australian Capital Territory.
- 8838 [CSIRO FI-1264] *Cyclocephala* sp. [Coleoptera: Scarabaeidae]. 2 May 1998. Australia: Canberra, Australian Capital Territory.
- 8839 [CSIRO FI-1267] *Dasygnathus dejeani* [Coleoptera: Scarabaeidae]. 12 May 1998. Australia: Burdekin, Queensland.
- 8844 [CSIRO FI-1313] *Rhopaea magnicornis* [Coleoptera: Scarabaeidae]. 1 Apr 1999. Australia: Condong, New South Wales.
- 8845 [CSIRO FI-1314] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 4 May 1999. Australia: Mackay, Queensland.
- 8847 [CSIRO FI-1316] *Rhabdoscelus obscurus* [Coleoptera: Curculionidae]. 4 May 1999. Australia: Mackay, Queensland.
- 8848 [CSIRO FI-1320] *Heteronychus arator* [Coleoptera: Scarabaeidae]. 4 May 1999. Australia: Western Australia.
- 8849 [CSIRO FI-1321] *Heteronychus arator* [Coleoptera: Scarabaeidae]. 4 May 1999. Australia: Western Australia.
- 8850 [CSIRO FI-1323] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 6 May 1999. Australia: Mackay, Queensland.
- 8858 [ERL 230] BL Parker (AVRDC 0381B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8859 [ERL 231] BL Parker (AVRDC 0383B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8860 [ERL 234] BL Parker (AVRDC 0390B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8861 [ERL 235] BL Parker (AVRDC 0393B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8862 [ERL 236] BL Parker (AVRDC 0399B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8863 [ERL 237] BL Parker (AVRDC 0402B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8864 [ERL 238] BL Parker (AVRDC 0408B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8865 [ERL 239] BL Parker (AVRDC 0410B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8866 [ERL 240] BL Parker (AVRDC 0411B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8867 [ERL 241] BL Parker (AVRDC 0414B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8868 [ERL 337] BL Parker (AVRDC 0382B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8869 [ERL 338] BL Parker (AVRDC 0384B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8870 [ERL 340] BL Parker (AVRDC 0388B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8871 [ERL 342] BL Parker (AVRDC 0392B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8872 [ERL 343] BL Parker (AVRDC 0394B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8873 [ERL 345] BL Parker (AVRDC 0397B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8874 [ERL 347] BL Parker (AVRDC 0404B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8875 [ERL 348] BL Parker (AVRDC 0419B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8876 [ERL 349] BL Parker (AVRDC 0420B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8877 [ERL 350] BL Parker (AVRDC 0423B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8878 [ERL 352] BL Parker (AVRDC 0432B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8879 [ERL 353] BL Parker (AVRDC 0437B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8880 [ERL 354] BL Parker (AVRDC 0439B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8881 [ERL 355] BL Parker (AVRDC 0440B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8882 [ERL 356] BL Parker (AVRDC 0441B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8883 [ERL 357] BL Parker (AVRDC 0442B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8884 [ERL 358] BL Parker (AVRDC 0449B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

- 8885 [ERL 359] BL Parker (AVRDC 0450B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8886 [ERL 360] BL Parker (AVRDC 0451B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8887 [ERL 361] BL Parker (AVRDC 0458B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8893 [CSIRO FI-1244] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 2 Sep 1997. Laboratory infection.
- 8894 [ERL 246] BL Parker (AVRDC 0467B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8895 [ERL 247] BL Parker (AVRDC 0468B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8896 [ERL 248] BL Parker (AVRDC 0469B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8897 [ERL 249] BL Parker (AVRDC 0470B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8898 [ERL 251] BL Parker (AVRDC 0477B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8899 [ERL 254] BL Parker (AVRDC 0483B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8900 [ERL 256] BL Parker (AVRDC 0485B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8901 [ERL 258] BL Parker (AVRDC 0492B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8902 [ERL 259] BL Parker (AVRDC 0500B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8903 [ERL 265] BL Parker (AVRDC 0523B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8904 [ERL 270] BL Parker (AVRDC 0549B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8905 [ERL 273] BL Parker (AVRDC 0555B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8906 [ERL 277] BL Parker (AVRDC 0567B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8907 [ERL 283] BL Parker (AVRDC 0592B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8908 [ERL 284] BL Parker (AVRDC 0599B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8909 [ERL 286] BL Parker (AVRDC 0611B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8910 [ERL 287] BL Parker (AVRDC 0612B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8911 [ERL 288] BL Parker (AVRDC 0614B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8912 [ERL 362] BL Parker (AVRDC 0459B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8913 [ERL 363] BL Parker (AVRDC 0462B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8914 [ERL 364] BL Parker (AVRDC 0465B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8915 [ERL 365] BL Parker (AVRDC 0493B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8916 [ERL 366] BL Parker (AVRDC 0520B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8941 [ERL 200] BL Parker (AVRDC 0154B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8942 [ERL 201] BL Parker (AVRDC 0166B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8943 [ERL 207] BL Parker (AVRDC 0238B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8944 [ERL 210] BL Parker (AVRDC 0245B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8945 [ERL 212] BL Parker (AVRDC 0262B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8946 [ERL 217] BL Parker (AVRDC 0303B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8947 [ERL 232] BL Parker (AVRDC 0385B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8948 [ERL 233] BL Parker (AVRDC 0389B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8949 [ERL 260] BL Parker (AVRDC 0506B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8950 [ERL 285] BL Parker (AVRDC 0602B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

- 8951 [ERL 329] BL Parker (AVRDC 0193B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8952 [ERL 335] BL Parker (AVRDC 0184B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8953 [ERL 336] BL Parker (AVRDC 0186B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8954 [ERL 341] BL Parker (AVRDC 0376B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 8955 [ERL 346] BL Parker (AVRDC 0398B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 9217 B Kumashiro. *Blosyrus asellus* [Coleoptera: Curculionidae]. Rec'd 8 Jul 2009. USA: Pearl City, Hawaii.
- 9218 B Kumashiro. *Blosyrus asellus* [Coleoptera: Curculionidae]. Rec'd 8 Jul 2009. USA: sweet potato farm, Waipio, Hawaii.
- 9235 [ERL 276] BL Parker (AVRDC 0561B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 9236 [ERL 328] BL Parker (AVRDC 0076B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.
- 9372 A Morales (#1B). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 5 Nov 2004. USA: Battle Island State Park Golf Course, Fulton, New York.
- 9373 A Morales (#3). Larva, *Amphimallon majale* [Coleoptera: Scarabaeidae]. 2 Nov 2004. USA: Wayne Hills Country Club, Lyons, New York.
- 9374 A Morales (#6). Adult, *Listronotus maculicollis* [Coleoptera: Curculionidae]. 29 Jun 2005. USA: Robert Trent Jones Golf Course at Cornell University, Ithaca, New York.
- 10469 [CSIRO FI-1045] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland. Patented, commercialized strain (Bio-Cane). **RESTRICTED ACCESS: consult Curator.**
- 11850 [ERL 2031] S Gouli and V Gouli (THR-11-21). [Coleoptera: Elateridae]. 2011. USA: Sharon Springs, New York.
- 11945 R Casique and SR Sánchez Peña (2M10). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. Rec'd 20 Feb 2013. Mexico: General Terán, Nuevo León.
- 11946 R Casique and SR Sánchez Peña (FM4). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. Rec'd 20 Feb 2013. Mexico: Tecolutla, Veracruz.
- 11947 R Casique and SR Sánchez Peña (FM6). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. Rec'd 20 Feb 2013. Mexico: Tecolutla, Veracruz.
- 11951 KS Halat and DI Shapiro Ilan. *Cotinis nitida* [Coleoptera: Scarabaeidae]. 24 Oct 2012. USA: pecan orchard, Fort Valley, Georgia.
- 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.
- 2223 KJ Marschall. *Brontispa longissima* [Coleoptera: Chrysomelidae] from artificial production. Jun 1986. Western Samoa: Vaoala, Apia.
- 2518 [CP 224] *Conoderus* sp. [Coleoptera: Elateridae]. Acc'd 8 Dec 1987. New Zealand.
- 3924 DR Sosa-Gómez (CNPSO-Ma58) ← LJ Oliveira. *Phyllophaga cuyabana* [Coleoptera: Scarabaeidae]. 22 Nov 1990. Brazil: Boa Esperança, Paraná.
- 6546 D Chandler (HRI 36.79). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 13 Jul 2000. United Kingdom.
- 7450 [CSIRO FI-0976] Larva, *Heteronyx piceus* [Coleoptera: Scarabaeidae]. 11 Jun 1992. Australia: Queensland.
- 10472 C Thamarai Chelvi (1). *Holotrichia serrata* [Coleoptera: Scarabaeidae]. 25 Aug 2009. India: Bannari Amman Sugar Mill area, Sathyamangalam, Tamil Nadu.
- 10475 C Thamarai Chelvi (4). *Holotrichia consanguinea* [Coleoptera: Scarabaeidae]. 6 Apr 2010. India: Timiri village, Vellore Sugar Mill area, Vellore, Tamil Nadu.
- 10476 C Thamarai Chelvi (5). *Holotrichia serrata* [Coleoptera: Scarabaeidae]. 2 Mar 2010. India: Salem Sugar Mill area, Rasipuram, Tamil Nadu.
- Metarhizium anisopliae* var. *lepidiotae*** Driver, Milner & Trueman
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Species remaining here need genomic confirmation before reclassification under the emergent classification of Bischoff et al. (2009), presumably to *M. lepidiotae*.
- 7453 [ARSEF 7488; CSIRO FI-1042] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland.
- 8732 [CSIRO FI-0147] *Lepidiota consobrina* [Coleoptera: Scarabaeidae]. 29 May 1986. Australia: Mossman, Queensland. CULTURE EX TYPE.
- Metarhizium anisopliae* var. *majus*** (Johnston) Tulloch
[Sordariomycetes: Hypocreales]
Clavicipitaceae. Species remaining here need genomic confirmation before reclassification, presumably as *M. majus*, under the classification of Bischoff et al. (2009).
- 297 KJ Marschall. Larva, *Xyloryctes jamaicensis* [Coleoptera: Scarabaeidae]. 22 Nov 1978. Western Samoa:

- Apia.
- 298 RS Soper. Larva, *Xyloryctes jamaicensis* [Coleoptera: Scarabaeidae]. Acc'd 22 Feb 1979. Western Samoa: Apia.
- 2151 MC Rombach (170386-1). Larva, *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. 17 Mar 1986. Indonesia: Ciamis, Jawa Barat, Java.
- 3145 INRA (Ma-51) ← A Glandard. *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. Jan 1971. France: La Minière.

***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).

- 346 [CSIRO FI24] *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. Acc'd 4 Apr 1980. Australia: Adelaide, South Australia.
- 472 [CSIRO FI55; DAR 29768] J Walker ← A Wescott. [Coleoptera: Scarabaeidae]. Sep 1977. Australia: BCRI, R.D. 66, Rydalmere, New South Wales.
- 817 GG Soares (17). 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 5 Mar 1982. France: Plougastel-Daoulas, Finistère.
- 820 GG Soares (A7) ← M Marchal. 6th instar larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jan 1982. France: Angers, Maine-et-Loire.
- 1066 [ARSEF ?397] TJ Poprawski ← S Keller (92). Adult, *Melolontha melolontha* [Coleoptera: Scarabaeidae]. 29 May 1981. Switzerland: Iselisberg.
- 2107 [CBS 316.51; IMI 014746; NRRL 1944; QM 191] MC Rombach ← KB Raper and LP Rockwood. Larva, *Agriotes* sp. [Coleoptera: Elateridae]. 29 Jun 1933. USA: Forest Grove, Oregon. Ex-type isolate.
- 2210 [ARSEF 2225] MC Rombach (140486-1) ← H Beddu Rewa. [Coleoptera: Curculionidae] on palm tree. 22 Mar 1986. Indonesia: Baritiwuring (Butterfly Valley), nr. Ujungpandang, Sulawesi Selatan, Celebes.
- 2224 MC Rombach (140486). [Coleoptera: Curculionidae]. 14 Apr 1986. Indonesia.
- 3864 LA Lacey (92141). *Popillia japonica* [Coleoptera: Scarabaeidae]. 22 Oct 1992. Portugal: Terceira Island, Azores.
- 4020 T Steenberg (211) ← HP Ravn. *Sitona lineatus* [Coleoptera: Curculionidae]. Jul 1990. Denmark: Silkeborg, Århus.
- 4131 [DAT 10] AC Rath (F010). *Aphodius tasmaniae* [Coleoptera: Scarabaeidae]. 1983. Australia: Waitpinga, South Australia.
- 4228 [CRI 35-79; DAT 120] AC Rath (F120) ← AT Gillespie. Larva, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. 28 Jan 1988. Australia: Crops Research Inst..

- 5198 RA LeBrun (Bio 1020). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 20 May 1996. Germany.
- 5625 I Vänninen (SF85-56). Larva, *Tribolium castaneum* [Coleoptera: Tenebrionidae] as bait from soil. 10 Aug 1985. Finland: Toholampi, Vaasan Lääni.
- 5626 I Vänninen (SF86-38). Larva, *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. Aug 1986. Finland: Pälkäne, Hämeen Lääni.
- 6120 C López Lastra. Larva, *Diloboderus abderus* [Coleoptera: Scarabaeidae] from soil. Nov 1996. Argentina: Lincoln, Buenos Aires.
- 6392 TL Dubois (VD 5 rep b) ← V D'Amico. Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. Rec'd 22 Dec 1999. USA: Laboratory colony, USDA Forest Service, Ansonia, Connecticut.
- 6477 I Klingen (HAG.99). Larva, *Phyllopertha horticola* [Coleoptera: Scarabaeidae] in lawn. 18 Sep 1999. Norway: Moss, Østfold.
- 7234 AE Hajek (VD-1) ← V D'Amico. Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] reared from wood collected in Chicago, IL. Rec'd 5 Jan 2004. USA: Laboratory colony, USDA Forest Service, Ansonia, Connecticut.
- 8415 AE Hajek (FS6). Larva, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 5 Mar 1999. USA: Quarantine colony, USDA Forest Service, Ansonia, Connecticut.
- 8416 AE Hajek (VD3). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 26 Sep 1999. USA: Quarantine colony, USDA Forest Service, Ansonia, Connecticut.
- 8417 AE Hajek (VD7). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 20 Jul 1999. USA: Quarantine colony, USDA Forest Service, Ansonia, Connecticut.
- 8418 AE Hajek (VD8). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 10 Jul 1999. USA: Quarantine colony, USDA Forest Service, Ansonia, Connecticut.
- 8419 AE Hajek (VD9). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 8 Jul 1999. USA: Quarantine colony, Ansonia, Connecticut.

***Metarhizium flavoviride* W Gams & Rozsypal**

[Sordariomycetes: Hypocreales]

Clavicipitaceae

- 2024 [ARSEF 1184; INRA Mf-88] CBS (700.74) ← P Ferron. *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Acc'd 23 Oct 1985. France: Brittany, Morbihan.
- 2133 [CBS 218.56; IMI 170146] ATCC (32969) ← J Rozsypal. Larvae & pupae, *Ceutorhynchus macula-alba* [Coleoptera: Curculionidae]. 1956. Czech Republic. CULTURE EX TYPE.

8737 [CSIRO FI-1002] *Lachnosterna bidentata* [Coleoptera: Scarabaeidae]. 11 May 1993. Malaysia: Tapah.

Metarhizium flavoviride* var. *flavoviride

[Sordariomycetes: Hypocreales]

Clavicipitaceae

1184 [ARSEF 2024; CBS 700.74; INRA Mf-88] TJ Poprawski ← P Ferron. *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Jan 1974. France: Brittany, Morbihan.

4719 [DAT 130] AC Rath (F130). Adult, *Adoryphorus coultonii* [Coleoptera: Scarabaeidae]. 1 Sep 1988. Australia: Campbelltown, Tasmania.

4720 [DAT 133] AC Rath (F133). Adult, *Adoryphorus coultonii* [Coleoptera: Scarabaeidae]. 1 Sep 1988. Australia: Mt. Morriston, Ross, Tasmania.

***Metarhizium frigidum* Bischoff & Rehner in Bischoff,**

SA Rehner & Humber

[Sordariomycetes: Hypocreales]

Clavicipitaceae. See Mycologia 98: 737-745 (2006)

4124 [DAT 1] AC Rath (F001) ← Reinganum (124). Larva, *Adoryphorus* sp. [Coleoptera: Scarabaeidae]. 10 Jun 1994. Australia: Ballarat, Victoria. 'Ex type' isolate.

***Metarhizium guizhouense* QT Chen & HL Guo**

[Sordariomycetes: Hypocreales]

Clavicipitaceae. Segregated from the *M. anisopliae* species complex as part of genomic reclassification of Bischoff et al. (2009). Synonym: *M. taii* ZQ Liang & AY Liu. Teleomorph: *Cordyceps taii* ZQ Liang & AY Liu.

683 [QEC 433.0] DW Roberts (102381-9). Larva, [Coleoptera: Scarabaeidae] in sugar cane. 23 Oct 1981. PR China: Guanzhou, Kwon Tung.

819 GG Soares (21) ← JP Aeschlimann. 5th instar larva, *Sitona discoideus* [Coleoptera: Curculionidae]. 29 Mar 1982. France: Montpellier, Hérault.

977 [GCRI 134-82] RA Hall ← A Vey. *Melolontha melolontha* [Coleoptera: Scarabaeidae]. Acc'd 17 Oct 1983. France.

3603 IMI (152222) ← Deshpande. *Myllocerus discolor* [Coleoptera: Curculionidae]. Rec'd 26 Feb 1992. India: Mudigere.

4604 [DAT 473] AC Rath (F473) ← W Theunis (PNG 1). *Papuana woodlarkiana* [Coleoptera: Scarabaeidae]. 22 Jun 1993. Papua New Guinea: Lae, Morobe Province.

***Metarhizium lepidiotae* (Driver & Milner) JF Bischoff,**

SA Rehner & Humber

[Sordariomycetes: Hypocreales]

Clavicipitaceae. Synonym: *M. anisopliae* var. *lepidiotae* Driver et al. (2000; as var. *lepidiotum*). Placement of isolates here has been confirmed under the genomic reclassification of Bischoff et al. (2009).

7412 [CSIRO FI-0152] *Lepidiota consobrina* [Coleoptera:

Scarabaeidae]. 17 Jun 1986. Australia: Mossman, Queensland.

7488 [ARSEF 7453; CSIRO FI-1042] *Dermolepida albohirtum* [Coleoptera: Scarabaeidae]. 5 Mar 1994. Australia: Tully, Queensland. Ex-type isolate used by Driver et al. (2000) to describe *Metarhizium anisopliae* var. *lepidiotae*.

***Metarhizium majus* (JR Johnston) JF Bischoff, SA**

Rehner & Humber

[Sordariomycetes: Hypocreales]

Clavicipitaceae. Synonym: *M. anisopliae* var. *majus* (JR Johnston) MC Tulloch. Placement of isolates here has been confirmed under the genomic classification of Bischoff et al. (2009).

978 [GCRI 148-82] RA Hall ← A Vey. *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. Acc'd 17 Oct 1983. France.

1858 DW Roberts (Pol-42). [Coleoptera: Scarabaeidae]. Acc'd 19 Mar 1985. Poland.

1859 DW Roberts (Pol-32). [Coleoptera: Scarabaeidae]. Acc'd 19 Mar 1985. Poland.

1914 MC Rombach. Larva, *Oryctes* sp. [Coleoptera: Scarabaeidae]. Apr 1985. Philippines: nr. Tiaong Experimental Station, Quezon. Ex-epitype isolate for this species.

1946 MC Rombach (MMQ). *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. Acc'd 11 Sep 1985. Philippines: Tiaong Experimental Station, Quezon.

4566 [DAT 514] AC Rath (F514). Larva, *Anoplognathus* sp. [Coleoptera: Scarabaeidae]. 10 Mar 1994. Australia: Leighlands, New England, New South Wales.

4601 [DAT 515] AC Rath (F515). Larva, *Anoplognathus* sp. [Coleoptera: Scarabaeidae]. 10 Mar 1994. Australia: Glen Innes, New South Wales.

7505 [CSIRO FI-1449] *Anoplognathus* sp. [Coleoptera: Scarabaeidae]. 12 Jun 2001. Australia: Northern Queensland, Queensland.

***Metarhizium pingshaense* QT Chen & HL Guo**

[Sordariomycetes: Hypocreales]

Clavicipitaceae. Genomically confirmed and distinguished from *M. anisopliae* by the reclassification of Bischoff et al. (2009).

538 DW Roberts. *Oryctes rhinoceros* [Coleoptera: Scarabaeidae]. 20 Aug 1980. Thailand.

2162 BN Muthappa (PNG 12721). Larva, [Coleoptera: Scarabaeidae]. Rec'd 12 May 1986. Papua New Guinea.

2231 K Narayanan (7). *Zygogramma bicolorata* [Coleoptera: Chrysomelidae]. Rec'd 27 Aug 1986. India.

3210 RC Rajak (49). [Coleoptera]. Rec'd 3 Jun 1991. India.

3604 IMI (298059). *Scapanes australis* [Coleoptera: Scarabaeidae]. Rec'd 26 Feb 1992. Papua New Guinea.

- 4342 [DAT 491] AC Rath (F491) ← W Theunis (SOL IS 15). Larva(L3), [Coleoptera]. Rec'd 6 Jun 1994. Solomon Islands.
- 4610 [DAT 480] AC Rath (F480) ← W Theunis (SOL IS 4). Pupa, [Coleoptera]. 22 Jun 1993. Solomon Islands.
- 5197 M Browning ← RA LeBrun ← CW McCoy (Mada). *Diaprepes abbreviata* [Coleoptera: Curculionidae]. Rec'd 20 May 1996. USA: Florida.
- 7410 [CSIRO FI-0114] *Antitrogus parvulus* [Coleoptera: Scarabaeidae]. 30 Oct 1985. Australia: The Hummock, Bundaberg, Queensland.
- 7417 [CSIRO FI-0295] *Antitrogus mussoni* [Coleoptera: Scarabaeidae]. 13 Oct 1988. Australia: Bundaberg, Queensland.
- 7435 [CSIRO FI-0700] *Costelytra zealandica* [Coleoptera: Scarabaeidae]. 8 Oct 1990. New Zealand: South Island.
- 8420 AE Hajek (WU19). Adult, *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. 25 Jul 2000. PR China: Wuhe, Anhui.

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.

- 23 RS Soper (F84-1-1) ← RL Rabb. *Conoderus* sp. [Coleoptera: Elateridae]. 1961. USA: North Carolina.
- 724 [CNPAF 82-2-15-04; CP 25] RA Daoust. *Ceratomyxa arcuata* [Coleoptera: Chrysomelidae]. Feb 1982. Brazil: CNPAF, Goiânia, Goiás.
- 797 DA Rodriguez Sierra. Larva, *Ancognatha scarabaeoides* [Coleoptera: Scarabaeidae]. Jun 1981. Colombia: Madrid, Cundinamarca.
- 1046 J Aoki (Met. 6) ← K Yanase. *Popillia japonica* [Coleoptera: Scarabaeidae]. Jul 1977. Japan: Fuchu, Tokyo Prefecture.
- 1298 DW Roberts (MaT3JB-B) or (single spore isolate #9). *Popillia japonica* [Coleoptera: Scarabaeidae]. Feb 1978. USA: Clinton Corners, New York.
- 1878 DW Roberts (MaT3JB-A). *Popillia japonica* [Coleoptera: Scarabaeidae]. 1978. USA: Clinton Corners, New York.
- 1897 DW Roberts (V-14 (F84 mutant)). *Conoderus* sp. [Coleoptera: Elateridae]. Acc'd 11 Jun 1985. USA: California.
- 1910 DW Roberts ← S Keller (Ma52(S4)). *Otiorynchus sulcatus* [Coleoptera: Curculionidae]. Acc'd 18 Jun 1985. Germany.
- 1968 DR Smitley. *Strigoderma arboricola* [Coleoptera: Scarabaeidae]. Aug 1985. USA: East Lansing, Michigan.
- 2134 T Searle (E). *Phyllophaga ?anxia* [Coleoptera: Scarabaeidae]. Jul 1985. Canada: Southern Québec.

- 2469 JK Liebherr. Larva, [Coleoptera: Carabidae]. 24 Aug 1987. Mexico: 10.5 km S of Amecameca, Tepetlaxpa, Mexico.
- 2514 [CP 236B] SM dos Santos. *Diabrotica* sp. [Coleoptera: Chrysomelidae]. Oct 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2547 SV Krueger ← FL Consolieg and MG Villani. *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Oct 1987. USA: Syracuse, New York.
- 2575 [ATCC MYA-3093; IMI I91-613] RJ St. Leger (ME-1) ← Tate and Lyle Ltd (Batch No. B1830). *Curculio caryae* [Coleoptera: Curculionidae]. Acc'd 21 Jul 1988. USA: South Carolina. Ex-type culture; a complete genomic sequencing is being obtained for a single-spored reisolat (ARSEF 8820) of this isolate.
- 2981 T Searle (CWMA). Larva, *Listronotus oregonensis* [Coleoptera: Curculionidae]. 1988. Canada: Saint-Jean, Québec.
- 3108 SV Krueger (MaEC1). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3211 SV Krueger (MaEC2). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Nov 1989. USA: Syracuse, New York.
- 3388 I Majchrowicz (3a). *Tribolium castaneum* [Coleoptera: Tenebrionidae] on asparagus. 16 Jul 1991. USA: Orchard Farm, Yakima, Washington.
- 3608 [ARSEF 2575] IMI (I91-613) ← RJ St. Leger (ME-1) ← Tate and Lyle Ltd (Batch No. B1830). *Curculio caryae* [Coleoptera: Curculionidae]. Rec'd 26 Feb 1992. USA.
- 3721 RA LeBrun ← J Hanula. Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 3 Jun 1991. USA: Clinton, Connecticut.
- 4123 [ARSEF 2547] L Marold (ARSEF2547). *Rhizotrogus majalis* [Coleoptera: Scarabaeidae]. Rec'd 2 May 1994. USA: Syracuse, New York. Replaces ARSEF 2547.
- 5149 DL Hostetter (T100) ← IOB Armas. Larva, *Popillia japonica* [Coleoptera: Scarabaeidae] soil, pasture. 23 Jan 1996. Portugal: Terceira Island, Azores.
- 6472 SR Grugel. *Dectes texanus* [Coleoptera: Cerambycidae]. 3 Nov 1998. USA: Goodland, Kansas.
- 7424 [CSIRO FI-0358] Larva, *Heteronychus arator* [Coleoptera: Scarabaeidae]. 8 Feb 1989. Australia: Busselton, Western Australia.
- 7449 [CSIRO FI-0911] *Heteronyx* sp. [Coleoptera: Scarabaeidae]. 23 Jun 1992. Australia: Queensland.

***Mixed Culture* sp.**

The two members in these mixed cultures have not been successfully separated.

- 1043 J Aoki (Paec. 1). *Pyrrhalta fuscipennis* [Coleoptera: Chrysomelidae]. May 1973. Japan: Towada City, Aomori Prefecture. Single Spore Isolation attempted 8vi95. Mixture of PAESP @ VERTSP.

- 4387 LA Lacey (94138). *Holotrichia parallela* [Coleoptera: Scarabaeidae]. 5 May 1994. China: Cangzhou. *Paecilomyces fumosoroseus* and *Beauveria brongniartii*.
- 5188 S Gouli (GA-98). [Coleoptera: Lampyridae]. 26 May 1995. USA: Motyka's sugar maple stand, Williamstown, Vermont.
- 11718 T Wen (BB-10). Larva, [Coleoptera]. 2011. PR China: Kunming, Yunnan Province.

Mucor circinelloides van Tieghem

[Mucormycotina: Mucorales]

Mucoraceae

- 6470 LS Bauer (2UIC2463). Larva, *Anoplophora glabripennis* [Coleoptera: Cerambycidae] from laboratory colony, USDA Forest Service, NCRS. Rec'd 19 Feb 2000. USA: East Lansing, Michigan.

Ophiocordyceps aphodii (Mathieson) GH Sung, JM

Sung, Hywel-Jones & Spatafora

[Sordariomycetes: Hypocreales]

Ophiocordycipitaceae. Synonym: *Cordyceps aphodii* Mathieson

- 5498 [ATCC 34178; CBS 150.47] Larva, *Aphodius howitti* [Coleoptera: Scarabaeidae]. Rec'd 5 Jun 1997. Location not specified.

***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.

- 5184 S Gouli (GA-94). [Coleoptera: Curculionidae]. 25 Jun 1995. USA: Motyka's sugar maple stand, Williamstown, Vermont.
- 5193 S Gouli (GA-103). [Coleoptera: Curculionidae]. 23 Jun 1995. USA: R. Angellilo's sugar maple stand, North Field, Vermont.

Paecilomyces canadensis (Vuillemin) Brown & Smith

[Sordariomycetes: Hypocreales]

This species is usually treated as a synonym of *Isaria farinosa* but both this and any ultimate reclassification remain to be determined.

- 984 [FPMI 757] J Aoki (Paec. 6) ← K Katagiri ← T Kushida. *Heptophylla picea* [Coleoptera: Scarabaeidae]. Feb 1972. Japan: Hachioji, Tokyo Prefecture.

Paecilomyces carneus (Duché & R. Heim) A.H.S. Br. & G. Sm.

[Sordariomycetes: Hypocreales]

?Clavicipitaceae

- 11836 [ERL 2048] S Gouli (THR-11-37) and V Gouli. [Coleoptera: Staphylinidae]. 2011. USA: Sharon Springs, New York.

Pandora blunckii (Lakon ex Zimmerman) Humber

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae

- 915 S Keller (426). *Athalia rosae* [Coleoptera: Elateridae]. 1 Sep 1982. Switzerland.
- 917 S Keller (425). *Athalia rosae* [Coleoptera: Elateridae]. 1 Sep 1982. Switzerland: Zürich.
- 920 S Keller (430). *Athalia rosae* [Coleoptera: Elateridae]. 1 Sep 1982. Switzerland: Zürich.
- 1715 S Keller (514). *Athalia rosae* [Coleoptera: Elateridae]. 3 Oct 1984. Switzerland: Reckenholz, Zurich.
- 1716 S Keller (515). *Athalia rosae* [Coleoptera: Elateridae]. 3 Oct 1984. Switzerland: Reckenholz, Zurich.
- 1717 S Keller (516). *Athalia rosae* [Coleoptera: Elateridae]. 3 Oct 1984. Switzerland: Reckenholz, Zurich.
- 1718 S Keller (517). *Athalia rosae* [Coleoptera: Elateridae]. 3 Oct 1984. Switzerland: Reckenholz, Zurich.

Paraisaria dubia Samson & BL Brady

[Sordariomycetes: Hypocreales]

Ophiocordycipitaceae

- 5764 DG Holdom (900118-01). Larva, *Antitrogus rugulosus* [Coleoptera: Scarabaeidae: Melolonthinae] under sugar cane, in sandy soil. Sep 1990. Australia: On the coastal plain south of Brisbane, Rocky Point, Queensland.

***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.

- 2950 [CP 278] SP Wraight ← E Dias Quintela. *Chalcodermus bimaculatus* [Coleoptera: Curculionidae]. 23 Jun 1989. Brazil: CNPAF, Goiânia, Goiás.
- 3036 W Mechaber (weevil#2272). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Vaccinium angustifolium*. 20 May 1990. USA: Carver, Massachusetts.

***Pochonia bulbillosa*(?)** (W Gams & Malla) Zare & W

Gams

[Sordariomycetes: Hypocreales]

Clavicipitaceae

- 3035 W Mechaber (weevil#2209). Adult, *Anthonomus musculus* [Coleoptera: Curculionidae] on *Gaylussacia baccata*. 20 May 1990. USA: Carver, Massachusetts.

Pochonia chlamydosporia (Goddard) Zare & W

Gams

[Sordariomycetes: Hypocreales]

Clavicipitaceae. Major synonym: *Verticillium chlamydosporium* Goddard

- 3314 M Brownbridge. Larva, [Coleoptera: Scarabaeidae].

Rec'd 19 Mar 1991. USA: Perry's sugar maple stand, Orange County, Vermont.

Pochonia chlamydosporia* var. *chlamydosporia

[Sordariomycetes: Hypocreales]

Clavicipitaceae. Synonym: *Verticillium chlamydosporium* Goddard

- 2218 [CNPAF 86-06-05-6; CP 214] DW Roberts ← DMF Capalbo. *Lagria vilosa* [Coleoptera: Lagriidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.

***Polycephalomycetes* sp.**

[Sordariomycetes: Hypocreales]

- 9496 [SRCAMB VL-1325/1] V Likhovidov. [Coleoptera]. 8 Jul 2003. Russian Federation: Vladivostok, Primorsky Krai. Field Collection Number F-619.
- 9497 [SRCAMB VL-1951] V Likhovidov. [Coleoptera: Carabidae]. 25 Aug 2005. Belarus: Belavezhskaya Puscha National Park. Field Collection Number F-1106.

***Polycephalomycetes formosus* Kobayasi**

[Sordariomycetes: Hypocreales]

- 1424 S Balazy (1431). Larva, *Calosoma* sp. [Coleoptera: Carabidae] at ground level in deciduous forest. 29 Jul 1981. Poland: Wielkopolski National Park. Received as *Acremonium terricola* (Miller et al.) W. Gams.

***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.

- 410 CW McCoy. *Diaprepes abbreviata* [Coleoptera: Curculionidae]. 20 Jul 1979. USA: Apopka, Florida.
- 723 [CNPAF 82-1-6-10; CP 17] RA Daoust. *Lagria vilosa* [Coleoptera: Lagriidae]. 6 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 1951 [CENARGEN CG 301; CNPAF 85-05-02; CP 176] R Pereira. *Cerotoma* sp. [Coleoptera: Chrysomelidae]. 2 May 1985. Brazil: Campos, Rio de Janeiro.
- 2952 [CP 273] SP Wraight ← CA da Silva. *Lagria vilosa* [Coleoptera: Lagriidae]. 8 Nov 1988. Brazil: CNPAF, Goiânia, Goiás.
- 5876 FE Vega (EBCL 98005). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.
- 5877 FE Vega (EBCL 98008). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.

- 5880 FE Vega (EBCL 98015). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.

- 5882 FE Vega (EBCL 98022). Adult, *Hypothenemus hampei* [Coleoptera: Scolytidae]. Oct 1997. Benin: Niaouli.

- 6110 BL Parker (SPT-2-279). Adult, [Coleoptera: Scarabaeidae]. 24 Jan 1999. Syria: Al Kseabiia.

- 6188 FE Vega (EBCL 99024). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Dec 1998. Benin: Site 3, Niaouli.

- 6190 FE Vega (EBCL 99027). *Hypothenemus hampei* [Coleoptera: Scolytidae]. Dec 1998. Benin: Site 2, Niaouli.

- 8918 [ERL 196] BL Parker (AVRDC 0058B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

- 8919 [ERL 213] BL Parker (AVRDC 0286B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

- 8920 [ERL 267] BL Parker (AVRDC 0527B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

- 8921 [ERL 268] BL Parker (AVRDC 0529B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

- 8922 [ERL 280] BL Parker (AVRDC 0587B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

- 9371 A Morales (#1A). Larva, *Popillia japonica* [Coleoptera: Scarabaeidae]. 5 Nov 2004. USA: Battle Island State Park Golf Course, Fulton, New York.

- 9524 [SRCAMB VL-2059] V Likhovidov. Larva, [Coleoptera: Elateridae] Isolated from *Cordyceps* sp. Aug 2005. Belarus: Belavezhskaya Puscha National Park. Field Collection Number F-882.

***Scopulariopsis* sp.**

[Sordariomycetes: Microascales]

- 2169 BN Muthappa (PNG 12725). [Coleoptera: Curculionidae]. Rec'd 12 May 1986. Papua New Guinea.
- 2327 TJ Poprawski (8651). Nymph, *Leptinotarsa decemlineata* [Coleoptera: Chrysomelidae] on potato. 6 Nov 1986. France: Cognac, Charente.
- 8421 AE Hajek (WU6). *Anoplophora glabripennis* [Coleoptera: Cerambycidae]. Jul 2000. PR China: Wuhe, Anhui.
- 11652 [ERL 264] BL Parker (AVRDC 0518B). *Tenebrio molitor* [Coleoptera: Tenebrionidae] as bait from soil. 1994. Republic of China: Taiwan.

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

- 9479 [SRCAMB VL-1786] V Likhovidov. *Carabus* sp. [Coleoptera: Carabidae]. 29 Aug 2005. Ukraine: Autonomous Republic of Crimea. Field Collection Number F-738.

Sorospora uvella (Krassiltschik) Giard
[Sordariomycetes: Hypocreales]
Sorospora is the chlamydosporic state of fungi whose conidial states are classified as *Synghiocladium* species. Clumps of chlamydospores germinate and produce fasciculate synnemata bearing clusters of *Synghiocladium* phialides.

- 1123 PP Sikorowski ← J Kuhre. 4th instar larva, *Curculio caryae* [Coleoptera: Curculionidae] pecan tree. 14 Dec 1983. USA: West Helena, Arkansas.

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

- 9502 [SRCAMB VL-2052] V Likhovidov. Adult, *Carabus* sp. [Coleoptera: Carabidae]. 1993. Russian Federation: Kunashir Island, Sakhalin Region. Field Collection Number F-890.

Sterile mycelium

- 4009 T Steenberg (135) ← A Kirkeby-Thomse. Pupa, [Coleoptera: Cerambycidae] on spruce. Sep 1988. Denmark: Grib Skov, Zealand.
- 4243 [DAT 26] AC Rath (F26). *Adoryphorus coultonii* [Coleoptera: Scarabaeidae]. 1986. Australia: Newtown, Tasmania.

Stilbella buquetii (Montagne & Robin) Samson & HC Evans
[Sordariomycetes: Hypocreales]

- 2915 CBS (511.88). *Artipes* sp. [Coleoptera: Curculionidae]. 1988. USA: Florida.

Synnematium jonesii Speare
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae

- 5664 [ATCC 44767; IMI 205309] *Promecotheca papuana* [Coleoptera: Hispinae]. Rec'd 10 Feb 1998. Papua New Guinea.

***Tilachlidium* sp.**
[Hyphomycetes]

- 2415 M Shimazu (F-545). [Coleoptera: Elateridae]. 14 Jul 1986. Japan: Hachioji, Tokyo Prefecture.
- 10132 [ERL 1790] S Gouli and W Reid (BS-2010-1). [Coleoptera: Chrysomelidae]. 2010. USA: Florida.

Tolypocladium cylindrosporum W Gams
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae

- 7456 GM Duke and MS Goettel (LRC 172). [Coleoptera: Elateridae]. 12 May 2003. Canada: Agassiz, British Columbia.
- 7812 [SRCAMB VL-389] V Likhovidov. Larva, [Coleoptera: Elateridae] Isolated from stroma. 8 Aug 2001. Russian Federation: Lazovsky Nature Reserve, Primorsky Krai. Field Collection Number F-268.

Tolypocladium inflatum W Gams
[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae. Major synonym: *Tolypocladium niveum* (Rostrup) Bissett. Teleomorph: *Elaphocordyceps subsessilis* (Petch) GH Sung, JM Sung, Hywel-Jones & Spatafora

- 4877 KT Hodge (kth30A). [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4878 KT Hodge (kth30B). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485. .
- 4879 KT Hodge (kth30C). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4880 KT Hodge (kth30D). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4881 KT Hodge (kth30E). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485. .
- 4882 KT Hodge (kth30F). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4883 KT Hodge (kth30G). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan

- Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485. .
- 4884 [ATCC 200994; CBS 305.95; CCFC 006988; UAMH 8723] KT Hodge (kth30H). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485. .
- 4885 KT Hodge (kth30I). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4886 KT Hodge (kth30J). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4887 KT Hodge (kth30K). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4888 KT Hodge (kth30L). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4889 KT Hodge (kth30M). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4890 KT Hodge (kth30N). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4891 KT Hodge (kth30O). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4892 KT Hodge (kth30P). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4893 KT Hodge (kth30Q). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4894 KT Hodge (kth30R). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4895 KT Hodge (kth30S). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4896 KT Hodge (kth30T). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4897 KT Hodge (kth30U). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 4898 KT Hodge (kth30V). Larva, [Coleoptera: Scarabaeidae: Aphodiinae]. 28 Sep 1994. USA: Michigan Hollow State Forest, Danby, New York. Single ascospore isolate from *Cordyceps subsessilis*. Specimen deposited at Cornell Plant Pathology Herbarium as CUP 63485.
- 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*.
- 6484 BL Parker (SPT-KZ-412). Adult, [Coleoptera: Dermestidae] overwintering in soil. 3 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.534' E 076°36.541'. **RESTRICTED ACCESS:.**
contact Curator
- 6486 BL Parker (SPT-KR-415/2). Adult, [Coleoptera: Scarabaeidae] overwintering in soil. 11 Feb 2000. Kyrgyz Republic: GPS Coordinates N 43°40.597' E 075°02.855'. **RESTRICTED ACCESS:.**
contact Curator

6501 BL Parker (SPT-KZ-458). Adult, [Coleoptera: Carabidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:.**

contact Curator

Verticillium insectorum (Petch) W Gams
[Sordariomycetes: Hypocreales]

3715 RA LeBrun ← J Hanula (C-1). Adult, *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Summer 1991. Location not specified.

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.

4022 T Steenberg (216) ← A Kirkeby-Thomse. *Agelastica alni* [Coleoptera: Chrysomelidae] on *Alnus* spp. Aug 1990. Denmark.

4047 T Steenberg (295). *Aphodius fimetarius* [Coleoptera: Scarabaeidae]. Mar 1992. Denmark: Copenhagen, Tåstrup, Zealand.

4048 T Steenberg (297). Larva, [Coleoptera: Cantharidae]. Mar 1992. Denmark: Copenhagen, Tåstrup, Zealand.

5849 T Steenberg (SSL 82). Larva, *Alphitobius diaperinus* [Coleoptera: Tenebrionidae]. Rec'd 26 Aug 1998. Originally isolated from *Myzus persicae* [Homoptera: Aphididae].

5856 T Steenberg (SSL 607). Adult, *Carcinops pumilio* [Coleoptera: Histeridae]. Feb 1997. Denmark: Broiler house, Kværs, Jutland.

6487 BL Parker (SPT-KZ-417). Adult, [Coleoptera: Tenebrionidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:.**

contact Curator

6545 D Chandler (HRI 33.79). *Otiorhynchus sulcatus* [Coleoptera: Curculionidae]. Rec'd 13 Jul 2000. United Kingdom.

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

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

113 [ARSEF 82 (lost); ATCC 34292; FPMI 951] RG Kenneth (3085) ← A Uziel. Larva, *Hypera variabilis* [Coleoptera: Curculionidae] on alfalfa. Apr 1976. Israel: Sedé Eliyahu.

191 RG Kenneth (3095) or (E.p. 2) ← I Ben-Ze'ev. Larva, *Hypera variabilis* [Coleoptera: Curculionidae]. Apr 1976. Israel: Sedé Eliyahu.

192 RG Kenneth (3133) ← I Ben-Ze'ev. Larva, *Hypera variabilis* [Coleoptera: Curculionidae] on alfalfa. 2 Mar 1977. Israel: Sedé Eliyahu.

202 [RG Kenneth 3178] AA Muka ← JP Kramer. *Hypera punctata* [Coleoptera: Curculionidae]. Jul 1977. USA: Ithaca, New York.

2188 RJ Dysart. Larva, *Hypera punctata* [Coleoptera: Curculionidae]. 29 Apr 1986. USA: Farmington, Delaware.

3342 S Roberts. *Hypera postica* [Coleoptera: Curculionidae]. Spring 1991. USA: Eddyville, Illinois.

3343 S Roberts. *Hypera postica* [Coleoptera: Curculionidae]. Spring 1991. USA: LaSalle County, Illinois.

3344 S Roberts. *Hypera postica* [Coleoptera: Curculionidae]. Spring 1991. USA: Albion, Illinois.

396 [ARSEF ?1377] S Keller (48). *Agriotes sputator* [Coleoptera: Elateridae]. 4 May 1977. Switzerland.

1739 N Wilding (85). *Trechus quadristriatus* [Coleoptera: Carabidae]. 5 Sep 1978. United Kingdom: Rothamsted Experimental Station, Hertfordshire, England.

2505 J Eilenberg (KVL 12). *Agriotes sputator* [Coleoptera: Elateridae]. 2 Jun 1986. Denmark: Brogaard, Fårevejle, Vestsjælland.

Unidentified / Hyphomycetes

[Coleoptera]

Unknown species 8641

[Coleoptera: Buprestidae]

Agrilus planipennis 8155 8179 8183 8184

[Coleoptera: Coccinellidae]

Unknown species 5677

[Coleoptera: Curculionidae]

Unknown species 2225 5695

[Coleoptera: Scarabaeidae]

Cochliotus melolonthoides 11666*Popillia japonica* 5223 5224 5225 5226 5227*Rhizotrogus majalis* 2999

Unidentified sp.

[Coleoptera]

Unknown species 1634

[Coleoptera: Chrysomelidae]

Leptinotarsa decemlineata 3724*Oulema melanopus* 3980*Phyllotreta nigripes* 4037

[Coleoptera: Coccinellidae]

Hippodamia convergens 3821

[Coleoptera: Curculionidae]

Aracanthus 3478*Sternechus subsignatus* 3471

[Coleoptera: Scarabaeidae]

Aphodius tasmaniae 4140*Popillia japonica* 3714 3719 3722 3841*Acremonium alternatum*

[Coleoptera: Scolytidae]

Hypothenemus hampei 7282*Acremonium furcatum*

[Coleoptera: Curculionidae]

Hypera postica 1372*Aphanocladium album*

[Coleoptera: Curculionidae]

Hypera postica 1329*Aspergillus* sp.

[Coleoptera: Chrysomelidae]

Leptinotarsa decemlineata 6571

[Coleoptera: Curculionidae]

Anthonomus grandis 7048*Aspergillus flavus*

[Coleoptera: Cerambycidae]

Anoplophora glabripennis 6469

[Coleoptera: Scarabaeidae]

Pachnoda interrupta 6454

[Coleoptera: Tenebrionidae]

Tenebrio molitor 9381*Aspergillus nidulans*(?)

[Coleoptera: Curculionidae]

Diaprepes abbreviata 6515*Aspergillus parasiticus*

[Coleoptera: Curculionidae]

Unknown species 2173

Batkoa sp.

[Coleoptera: Cantharidae]

Unknown species 5810

Beauveria sp.

[Coleoptera]

Unknown species 5697 5831 7595

[Coleoptera: Buprestidae]

Agrilus planipennis 8110 8111 8112

8113 8116 8117 8119 8120 8121

8122 8123 8124 8125 8126 8127

8128 8129 8130 8132 8133 8134

8135 8136 8137 8138 8139 8140

8141 8143 8144 8145 8146 8147

8148 8149 8150 8151 8152 8153

8154 8156 8158 8159 8160 8161

8164 8166 8167 8168 8169 8170

8171 8172 8173 8174 8175 8176

8177 8178 8180 8181 8182 8185

8186 8187 8188

[Coleoptera: Chrysomelidae]

Basilepta fulvicornis 8250*Pachybrachis pallicornis* 547

[Coleoptera: Coccinellidae]

Unknown species 4853 5833 7591

Coccinella septempunctata 4027

[Coleoptera: Curculionidae]

Unknown species 7463

Anthonomus grandis 1835*Hypera postica* 1327*Shirahoshizo insidiosus* 1681

[Coleoptera: Elateridae]

Unknown species 7580

[Coleoptera: Lampyridae]

Unknown species 5186

[Coleoptera: Scarabaeidae]

Anomala cuprea 1682*Popillia japonica* 4390 4391 4392*Xyloryctes jamaicensis* 2412

[Coleoptera: Scolytidae]

Dendroctonus micans 9272*Tomicus pimperda* 4909 4910 4911

4912 4913 4914 4915 4916 4917

4918

Beauveria amorphia

[Coleoptera: Cerambycidae]

Psacotha hilaris 1680

[Coleoptera: Curculionidae]

Premnotrypes suturalis 1969

[Coleoptera: Scarabaeidae]

Adoryphorus coultonii 4149*Anomala costata* 1676*Popillia japonica* 4990*Beauveria amorphia*(?)

[Coleoptera: Cerambycidae]

Anoplophora glabripennis 6827*Beauveria asiatica*

[Coleoptera: Scarabaeidae]

Holotrichia parallela 4384 4474*Beauveria bassiana*

[Coleoptera]

Unknown species 293 301 350 754 1980

3197 3198 3199 4382 5979 6559

6560 6692 6693 6695 6696 6697

7164 7470 7972 9444 10347

[Coleoptera: Anthribidae]

Araecerus fasciculatus 413

[Coleoptera: Bruchidae]

Caryedon serratus 1186

[Coleoptera: Buprestidae]

Unknown species 6499

Agrilus planipennis 8771 8772 8773

8774 10393 10394 10395 10396

10397 10398 10399 10400 10401

10402 10403 10404 10405 10406

10407 10408 10409 10410 10411

10412 10413 10414 10415 10416

10417 10418 10419 10420 10421

10422 10423 10424 10425 10426

10427 10428 10429 10430 10431

10432 10433 10434 10435 10436

10437 10438 10439 10440 10441

10442 10443 10444 10445 10446

10447 10448 10449 10450 10451

10452 10453 10454 10455 10456

10457 10458 10459 10460 10461

10462 10463 10464 10465 10466

10467 10468

[Coleoptera: Carabidae]

Unknown species 952 1975 3386 6059

6099 6689 7241 7270 7581

Amara familiaris 4034*Amara plebeja* 4031*Bembidion lampros* 4032

[Coleoptera: Cerambycidae]

Unknown species 318 319 785 5072

6721 7251 7261 7266 7275 9442

Anoplophora glabripennis 6387 6390

6391 6393 7152 7153 7154 7155

7156 7157 7158 7159 7166 7167

7168 7169 7170 7171 7172 7173

7174 7175 7176 7177 7178 7179

8412 8413 8414

Aromia moschata 1559 1560 1561 1562

1563

Dectes texanus 6471*Enaphalodes rufulus* 7404*Moechotypa diphyis* 1678*Monochamus alternatus* 1679*Monochamus scutellatus* 7162 7163*Ortholeptura valida* 5997*Plectrodera scalator* 7160 7161 7165*Psacotha hilaris* 1041*Tetropium fuscum* 11660

[Coleoptera: Chrysomelidae]

Unknown species 504 751 1971 7244

7247 7271 7272 8835 8836 10350

11844

Cerotoma 951 1458 1467*Cerotoma arcuata* 731 732 756 931 934

2075

Crimissa 786 788 805*Crimissa cruralis* 4001*Diabrotica* 721 946 947 948 949 950

956 982 2512 2938 2942 3219 3287

Diabrotica balteata 3309*Diabrotica barberi* 2579*Diabrotica paranaensis* 739 752 758

809 937 938

Diabrotica speciosa 928 958 1060 1453

1454 1455 1456 1459 1460 1461

1462 1463 1464 1465 1466 1469

1470 1471 1472 1473 1475 1476

1954 1961 2511 2515 2520 2625 2626 8373	<i>Cyrtapistomus castaneus</i> 2270	<i>Rhopaea magnicornis</i> 4130 7813 8853 8854
<i>Diabrotica undecimpunctata</i> 201	<i>Diaprepes abbreviata</i> 412 416 433	<i>Sericesthis nigrolineata</i> 7853
<i>Diabrotica virgifera</i> 2330 3111	<i>Geraeus senilis</i> 3310 3311	[Coleoptera: Scolytidae]
<i>Diabrotica virgifera virgifera</i> 9297 9298 9299 9300 9301 9302	<i>Heilipodus erythropus</i> 8461	Unknown species 1566 3040
<i>Galerucella</i> sp. 5465	<i>Hypera postica</i> 1389 1398 1399 1515 4038 4049	<i>Dendroctonus ponderosae</i> 1849 1853
<i>Galerucina</i> 2463	<i>Listronotus oregonensis</i> 2983 2984 2985 2986	<i>Dryocoetes confusus</i> 1852 9184
<i>Leptinotarsa decemlineata</i> 149 252 317 340 344 353 384 505 506 507 509	<i>Metamasius</i> 842	<i>Hypothenemus hampei</i> 1480 2685 2686 2687 2688 2689 2690 2691 2692
510 534 535 1039 1079 1081 1106	<i>Metamasius callizona</i> 5986	2693 3440 3443 3445 3448 3453
1619 1620 1621 1622 1623 1624	<i>Metamasius hemipterus</i> 2642	3818 3819 5436 5437 5438 5439
1704 1705 1706 1707 1708 1709	<i>Oryzophagus oryzae</i> 3098	5440 5441 5442 5443 5444 5445
1710 1711 1712 1713 1721 1722	<i>Otiiorhynchus ligustici</i> 6884 6885	5446 5447 5448 5449 5450 5451
1723 1749 1750 1775 1776 1777	<i>Otiiorhynchus sulcatus</i> 815 1073 1074 1075 6552 7763 8078	5452 5453 5454 5455 5456 5457
1778 1779 1780 1781 1982 2030	<i>Phlyctinus callosus</i> 8756 8757	5458 5459 5460 5477 5478 5479
2031 2032 2695 2987 2988 2989	<i>Premnotryes latithorax</i> 5983 5984	5480 5481 5482 5483 5484 5485
2990 2991 5286 5533 5534 5535	<i>Premnotrypes vorax</i> 2248	5486 5487 5488 5489 5490 6526
5536 5537 5807 5813 6986 6987	<i>Rhynchites aequatus</i> 8037	6527 6528 6529 6530 6531 6532 7758 10471
6988 8998 9441	<i>Rhynchites baccus</i> 8668	<i>Ips stenographus</i> 6900
<i>Lilioceris lilii</i> 5195	<i>Rhynchophorus ferrugineus</i> 6903	<i>Ips typographus</i> 7525 7526
<i>Maecolaspis monrosi</i> 2509	<i>Sitona</i> 1647 8077	<i>Tomicus minor</i> 5071
<i>Notonata</i> 3437 3438 3439 3441 3442 3444 3446 3447 3450 3451 3452 3455	<i>Sitona discoideus</i> 816 1153 1154 1155 1163 1164 1171 1172 1173 1174	[Coleoptera: Staphylinidae]
<i>Odontota dorsalis</i> 5553	1175 1176 1177 1178 1179 1180	Unknown species 3112 4055
<i>Pyrrhalta luteola</i> 1509 1510 1511 1518 1519	1181 1183 1185 1188 1189 1190	<i>Anotylus rugosus</i> 4051 4056
<i>Pyrrhalta viburni</i> 9449	1191 1309 1311 1312 1313 1811	<i>Anotylus</i> sp. 4046
<i>Systema</i> 2079	1815 1816 1817 1818 1819 1820 1821	<i>Gyrophypnus angustatus</i> 4054
<i>Xanthogaleruca luteola</i> 5501	<i>Sitona humeralis</i> 1491	<i>Tachyporus</i> sp. 4028
[Coleoptera: Chrysomelidae: Hispinae]	<i>Sitona lineatus</i> 1156 1157 1158 1159 1160 1161 1162 1165 1167 1168	[Coleoptera: Tenebrionidae]
Unknown species 8494	1169 1170 1182 1192 1193 1194	Unknown species 757 783 787 6057 6064 6077 6078 6096 6113 6478 6483
[Coleoptera: Coccinellidae]	1306 4013 4015 4016 4019 4021 4041	<i>Alphitobius diaperinus</i> 5836 5838 5839 5840 5843 7941
Unknown species 6055 6061 6062 6063 6074 6075 6092 6095 6111 6112 11878	<i>Sitophilus</i> 7764 7773 7774	<i>Pterohelaus darlingensis</i> 8065
<i>Coccinella</i> 2033 2034	<i>Sternechus subsignatus</i> 1450	<i>Tenebrio molitor</i> 5623 8038
<i>Coccinella septempunctata</i> 2580 3534 4018	[Coleoptera: Curculionidae: Apioninae]	
<i>Coleomegilla maculata</i> 1956	<i>Cylas formicarius elegantulus</i> 5981 5982	Beauveria bassiana(?)
<i>Cycloneda sanguinea</i> 2010 8372 8462 8463	[Coleoptera: Elateridae]	[Coleoptera: Chrysomelidae]
<i>Hippodamia convergens</i> 4973 4974 4975	Unknown species 150 784 804 5670	Unknown species 6890 6891
[Coleoptera: Cucujidae: Silvaninae]	[Coleoptera: Lagriidae]	[Coleoptera: Scolytidae]
<i>Ahasverus advena</i> 5857	<i>Lagria vilosa</i> 2961	<i>Dendroctonus micans</i> 9271
[Coleoptera: Curculionidae]	[Coleoptera: Lampyridae]	
Unknown species 930 1061 2040 3667 4052 6216 6217 7202 7466 7471	<i>Cratomorphus diaphanus</i> 8464	Beauveria brongniartii
7769 7978 8520 8521 8522 8523	[Coleoptera: Languriidae]	[Coleoptera]
8524 8525 8526 8530 8705	Unknown species 3457	Unknown species 2660
<i>Anthonomus grandis</i> 1966 2559 2638 2639 2945 2946 3097 7795	[Coleoptera: Nitidulidae]	[Coleoptera: Carabidae]
<i>Anthonomus musculus</i> 3037	Unknown species 325	Unknown species 7268
<i>Apion</i> 4023	[Coleoptera: Pythidae]	[Coleoptera: Cerambycidae]
<i>Aracanthus</i> 753	<i>Pytho</i> 1854	<i>Anoplophora malasiaca</i> 6235 6412
<i>Ceutorhynchus litura</i> 3403	[Coleoptera: Rhizophagidae]	<i>Niphonoclea</i> 1431
<i>Chalcodermus</i> 941 942 943 953	<i>Rhizophagus grandis</i> 1848	[Coleoptera: Curculionidae]
<i>Chalcodermus aeneus</i> 336 337 733 734 735 736 738	[Coleoptera: Scarabaeidae]	<i>Barypeithes pellucida</i> 6213 6214 6215
<i>Conotrachelus nenuphar</i> 1016 8260 8261 8262 8263	Unknown species 6058 6686 7264	<i>Cyrtapistomus castaneus</i> 2271
<i>Cosmopolites</i> 1833	<i>Adoryphorus coultonii</i> 4135 4136	[Coleoptera: Elateridae]
<i>Cosmopolites sordidus</i> 1483 4798 4799	<i>Ancognatha scarabaeoides</i> 2249 2250	Unknown species 9452
<i>Curculio caryae</i> 2676	<i>Anomala cuprea</i> 1683	[Coleoptera: Scarabaeidae]
	<i>Anoplognathus</i> 8763	Unknown species 4380 4381
	<i>Aphodius tasmaniae</i> 8079	<i>Anomala costata</i> 985
	<i>Pachnoda interrupta</i> 6669 6676 6681	<i>Costelytra zealandica</i> 3054 7761
	<i>Phyllophaga</i> 5740 5741 5742 5743 5744 5745	<i>Holotrichia parallela</i> 4385 4386 4388 4465 4466 4467 4468 4469 4470 4471 4472 4473 4475 4476 4477 4478
	<i>Popillia japonica</i> 3716 3717 5148 5150	<i>Melolontha</i> 5355 5356 5357 5358 5359 5360 5361 5362 5363 5364

<i>Melolontha melolontha</i> 617 979 1067 1068 1069 1070 1071 1072 1076 1077 7528 <i>Popillia japonica</i> 4389 4458 4992 4993 4994 4995 [Coleoptera: Scolytidae] <i>Ips typographus</i> 4024	Cladosporium sphaerospermum [Coleoptera: Curculionidae] <i>Diaprepes abbreviata</i> 6516	Fusarium sp. [Coleoptera: Buprestidae] <i>Agrius planipennis</i> 8131 [Coleoptera: Chrysomelidae] <i>Liliocercis lilii</i> 4011 [Coleoptera: Curculionidae] <i>Anthonomus musculus</i> 3030 3031 3032 <i>Chalcodermus aeneus</i> 2568 2569 <i>Conotrachelus nenuphar</i> 8266 8267 <i>Otiorhynchus ligustici</i> 4825 <i>Sitona discoideus</i> 1310 [Coleoptera: Scarabaeidae] <i>Amphimallon solstitiale</i> 11670 11671 11672 11673 11674 11675 11677 11679 11680 11684 [Coleoptera: Scolytidae] <i>Dendroctonus micans</i> 9273 9274 <i>Hypothenemus hampei</i> 5461 5875 5878 5879 6602 7063
Beauveria caledonica [Coleoptera] Unknown species 2251 [Coleoptera: Scarabaeidae] <i>Amphimallon solstitiale</i> 8024 [Coleoptera: Scolytidae] Unknown species 1567	Conidiobolus sp. [Coleoptera: Curculionidae] <i>Hypera variabilis</i> 80 81	
Beauveria lii [Coleoptera: Coccinellidae] <i>Henosepilachna vigintioctopunctata</i> 11741	Conidiobolus coronatus [Coleoptera: Curculionidae] <i>Ceutorhynchus napi</i> 1572 1573 1574 1575	
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Beauveria pseudobassiana [Coleoptera] Unknown species 5668 [Coleoptera: Anthicidae] <i>Anthicus floralis</i> 157 [Coleoptera: Cerambycidae] Unknown species 2557 [Coleoptera: Chrysomelidae] <i>Paropsis charybdis</i> 3066 [Coleoptera: Coccinellidae] Unknown species 5678 [Coleoptera: Curculionidae] <i>Otiorhynchus sulcatus</i> 813 814 3065 <i>Sitona</i> 3063 [Coleoptera: Scarabaeidae] Unknown species 5669 <i>Adoryphorus coulunii</i> 4274 4721 <i>Aphodius tasmaniae</i> 3070 <i>Costelytra zealandica</i> 3055 [Coleoptera: Scolytidae] <i>Ips</i> 1855 <i>Tomicus minor</i> 4933 5070 [Coleoptera: Scolytidae (Tribe Ipini)] Unknown species 6229 [Coleoptera: Tenebrionidae] <i>Tribolium castaneum</i> 5622	Cordyceps sp. [Coleoptera: Curculionidae] <i>Sitophilus oryzae</i> 4852 [Coleoptera: Scarabaeidae] Unknown species 7848 <i>Popillia japonica</i> 3718	Hirsutella fusiformis [Coleoptera: Curculionidae] <i>Brachyderes incanus</i> 5474
	Cordyceps brongniartii [Coleoptera: Scarabaeidae] <i>Anomala cuprea</i> 7516 7517	Hirsutella thompsonii [Coleoptera: Carabidae] Unknown species 11819
	Cordyceps scarabaeicola [Coleoptera: Chrysomelidae] Unknown species 7277 7278	Isaria sp. [Coleoptera] Unknown species 9519
	Engyodontium rectidentatum [Coleoptera: Scarabaeidae] Unknown species 7805	Isaria amoenerosea [Coleoptera: Lagriidae] <i>Lagria vilosa</i> 741 744 2220 2958 2959 2960 4097 [Coleoptera: Meloidae] Unknown species 4849
Beauveria sungii [Coleoptera: Chrysomelidae] Unknown species 7279 7280 [Coleoptera: Scarabaeidae] Unknown species 5689 <i>Lachnosterna morosa</i> 1685	Erynia sp. [Coleoptera: Cantharidae] Unknown species 2664 5352 <i>Rhagonycha fulva</i> 2525 2536 2537 2538 2539 2553 2663	Isaria catenianulata [Coleoptera: Curculionidae] Unknown species 6241 <i>Brachyderes incanus</i> 6243
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Candida sp. [Coleoptera: Scolytidae] <i>Hypothenemus hampei</i> 5729	Evlachovaea kintrischica [Coleoptera: Chrysomelidae] <i>Agelastica alni</i> 7218 8058	Isaria coleopterorum [Coleoptera: Lampyridae] Unknown species 9509
		Isaria farinosa [Coleoptera] Unknown species 2355 9516 [Coleoptera: Buprestidae] <i>Agrius planipennis</i> 9944 9945 [Coleoptera: Carabidae] Unknown species 11831 <i>Agonum dorsale</i> 4029 4044 <i>Bembidion lampros</i> 4043 <i>Hapalus sp.</i> 4045 [Coleoptera: Cerambycidae] Unknown species 5073 5074 5075 5080 7276 <i>Anoplophora glabripennis</i> 8411

[Coleoptera: Chrysomelidae]
Unknown species 6491
Pyrrhalta luteola 1507 1508
[Coleoptera: Coccinellidae]
Unknown species 5754 5834
[Coleoptera: Curculionidae]
Unknown species 11830
Otiorhynchus sulcatus 2937
Premnotrypes vorax 799
Sitona lineatus 4039
[Coleoptera: Lagriidae]
Lagria vilosa 1957
[Coleoptera: Scarabaeidae]
Unknown species 6488 6489
[Coleoptera: Scolytidae]
Dendroctonus micans 9269 9270 9275
9276 9277 9278
[Coleoptera: Silphidae]
Unknown species 9511
[Coleoptera: Staphylinidae]
Staphylinus olens 4040
[Coleoptera: Tenebrionidae]
Unknown species 5699 11827
Alphitobius diaperinus 5858
Tenebrio molitor 8917

Isaria fumosorosea

[Coleoptera]
Unknown species 5694 7716 9602
[Coleoptera: Buprestidae]
Agrilus planipennis 8142
[Coleoptera: Chrysomelidae]
Unknown species 8840
Pyrrhalta luteola 1506
Spaethiella 2956
[Coleoptera: Coccinellidae]
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Lagria vilosa 722 2216 2217 2219 2221
[Coleoptera: Scarabaeidae]
Popillia japonica 2679
Rhopaea magnicornis 8892
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Alphitobius diaperinus 5844 5845 5846
5847
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Unknown species 7119
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Unknown species 7635 7636
[Coleoptera: Silphidae]
Unknown species 9459

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[Coleoptera]
Unknown species 11805

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Unknown species 9483

Lecanicillium lecanii

[Coleoptera: Buprestidae]
Agrilus planipennis 8115
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Plectrodera scalator 7181 7182
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Tachyporus hypnorum 4050

Lecanicillium muscarium

[Coleoptera: Buprestidae]
Agrilus planipennis 8114 8118 8157
8163 8165
[Coleoptera: Curculionidae]
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Hypera postica 1328 1401 1402 1403
Pissodes strobi 8048 8049 8050 8051
8052 8053 8054
Sitona lineatus 4033
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Dendroctonus micans 4036 9267 9268
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Lecanicillium muscarium(?)

[Coleoptera: Buprestidae]
Agrilus planipennis 8162
[Coleoptera: Curculionidae]
Conotrachelus nenuphar 8265

Lecanicillium nr. araneorum

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Unknown species 11811
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Unknown species 9460
[Coleoptera: Scolytidae]
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Lecanicillium pissodis

[Coleoptera: Curculionidae]
Pissodes strobi 8055 8056 8057

Lecanicillium sp. 2(?)

[Coleoptera]
Unknown species 2832

Metarhizium sp.

[Coleoptera: Chrysomelidae]
Unknown species 11849
Agelastica alni 7643
[Coleoptera: Scarabaeidae]
Amphimallon solstitialis 11668 11669
11685 11686
Dermolepida albohirtum 7493
Rhopaea magnicornis 7495 8851 8852
8855 8856 8857

Metarhizium anisopliae sensu lato

[Coleoptera]
Unknown species 4290 4333 4334 4335
4336 4337 4338 4339 4340 4341
4557 4558 4572 4582
Haphochelus marginalis 3148
[Coleoptera: Bruchidae]
Unknown species 932 954
[Coleoptera: Carabidae]
Unknown species 939 1901
[Coleoptera: Cerambycidae]
Agrianome spinicollis 7498 7499 7500
Anoplophora glabripennis 6388 6389
7180
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Brontispa longissima 8745 8746 8747
Cerotoma arcuata 760 2076 2077 2635
2941
Diabrotica 1885 2513
Diabrotica speciosa 1056 1958
[Coleoptera: Coccinellidae]
Coleomegilla maculata 808
[Coleoptera: Curculionidae]
Unknown species 8098 8099
Blosyrus asellus 9217 9218
Chalcodermus aeneus 725 929
Desiantha diversipes 8568 8569
Geraeus senilis 3305 3306 3308
Listronotus maculicollis 9374
Otiorhynchus ligustici 4819 4820 4821
4822 4823 4824
Otiorhynchus sulcatus 818 6549
Rhabdoscelus obscurus 8762 8828 8847
Sternecelus subsignatus 1989
[Coleoptera: Elateridae]
Unknown species 8543 8544 8545 8546
8547 8548 11850
Agriotes 6551 7494 7524
Agriotes sputator 1377
Conoderus 1903
Limonius canus 7000 7001 7002 7003
7004 7005 7006 7007 7008 7009
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Unknown species 2163 3479 7527 7529
Adoryphorus coultonii 4137 4138 4141
4142 4239 4346 4677 4716 4722
7815
Amphimallon majale 9373
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8743
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Anoplognathus hirsutus 4574 4779
Antitrogus consanguineus 8761
Antitrogus mussoni 7842 7865 7931
Antitrogus parvulus 7496 7819 7839
7854 7864 8832 8833 8834 8893
Aphodius tasmaniae 4125 4132 4133
4139 7845
Costelytra zealandica 3056 3057
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Cyclocephala 8837 8838
Dasygnathus dejeani 8839
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Heteronychus arator 7932 7933 7934
7935 7936 8549 8550 8551 8552

8553 8554 8555 8556 8557 8576 8848 8849 <i>Heteronyx</i> 7843 7844 8586 <i>Heteronyx piceus</i> 7451 8500 8558 8559 8582 8583 8592 8615 8616 8617 8618 8619 8620 8621 <i>Heteronyx rugosipennis</i> 8563 8564 8565 8566 8567 8577 8610 <i>Lepidiota consobrina</i> 7411 7827 7828 7846 8830 8831 8845 8850 <i>Lepidiota frenchi</i> 7829 7830 7831 8733 <i>Lepidiota gibbifrons</i> 7824 7825 7826 <i>Lepidiota negatoria</i> 7832 <i>Lepidiota noxia</i> 7504 <i>Lepidiota picticollis</i> 8501 <i>Lepidiota squamulata</i> 7816 <i>Melolontha melolontha</i> 7532 <i>Oryctes</i> 2156 2165 2166 2167 <i>Pachnoda interrupta</i> 6670 6671 6672 6673 6674 6675 6677 6678 6679 6680 6682 6683 6684 6685 <i>Papuana</i> 8748 <i>Phyllopertha horticola</i> 6901 <i>Phyllophaga ?anxia</i> 2135 2136 2137 2138 2139 <i>Phyllophaga anxia</i> 8499 <i>Popillia japonica</i> 1280 2548 3329 3330 3331 3332 3333 3334 3335 3336 3337 3338 3339 3340 3713 3720 4907 4908 9372 <i>Rhopaea magnicornis</i> 8492 8765 8766 8767 8829 8844 <i>Rhopaea verreauxii</i> 8495 <i>Sericesthis micans</i> 4568 4777 4778 <i>Sericesthis nigrolineata</i> 4780 7814 7863 <i>Sericesthis</i> 4134 4236 [Coleoptera: Staphylinidae] Unknown species 8734 [Coleoptera: Tenebrionidae] <i>Alphitobius diaperinus</i> 5837 5841 5842 5848 5850 <i>Tenebrio molitor</i> 8775 8776 8777 8778 8779 8780 8781 8782 8783 8784 8785 8786 8787 8788 8789 8790 8791 8792 8793 8794 8795 8796 8797 8798 8799 8858 8859 8860 8861 8862 8863 8864 8865 8866 8867 8868 8869 8870 8871 8872 8873 8874 8875 8876 8877 8878 8879 8880 8881 8882 8883 8884 8885 8886 8887 8894 8895 8896 8897 8898 8899 8900 8901 8902 8903 8904 8905 8906 8907 8908 8909 8910 8911 8912 8913 8914 8915 8916 8941 8942 8943 8944 8945 8946 8947 8948 8949 8950 8951 8952 8953 8954 8955 9235 9236 11945 11946 11947 <i>Tribolium castaneum</i> 3389 5624	[Coleoptera: Elateridae] <i>Conoderus</i> 2518 [Coleoptera: Scarabaeidae] <i>Heteronyx piceus</i> 7450 <i>Holotrichia consanguinea</i> 10475 <i>Holotrichia 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macula-alba</i> 2133 <i>Otiorhynchus sulcatus</i> 2024 [Coleoptera: Scarabaeidae] <i>Lachnosterna bidentata</i> 8737 Metarhizium flavoviride var. flavoviride ■ [Coleoptera: Curculionidae] <i>Otiorhynchus sulcatus</i> 1184 [Coleoptera: Scarabaeidae] <i>Adoryphorus coulunii</i> 4719 4720 Metarhizium frigidum [Coleoptera: Scarabaeidae] <i>Adoryphorus</i> 4124 Metarhizium guizhouense [Coleoptera: Curculionidae] <i>Mylocherus discolor</i> 3603 <i>Sitona discoideus</i> 819 [Coleoptera: Scarabaeidae] Unknown species 683 <i>Melolontha melolontha</i> 977 <i>Papuana woodlarkiana</i> 4604	Metarhizium lepidiotae [Coleoptera: Scarabaeidae] <i>Dermolepida albohirtum</i> 7488 <i>Lepidiota consobrina</i> 7412 Metarhizium majus [Coleoptera: Scarabaeidae] Unknown species 1858 1859 <i>Anoplognathus</i> 4566 4601 7505 <i>Oryctes</i> 1914 <i>Oryctes rhinoceros</i> 978 1946 Metarhizium pingshaense [Coleoptera] Unknown species 3210 4342 4610 [Coleoptera: Cerambycidae] <i>Anoplophora glabripennis</i> 8420 [Coleoptera: Chrysomelidae] <i>Zygogramma bicolorata</i> 2231 [Coleoptera: Curculionidae] <i>Diaprepes abbreviata</i> 5197 [Coleoptera: Scarabaeidae] Unknown species 2162 <i>Antitrogus mussoni</i> 7417 <i>Antitrogus parvulus</i> 7410 <i>Costelytra zealandica</i> 7435 <i>Oryctes rhinoceros</i> 538 <i>Scapanes australis</i> 3604 Metarhizium robertsii [Coleoptera: Carabidae] Unknown species 2469 [Coleoptera: Cerambycidae] <i>Dectes texanus</i> 6472 [Coleoptera: Chrysomelidae] <i>Cerotoma arcuata</i> 724 <i>Diabrotica</i> 2514 [Coleoptera: Curculionidae] <i>Curculio caryae</i> 2575 3608 <i>Listronotus oregonensis</i> 1981 <i>Otiorhynchus sulcatus</i> 1910 [Coleoptera: Elateridae] <i>Conoderus</i> 23 1897 [Coleoptera: Scarabaeidae] <i>Ancognatha scarabaeoides</i> 797 <i>Heteronychus arator</i> 7424 <i>Heteronyx</i> 7449 <i>Phyllophaga ?anxia</i> 2134 <i>Popillia japonica</i> 1046 1298 1878 3721 5149 <i>Rhizotrogus majalis</i> 2547 3108 3211 4123 <i>Strigoderma arboricola</i> 1968 [Coleoptera: Tenebrionidae] <i>Tribolium castaneum</i> 3388 Mixed Culture sp. 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Paecilomyces canadensis
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Chalcodermus bimaculatus 2950

Pochonia bulbillosa(?)
[Coleoptera: Curculionidae]
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Pochonia chlamydosporia
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Pochonia chlamydosporia var. chlamydosporia
[Coleoptera: Lagriidae]
Lagria vilosa 2218

Polycephalomyces sp.
[Coleoptera]
Unknown species 9496
[Coleoptera: Carabidae]
Unknown species 9497

Polycephalomyces formosus
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Cerotoma 1951
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Diaprepes abbreviata 410
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Unknown species 9524
[Coleoptera: Lagriidae]
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Unknown species 6110
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5882 6188 6190

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Tenebrio molitor 8918 8919 8920 8921
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Scopulariopsis sp.
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Anoplophora glabripennis 8421
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Leptinotarsa decemlineata 2327
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Unknown species 2169
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Tenebrio molitor 11652

Simplicillium lamellicola
[Coleoptera: Carabidae]
Carabus 9479

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[Coleoptera: Curculionidae]
Curculio caryae 1123

Sporothrix insectorum
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Carabus 9502

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Tolypocladium cylindrosporum
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Tolypocladium inflatum
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4881 4882 4883 4884 4885 4886
4887 4888 4889 4890 4891 4892
4893 4894 4895 4896 4897 4898

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[Coleoptera: Carabidae]
Unknown species 6501
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Unknown species 6484
[Coleoptera: Scarabaeidae]
Unknown species 6486

Verticillium insectorum
[Coleoptera: Curculionidae]
Otiorynchus sulcatus 3715

Verticillium lecanii
[Coleoptera: Cantharidae]
Unknown species 4048
[Coleoptera: Chrysomelidae]
Agelastica alni 4022
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Aphodius fimetarius 4047
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Unknown species 6487
Alphitobius diaperinus 5849

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[Coleoptera: Carabidae]
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 Unidentified sp. 1634
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 Location not specified
Beauveria bassiana 293 4382
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Beauveria bassiana 3197 3198 3199
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Lecanicillium evansii(?) 11805
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Metarhizium anisopliae sensu lato
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Metarhizium pingshaense 4342
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 10445 10446 10447 10448 10449
 10450 10451 10452 10453 10454
 10455 10456 10457 10458 10459
 10460 10461 10462 10463 10464
 10465 10466 10467 10468
 USA, Michigan
Beauveria bassiana 8771 8772 8773
 8774
Beauveria sp. 8110 8111 8112 8113
 8116 8117 8119 8120 8121 8122
 8123 8124 8125 8126 8127 8128
 8129 8130 8132 8133 8134 8135
 8136 8137 8138 8139 8140 8141
 8143 8144 8145 8146 8147 8148
 8149 8150 8151 8152 8153 8154
 8156 8158 8159 8160 8161 8164
 8166 8167 8168 8169 8170 8171

8172 8173 8174 8175 8176 8177
 8178 8180 8181 8182 8185 8186
 8187 8188 8131
Isaria farinosa 9944 9945
Isaria fumosorosea 8142
Lecanicillium lecanii 8115
Lecanicillium muscarium 8114 8118
 8157 8163 8165
Lecanicillium muscarium(?) 8162
 Unidentified / Hyphomycetes 8155
 8179 8183 8184

Coleoptera: Cantharidae

Denmark
Batkoa sp. 5810 2664
Verticillium lecanii 4048
 USA, New York
Erynia sp. 5352
Rhagonycha fulva
 Denmark
Erynia sp. 2525 2536 2537 2538
 2539 2553 2663

Coleoptera: Carabidae

Belarus
Polycephalomyces sp. 9497
 Brazil, Goiás
Metarhizium anisopliae sensu lato
 939
 Brazil, Mato Grosso
Beauveria bassiana 952
 Brazil, Pará
Metarhizium anisopliae sensu lato
 1901
 Ethiopia
Beauveria bassiana 6689
 France
Beauveria bassiana 1975
 Kazakhstan
Verticillium sp. 6501
 Mexico
Metarhizium robertsii 2469
 Republic of Korea
Beauveria bassiana 7241 7270
Beauveria brongniartii 7268
 Russian Federation
Beauveria bassiana 7581
 USA, Vermont
Hirsutella thompsonii 11819
Isaria farinosa 11831
 USA, Washington
Beauveria bassiana 3386
 Uzbekistan
Beauveria bassiana 6059 6099
Agonum dorsale
 Denmark
Isaria farinosa 4029 4044
Amara familiaris
 Denmark
Beauveria bassiana 4034
Amara plebeja
 Denmark
Beauveria bassiana 4031
Bembidion lampros
 Denmark
Beauveria bassiana 4032
Isaria farinosa 4043

<i>Calosoma</i> sp.	USA, New York	USA, Florida
Poland	<i>Beauveria bassiana</i> 6391 7158 7159	<i>Tilachlidium</i> sp. 10132
<i>Polycephalomycetes formosus</i> 1424	7179 8412 8413	USA, Vermont
<i>Carabus</i> sp.	<i>Isaria farinosa</i> 8411	<i>Beauveria bassiana</i> 11844
Russian Federation	<i>Anoplophora malasiaca</i>	<i>Metarhizium</i> sp. 11849
<i>Sporothrix insectorum</i> 9502	Japan	Vietnam
Ukraine	<i>Beauveria brongniartii</i> 6235 6412	<i>Beauveria bassiana</i> 751
<i>Simplicillium lamellicola</i> 9479	<i>Aromia moschata</i>	Yugoslavia, Serbia
<i>Hapalus</i> sp.	Italy	<i>Beauveria bassiana</i> 504
Denmark	<i>Beauveria bassiana</i> 1559 1560 1561	<i>Agelastica alni</i>
<i>Isaria farinosa</i> 4045	1562 1563	Denmark
<i>Trechus quadristriatus</i>	<i>Dectes texanus</i>	<i>Verticillium lecanii</i> 4022
United Kingdom	USA, Kansas	Republic of Georgia
<i>Zoophthora anglica</i> 1739	<i>Beauveria bassiana</i> 6471	<i>Evlachovaea kintrischica</i> 7218 8058
Coleoptera: Cerambycidae	<i>Metarhizium robertsii</i> 6472	Russian Federation
Brazil, Ceará	<i>Enaphalodes rufulus</i>	<i>Metarhizium</i> sp. 7643
<i>Beauveria bassiana</i> 785	USA, Arkansas	<i>Basilepta fulvicornis</i>
Denmark	<i>Beauveria bassiana</i> 7404	India
Sterile mycelium 4009	<i>Moechotypa diphyssis</i>	<i>Beauveria</i> sp. 8250
Ecuador	Japan	<i>Brontispa longissima</i>
<i>Beauveria pseudobassiana</i> 2557	<i>Beauveria bassiana</i> 1678	Australia
France	<i>Monochamus alternatus</i>	<i>Metarhizium anisopliae</i> sensu lato
<i>Beauveria bassiana</i> 5072	Japan	8745 8746 8747
<i>Isaria farinosa</i> 5073 5074 5075 5080	<i>Beauveria bassiana</i> 1679	Western Samoa
Japan	<i>Monochamus scutellatus</i>	<i>Metarhizium anisopliae</i> sensu
<i>Harposporium janus</i> 5601	USA, Michigan	stricto 2223
Mexico	<i>Beauveria bassiana</i> 7162 7163	<i>Ceratomyces</i> sp.
<i>Beauveria bassiana</i> 319	<i>Nipponoclea</i> sp.	Brazil, Mato Grosso
Republic of Korea	Philippines	<i>Beauveria bassiana</i> 951
<i>Beauveria bassiana</i> 6721 7251 7261	<i>Beauveria brongniartii</i> 1431	Brazil, Paraná
7266 7275	<i>Ortholeptura valida</i>	<i>Beauveria bassiana</i> 1458
<i>Isaria farinosa</i> 7276	USA, Oregon	Brazil, Rio de Janeiro
Russian Federation	<i>Beauveria bassiana</i> 5997	<i>Purpureocillium lilacinum</i> 1951
<i>Beauveria bassiana</i> 9442	<i>Phoracantha semipunctata</i>	Brazil, Santa Catarina
USA, Rhode Island	Malawi	<i>Beauveria bassiana</i> 1467
<i>Beauveria bassiana</i> 318	<i>Beauveria malawiensis</i> 7760	<i>Ceratomyces arcuata</i>
<i>Agrianome spinicollis</i>	<i>Plectrodera scalator</i>	Brazil, Amazonas
Australia	USA, Michigan	<i>Beauveria bassiana</i> 731 732 756
<i>Metarhizium anisopliae</i> sensu lato	<i>Beauveria bassiana</i> 7160 7161 7165	Brazil, Bahia
7498 7499 7500	<i>Lecanicillium lecanii</i> 7181 7182	<i>Beauveria bassiana</i> 2075
<i>Anoplophora glabripennis</i>	<i>Psacotheca hilaris</i>	Brazil, Goiás
PR China	Japan	<i>Beauveria bassiana</i> 931 934
<i>Beauveria amorpha</i> (?) 6827	<i>Beauveria amorpha</i> 1680	<i>Metarhizium anisopliae</i> sensu lato
<i>Beauveria bassiana</i> 6387 6390 7155	<i>Beauveria bassiana</i> 1041	760 2076 2077 2635 2941
7156 7157 7166 7167 7168 7169	<i>Tetropium fuscum</i>	<i>Metarhizium robertsii</i> 724
7170 7171 7172 7173 7174 7175	Norway	<i>Crimissa</i> sp.
7176 7177 7178 8414	<i>Beauveria bassiana</i> 11660	Brazil, Ceará
<i>Metarhizium pingshaense</i> 8420	Coleoptera: Chrysomelidae	<i>Beauveria bassiana</i> 786 788 805
<i>Scopulariopsis</i> sp. 8421	Australia	<i>Crimissa cruralis</i>
USA, Connecticut	<i>Beauveria bassiana</i> 8835 8836	Brazil, Ceará
<i>Beauveria bassiana</i> 6393	<i>Isaria fumosorosea</i> 8840	<i>Beauveria bassiana</i> 4001
<i>Metarhizium anisopliae</i> sensu lato	Brazil, Goiás	<i>Diabrotica</i> sp.
6388	<i>Beauveria bassiana</i> 1971	Brazil
<i>Metarhizium brunneum</i> 6392 7234	Kazakhstan	<i>Beauveria bassiana</i> 3219
8415 8416 8417 8418 8419	<i>Isaria farinosa</i> 6491	Brazil, Amazonas
USA, Illinois	Mexico	<i>Beauveria bassiana</i> 2512
<i>Beauveria bassiana</i> 7152 7153 7154	<i>Beauveria bassiana</i> (?) 6890 6891	Brazil, Goiás
<i>Metarhizium anisopliae</i> sensu lato	Nepal	<i>Beauveria bassiana</i> 956 2938 2942
7180	<i>Cordyceps scarabaeicola</i> 7277 7278	<i>Metarhizium anisopliae</i> sensu lato
USA, Massachusetts	Republic of Kazakhstan	1885 2513
<i>Metarhizium anisopliae</i> sensu lato	<i>Beauveria bassiana</i> 10350	<i>Metarhizium robertsii</i> 2514
6389	Republic of Korea	Brazil, Mato Grosso
USA, Michigan	<i>Beauveria bassiana</i> 7244 7247 7271	<i>Beauveria bassiana</i> 946 947 948 949
<i>Aspergillus flavus</i> 6469	7272	950 982
<i>Mucor circinelloides</i> 6470	<i>Beauveria sungii</i> 7279 7280	Colombia
		<i>Beauveria bassiana</i> 721

Fungus by Host and Location

Coleoptera: Chrysomelidae

Coleoptera: Coccinellidae

Mexico
Beauveria bassiana 3287
Diabrotica balteata
Mexico
Beauveria bassiana 3309
Diabrotica barberi
USA, South Dakota
Beauveria bassiana 2579
Diabrotica paranaensis
Brazil, Goiás
Beauveria bassiana 739 752 758 809
Brazil, Mato Grosso
Beauveria bassiana 937 938
Diabrotica speciosa
Argentina
Beauveria bassiana 2515 8373
Brazil, Alagoas
Beauveria bassiana 1954
Brazil, Bahia
Beauveria bassiana 1961
Metarhizium anisopliae sensu lato
1958
Brazil, Goiás
Beauveria bassiana 928 1476 2625
2626
Brazil, Paraná
Beauveria bassiana 958 1060 1453
1454 1455 1461 1462 1463 1466
1469 2511 2520
Metarhizium anisopliae sensu lato
1056
Brazil, Rio Grande do Sul
Beauveria bassiana 1456 1459 1460
1464 1465 1475
Brazil, Santa Catarina
Beauveria bassiana 1470 1471 1472
1473
Diabrotica undecimpunctata
USA, Oregon
Beauveria bassiana 201
Diabrotica virgifera
Mexico
Beauveria bassiana 2330
USA, Nebraska
Beauveria bassiana 3111
Diabrotica virgifera virgifera
Mexico
Beauveria bassiana 9297 9298 9299
9300 9301 9302
Galerucella sp.
USA, Texas
Beauveria bassiana 5465
Galerucina sp.
France
Beauveria bassiana 2463
Leptinotarsa decemlineata
Canada, Ontario
Beauveria bassiana 5807
Canada, Québec
Beauveria bassiana 2987 2988 2989
2990 2991
Commonwealth of Independent States
Beauveria bassiana 2695
France
Beauveria bassiana 149 384 1982
Scopulariopsis sp. 2327

Germany
Beauveria bassiana 340
Italy
Beauveria bassiana 1106
Location not specified
Beauveria bassiana 5286
Unidentified sp. 3724
Russian Federation
Beauveria bassiana 9441
USA, Maine
Beauveria bassiana 252 353
USA, Maryland
Beauveria bassiana 8998
USA, Michigan
Aspergillus sp. 6571
Beauveria bassiana 5813
USA, New York
Beauveria bassiana 534 535 1039
1081 1619 1620 1621 1622 1623
1624 1704 1705 1706 1707 1708
1709 1710 1711 1712 1713 1721
1722 1723 1749 1750 1775 1776
1777 1778 1779 1780 1781 2030
2031 2032 5533 5534 5535 5536
5537 6986 6987 6988
USA, Rhode Island
Beauveria bassiana 317
USA, Washington
Beauveria bassiana 344 1079
Yugoslavia
Beauveria bassiana 505 506 507 510
Yugoslavia, Croatia
Beauveria bassiana 509
Lilioceris lili
Beauveria bassiana 5195
Denmark
Fusarium sp. 4011
Maecolaspis monrosi
Argentina
Beauveria bassiana 2509
Notonata sp.
Costa Rica
Beauveria bassiana 3437 3438 3439
3441 3442 3444 3446 3447 3450
3451 3452 3455
Odontota dorsalis
Beauveria bassiana 5553
Oulema melanopus
France
Unidentified sp. 3980
Pachybrachis pallicornis
Malaysia
Beauveria sp. 547
Paropsis charybdis
New Zealand
Beauveria pseudobassiana 3066
Phyllotreta nigripes
Denmark
Unidentified sp. 4037
Pyrrhalta fuscipennis
Japan
Mixed Culture sp. 1043
Pyrrhalta luteola
France
Beauveria bassiana 1509 1510 1511
1518 1519

Isaria farinosa 1507 1508
Isaria fumosorosea 1506
Lecanicillium lecanii 1505
Pyrrhalta viburni
Russian Federation
Beauveria bassiana 9449
Spaethiella sp.
Brazil, Amazonas
Isaria fumosorosea 2956
Systema sp.
Brazil, Goiás
Beauveria bassiana 2079
Xanthogaleruca luteola
Argentina
Beauveria bassiana 5501
Zygogramma bicolorata
India
Metarhizium pingshaense 2231
Coleoptera: Chrysomelidae: Hispinae
Beauveria bassiana 8494
Coleoptera: Coccinellidae
Beauveria bassiana 11878
Republic of Korea
Beauveria sp. 4853
Russian Federation
Beauveria sp. 7591
Turkey
Beauveria pseudobassiana 5678
Beauveria sp. 5833
Isaria farinosa 5754 5834
Unidentified / Hyphomycetes 5677
Uzbekistan
Beauveria bassiana 6055 6061 6062
6063 6074 6075 6092 6095 6111
6112
Coccinella sp.
USA, New York
Beauveria bassiana 2033 2034
Coccinella septempunctata
Denmark
Beauveria bassiana 4018
Beauveria sp. 4027
Location not specified
Beauveria bassiana 3534
Ukraine
Isaria fumosorosea 9521
USA, Michigan
Beauveria bassiana 2580
Coleomegilla maculata
Brazil, Alagoas
Beauveria bassiana 1956
Brazil, Goiás
Metarhizium anisopliae sensu lato
808
Cycloneda sanguinea
Argentina
Beauveria bassiana 2010 8372 8462
8463
Henosepilachna vigintioctopunctata
PR China
Beauveria lili 11741
Hippodamia convergens
Mexico
Unidentified sp. 3821

USA, New York <i>Beauveria bassiana</i> 4973 4974 4975	<i>Apion</i> sp. Denmark <i>Beauveria bassiana</i> 4023	<i>Curculio caryae</i> USA <i>Metarhizium robertsii</i> 3608
Coleoptera: Cucujidae: Silvaninae <i>Ahasverus advena</i> Denmark <i>Beauveria bassiana</i> 5857	<i>Aracanthus</i> sp. Brazil, Ceará <i>Beauveria bassiana</i> 753 Brazil, Rio Grande do Sul Unidentified sp. 3478	USA, Arkansas <i>Sorosporella uvella</i> 1123 USA, Georgia <i>Beauveria bassiana</i> 2676 USA, South Carolina <i>Metarhizium robertsii</i> 2575
Coleoptera: Curculionidae <i>Metarhizium anisopliae</i> sensu lato 8098 8099	<i>Artipes</i> sp. USA, Florida <i>Stilbella buquetii</i> 2915	<i>Cyrtopistomus castaneus</i> USA, Kentucky <i>Beauveria bassiana</i> 2270 <i>Beauveria brongniartii</i> 2271
Argentina <i>Beauveria bassiana</i> 7202 7466 7471 8520 8521 8522 8523 8524 8525 8526 8530 <i>Beauveria</i> sp. 7463	<i>Barypeithes pellucida</i> USA, New York <i>Beauveria brongniartii</i> 6213 6214 6215	<i>Desiantha diversipes</i> <i>Metarhizium anisopliae</i> sensu lato 8568 8569
Brazil, Goiás <i>Beauveria bassiana</i> 930	<i>Blosyrus asellus</i> USA, Hawaii <i>Metarhizium anisopliae</i> sensu lato 9217 9218	<i>Diaprepes abbreviata</i> Location not specified <i>Beauveria bassiana</i> 433
Brazil, Paraná <i>Beauveria bassiana</i> 1061	<i>Brachyderes incanus</i> Netherlands <i>Hirsutella fusiformis</i> 5474	USA, Florida <i>Aspergillus nidulans</i> (?) 6515 <i>Beauveria bassiana</i> 412 416 <i>Cladosporium sphaerospermum</i> 6516
Denmark <i>Beauveria bassiana</i> 4052	PR China <i>Isaria cateniannulata</i> 6243	<i>Metarhizium pingshaense</i> 5197 <i>Purpureocillium lilacinum</i> 410
Indonesia, Sulawesi Selatan, Celebes <i>Aspergillus parasiticus</i> 2173 <i>Metarhizium brunneum</i> 2210 Unidentified / Hyphomycetes 2225	<i>Ceutorhynchus litura</i> Location not specified <i>Beauveria bassiana</i> 3403	<i>Geraeus senilis</i> Mexico <i>Beauveria bassiana</i> 3310 3311 <i>Metarhizium anisopliae</i> sensu lato 3305 3306 3308
Papua New Guinea <i>Scopulariopsis</i> sp. 2169	<i>Ceutorhynchus macula-alba</i> Czech Republic <i>Metarhizium flavoviride</i> 2133	<i>Heilipodus erythropus</i> Argentina <i>Beauveria bassiana</i> 8461
PR China <i>Isaria cateniannulata</i> 6241	<i>Ceutorhynchus napi</i> Switzerland <i>Conidiobolus coronatus</i> 1572 1573 1574 1575	<i>Hypera postica</i> Denmark <i>Beauveria bassiana</i> 4038 4049
Republic of Korea <i>Beauveria bassiana</i> 2040 <i>Lecanicillium muscarium</i> 7248 Unidentified / Hyphomycetes 5695	<i>Chalcodermus</i> sp. Brazil, Mato Grosso <i>Beauveria bassiana</i> 941 942 943 953	France <i>Acremonium furcatum</i> 1372 <i>Aphanocladium album</i> 1329 <i>Beauveria bassiana</i> 1389 1398 1399 1515 <i>Beauveria</i> sp. 1327 <i>Lecanicillium muscarium</i> 1328 1401 1402 1403
USA, Hawaii <i>Beauveria bassiana</i> 8705	<i>Chalcodermus aeneus</i> Brazil, Goiás <i>Beauveria bassiana</i> 733 734 735 736 738 <i>Metarhizium anisopliae</i> sensu lato 725 929	USA, Illinois <i>Zoophthora phytonomi</i> 3342 3343 3344
USA, New York <i>Beauveria bassiana</i> 6216 6217	USA, Georgia <i>Beauveria bassiana</i> 336 337 <i>Fusarium</i> sp. 2568 2569	<i>Hypera punctata</i> USA, Delaware <i>Zoophthora phytonomi</i> 2188
USA, Vermont <i>Isaria farinosa</i> 11830 <i>Paecilomyces</i> sp. 5184 5193	<i>Chalcodermus bimaculatus</i> Brazil, Goiás <i>Penicillium</i> sp. 2950	USA, New York <i>Zoophthora phytonomi</i> 202
Canada, British Columbia <i>Beauveria bassiana</i> 7978	<i>Conotrachelus nenuphar</i> Location not specified <i>Beauveria bassiana</i> 1016	<i>Hypera variabilis</i> Israel <i>Conidiobolus osmodes</i> 79 <i>Conidiobolus</i> sp. 80 81 <i>Zoophthora phytonomi</i> 113 191 192
Indonesia <i>Metarhizium brunneum</i> 2224	USA, Michigan <i>Beauveria bassiana</i> 8260 8261 8262 8263 <i>Fusarium</i> sp. 8266 8267 <i>Lecanicillium muscarium</i> (?) 8265	<i>Larinus</i> sp. Switzerland <i>Beauveria varroae</i> 2694
United Kingdom <i>Beauveria bassiana</i> 7769	<i>Cosmopolites</i> sp. Brazil <i>Beauveria bassiana</i> 1833	<i>Listronotus maculicollis</i> USA, New York <i>Metarhizium anisopliae</i> sensu lato 9374
USA, New York <i>Beauveria bassiana</i> 3667	<i>Cosmopolites sordidus</i> Brazil, Espírito Santo <i>Beauveria bassiana</i> 1483	
<i>Anthonomus grandis</i> Brazil <i>Beauveria</i> sp. 1835	West Africa <i>Beauveria bassiana</i> 4798 4799	
Brazil, São Paulo <i>Beauveria bassiana</i> 1966 2559 2638 2639 2945 2946		
USA, Texas <i>Aspergillus</i> sp. 7048 <i>Beauveria bassiana</i> 3097 7795		
<i>Anthonomus musculus</i> USA, Massachusetts <i>Beauveria bassiana</i> 3037 <i>Penicillium</i> sp. 3036 <i>Pochonia bulbillosa</i> (?) 3035		
USA, New Jersey <i>Fusarium</i> sp. 3030 3031 3032		

Fungus by Host and Location

Coleoptera: Curculionidae

Coleoptera: Elateridae

Listronotus oregonensis
Canada, Québec
Beauveria bassiana 2983 2984 2985 2986
Metarhizium robertsii 2981
Litodactylus leucogaster
USA, Florida
Isaria javanica 322
Metamasius sp.
Colombia
Beauveria bassiana 842
Metamasius callizona
USA, Florida
Beauveria bassiana 5986
Metamasius hemipterus
Brazil, Paraná
Beauveria bassiana 2642
Myllocerus discolor
India
Metarhizium guizhouense 3603
Oryzophagus oryzae
Brazil, Rio Grande do Sul
Beauveria bassiana 3098
Otiorynchus ligustici
Hungary
Beauveria bassiana 6884 6885
USA, New York
Fusarium sp. 4825
Metarhizium anisopliae sensu lato 4819 4820 4821 4822 4823 4824
Otiorynchus sulcatus
Australia
Metarhizium brunneum 4228
France
Beauveria bassiana 815 1073 1074 1075
Beauveria pseudobassiana 813 814
Metarhizium anisopliae sensu lato 818
Metarhizium brunneum 817 820
Metarhizium flavoviride 2024
Metarhizium flavoviride var. *flavoviride* 1184
Germany
Metarhizium brunneum 5198
Metarhizium robertsii 1910
Location not specified
Verticillium insectorum 3715
New Zealand
Beauveria bassiana 8078
Beauveria pseudobassiana 3065
United Kingdom
Beauveria bassiana 6552 7763
Metarhizium anisopliae sensu lato 6549
Metarhizium anisopliae sensu stricto 6546
Verticillium lecanii 6545
USA, Oregon
Isaria farinosa 2937
Phlyctinus callosus
Australia
Beauveria bassiana 8756 8757

Pissodes strobi
Canada, British Columbia
Lecanicillium muscarium 8048 8049 8050 8051 8052 8053 8054
Lecanicillium pissodis 8055 8056 8057
Premnotryes latithorax
Peru
Beauveria bassiana 5983 5984
Premnotryes suturicallus
Peru
Beauveria amorpha 1969
Premnotryes vorax
Colombia
Beauveria bassiana 2248
Isaria farinosa 799
Rhabdoscelus obscurus
Australia
Metarhizium anisopliae sensu lato 8762 8828 8847
Rhynchites aequatus
Denmark
Beauveria bassiana 8037
Rhynchites baccus
Turkey
Beauveria bassiana 8668
Rhynchophorus ferrugineus
Iran
Beauveria bassiana 6903
Shirahoshizo insidiosus
Japan
Beauveria sp. 1681
Sitona sp.
France
Beauveria bassiana 1647
New Zealand
Beauveria bassiana 8077
Beauveria pseudobassiana 3063
Sitona discoideus
France
Beauveria bassiana 816 1185 1191
Metarhizium guizhouense 819
Morocco
Beauveria bassiana 1153 1154 1155 1163 1164 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1183 1188 1189 1190 1309 1311 1312 1313 1811 1815 1816 1817 1818 1819 1820 1821
Fusarium sp. 1310
Sitona humeralis
France
Beauveria bassiana 1491
Sitona lineatus
Denmark
Beauveria bassiana 4013 4015 4016 4019 4021 4041
Isaria farinosa 4039
Lecanicillium muscarium 4033
Metarhizium brunneum 4020
France
Beauveria bassiana 1156 1157 1158 1159 1160 1161 1162 1165 1167 1168 1169 1170 1182 1192 1193 1194 1306

Sitophilus sp.
United Kingdom
Beauveria bassiana 7764 7773 7774
Sitophilus oryzae
Republic of Korea
Cordyceps sp. 4852
Sternechus subsignatus
Brazil, Paraná
Beauveria bassiana 1450
Metarhizium anisopliae sensu lato 1989
Brazil, Rio Grande do Sul
Unidentified sp. 3471

Coleoptera: Curculionidae: Apioninae

Cylas formicarius elegantulus
Peru
Beauveria bassiana 5982
USA, Florida
Beauveria bassiana 5981

Coleoptera: Dermestidae

Kazakhstan
Verticillium sp. 6484

Coleoptera: Elateridae

Australia
Metarhizium anisopliae sensu lato 8543 8544 8545 8546 8547 8548
Belarus
Purpureocillium lilacinum 9524
Lecanicillium fungicola 9483
Brazil, Ceará
Beauveria bassiana 784 804
Canada, British Columbia
Tolypocladium cylindrosporum 7456
France
Beauveria bassiana 150
Japan
Tilachlidium sp. 2415
Russian Federation
Beauveria brongniartii 9452
Beauveria sp. 7580 7635 7636
Tolypocladium cylindrosporum 7812
Turkey
Beauveria bassiana 5670
USA, New York
Lecanicillium nr. *araneorum* 11811
Metarhizium anisopliae sensu lato 11850
Agriotes sp.
Germany
Evlachovaea sp. 7403
Switzerland
Metarhizium anisopliae sensu lato 7524
United Kingdom
Metarhizium anisopliae sensu lato 6551
USA, Oregon
Metarhizium anisopliae sensu lato 7494
Metarhizium brunneum 2107

Agriotes sputator
Denmark
Zoophthora anglica 2505
Switzerland
Metarhizium anisopliae sensu lato
1377
Zoophthora anglica 396
Athalia rosae
Switzerland
Pandora blunckii 915 917 920 1715
1716 1717 1718
Conoderus sp.
New Zealand
Metarhizium anisopliae sensu
stricto 2518
USA
Metarhizium anisopliae sensu lato
1903
USA, California
Metarhizium robertsii 1897
USA, North Carolina
Metarhizium robertsii 23
Limonius canus
USA, Washington
Metarhizium anisopliae sensu lato
7000 7001 7002 7003 7004 7005
7006 7007 7008 7009

Coleoptera: Hispinae
Promecotheca papuana
Papua New Guinea
Synnematium jonesii 5664

Coleoptera: Histeridae
Carcinops pumilio
Denmark
Verticillium lecanii 5856

Coleoptera: Lagriidae
Lagria vilosa
Brazil
Isaria amoenerosea 4097
Brazil, Alagoas
Isaria farinosa 1957
Brazil, Goiás
Beauveria bassiana 2961
Isaria amoenerosea 741 744 2220
2958 2959 2960
Isaria fumosorosea 722 2216 2217
2219 2221
Purpureocillium lilacinum 723 2952
Pochonia chlamydosporia var.
chlamydosporia 2218

Coleoptera: Lampyridae
Russian Federation
Isaria coleopterorum 9509
Lecanicillium nr. *aranearum* 9460
USA, Vermont
Beauveria sp. 5186 5188
Cratomorphus diaphanus
Argentina
Beauveria bassiana 8464

Coleoptera: Languriidae
Costa Rica
Beauveria bassiana 3457

Coleoptera: Meloidae
Republic of Korea
Isaria amoenerosea 4849
Coleoptera: Melyridae
Malachius bipustulatus
Poland
Lecanicillium muscarium 1335

Coleoptera: Nitidulidae
Australia
Beauveria bassiana 325

Coleoptera: Pythidae
Pytho sp.
Canada, British Columbia
Beauveria bassiana 1854

Coleoptera: Rhizophagidae
Rhizophagus grandis
Belgium
Beauveria bassiana 1848

Coleoptera: Scarabaeidae
Australia
Metarhizium brunneum 472
Brazil, Distrito Federal
Metarhizium anisopliae sensu lato
3479
Ethiopia
Beauveria bassiana 6686
Kazakhstan
Isaria farinosa 6488 6489
Kyrgyz Republic
Verticillium sp. 6486
Location not specified
Beauveria brongniartii 4380 4381
Nepal
Metarhizium anisopliae sensu lato
7527 7529
Papua New Guinea
Metarhizium anisopliae sensu lato
2163
Metarhizium pingshaense 2162
Poland
Metarhizium majus 1858 1859
PR China
Metarhizium guizhouense 683
Republic of Korea
Beauveria bassiana 7264
Beauveria sungii 5689
Russian Federation
Clonostachys rosea 9491
Cordyceps sp. 7848
Engyodontium rectidentatum 7805
Syria
Purpureocillium lilacinum 6110
Turkey
Beauveria pseudobassiana 5669
USA, Vermont
Pochonia chlamydosporia 3314
Uzbekistan
Beauveria bassiana 6058
Adoryphorus sp.
Australia
Metarhizium frigidum 4124

Adoryphorus coultonii
Metarhizium anisopliae sensu lato
4142 4239
Australia
Beauveria amorphia 4149
Beauveria bassiana 4135 4136
Beauveria pseudobassiana 4274
4721
Metarhizium anisopliae sensu lato
4137 4138 4141 4346 4677 4716
4722 7815
Metarhizium flavoviride var.
flavoviride 4719 4720
Sterile mycelium 4243
Amphimallon majale
USA, New York
Metarhizium anisopliae sensu lato
9373
Amphimallon solstitiale
Denmark
Beauveria caledonica 8024
Turkey
Clonostachys rosea 11678 11682
11687
Fusarium sp. 11670 11671 11672
11673 11674 11675 11677 11679
11680 11684 11668 11669 11685
11686
Ancognatha scarabaeoides
Colombia
Beauveria bassiana 2249 2250
Metarhizium robertsii 797
Anomala costata
Japan
Beauveria amorphia 1676
Beauveria brongniartii 985
Anomala cuprea
Cordyceps brongniartii 7517
Japan
Beauveria bassiana 1683
Beauveria sp. 1682
Cordyceps brongniartii 7516
Anomala sp.
Myanmar
Metarhizium anisopliae sensu lato
8738 8739 8740 8741 8742 8743
Anoplognathus sp.
Australia
Beauveria bassiana 8763
Metarhizium anisopliae sensu lato
8764
Metarhizium majus 4566 4601 7505
Anoplognathus hirsutus
Australia
Metarhizium anisopliae sensu lato
4574 4779
Antitrogon consanguineus
Australia
Metarhizium anisopliae sensu lato
8761
Antitrogon mussoni
Australia
Metarhizium anisopliae sensu lato
7842 7865 7931
Metarhizium pingshaense 7417

<i>Antitrogon parvulus</i>	<i>Heteronychus arator</i>	<i>Lepidiota negatoria</i>
<i>Metarhizium anisopliae</i> sensu lato	Australia	Australia
8832 8893	<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> sensu lato
Australia	7932 7933 7934 7935 7936 8549	7832
<i>Metarhizium anisopliae</i> sensu lato	8550 8551 8552 8553 8554 8555	<i>Lepidiota noxia</i>
7496 7819 7839 7854 7864 8833	8556 8557 8576 8848 8849	Australia
8834	<i>Metarhizium robertsii</i> 7424	<i>Metarhizium anisopliae</i> sensu lato
<i>Metarhizium pingshaense</i> 7410	<i>Heteronyx</i> sp.	7504
<i>Aphodius fimetarius</i>	Australia	<i>Lepidiota picticollis</i>
Denmark	<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> sensu lato
<i>Verticillium lecanii</i> 4047	7843 7844 8586	8501
<i>Aphodius howitti</i>	<i>Metarhizium robertsii</i> 7449	<i>Lepidiota squamulata</i>
Location not specified	<i>Heteronyx piceus</i>	Australia
<i>Ophiocordyceps aphodii</i> 5498	Australia	<i>Metarhizium anisopliae</i> sensu lato
<i>Aphodius tasmaniae</i>	<i>Metarhizium anisopliae</i> sensu lato	7816
Australia	7451 8500 8558 8559 8582 8583	<i>Melolontha</i> sp.
<i>Metarhizium anisopliae</i> sensu lato	8592 8615 8616 8617 8618 8619	Germany
4125 4132 4133 4139 7845	8620 8621	<i>Beauveria brongniartii</i> 5355 5356
<i>Metarhizium brunneum</i> 346 4131	<i>Metarhizium anisopliae</i> sensu	5357 5358 5359 5360 5361 5362
Unidentified sp. 4140	stricto 7450	5363 5364
New Zealand	<i>Heteronyx rugosipennis</i>	<i>Melolontha melolontha</i>
<i>Beauveria bassiana</i> 8079	Australia	France
<i>Beauveria pseudobassiana</i> 3070	<i>Metarhizium anisopliae</i> sensu lato	<i>Beauveria brongniartii</i> 617 979
<i>Cochliotus melolonthoides</i>	8563 8564 8565 8566 8567 8577	<i>Metarhizium guizhouense</i> 977
Tanzania	8610	Switzerland
Unidentified / Hyphomycetes	<i>Holotrichia consanguinea</i>	<i>Beauveria brongniartii</i> 1067 1068
11666	India	1069 1070 1071 1072 1076 1077
<i>Costelytra zealandica</i>	<i>Metarhizium anisopliae</i> sensu	7528
Netherlands	stricto 10475	<i>Metarhizium anisopliae</i> sensu lato
<i>Beauveria brongniartii</i> 7761	<i>Holotrichia parallela</i>	7532
New Zealand	China	<i>Metarhizium brunneum</i> 1066
<i>Beauveria brongniartii</i> 3054	<i>Beauveria asiatica</i> 4384 4474	<i>Oryctes</i> sp.
<i>Beauveria pseudobassiana</i> 3055	<i>Beauveria brongniartii</i> 4385 4386	Papua New Guinea
<i>Metarhizium anisopliae</i> sensu lato	4388 4465 4466 4467 4468 4469	<i>Metarhizium anisopliae</i> sensu lato
3056 3057	4470 4471 4472 4473 4475 4476	2156 2165 2166 2167
<i>Metarhizium pingshaense</i> 7435	4477 4478	Philippines
<i>Cotinis nitida</i>	Mixed Culture sp. 4387	<i>Metarhizium majus</i> 1914
USA, Georgia	<i>Holotrichia serrata</i>	<i>Oryctes rhinoceros</i>
<i>Metarhizium anisopliae</i> sensu lato	India	France
11951	<i>Metarhizium anisopliae</i> sensu	<i>Metarhizium anisopliae</i> var. <i>majus</i>
<i>Cyclocephala</i> sp.	stricto 10472 10476	3145
Australia	<i>Lachnosterna bidentata</i>	<i>Metarhizium majus</i> 978
<i>Metarhizium anisopliae</i> sensu lato	Malaysia	Indonesia, Jawa Barat, Java
8837 8838	<i>Metarhizium flavoviride</i> 8737	<i>Metarhizium anisopliae</i> var. <i>majus</i>
<i>Dasygnathus dejeani</i>	<i>Lachnosterna morosa</i>	2151
Australia	Japan	Philippines
<i>Metarhizium anisopliae</i> sensu lato	<i>Beauveria sungii</i> 1685	<i>Metarhizium majus</i> 1946
8839	<i>Lepidiota consobrina</i>	Thailand
<i>Dermolepida albobirtum</i>	<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium pingshaense</i> 538
<i>Metarhizium anisopliae</i> sensu lato	8830 8831	<i>Pachmoda interrupta</i>
7492	Australia	Ethiopia
<i>Metarhizium</i> sp. 7493	<i>Metarhizium anisopliae</i> var. <i>lepid-</i>	<i>Aspergillus flavus</i> 6454
Australia	<i>iotae</i> 8732	<i>Beauveria bassiana</i> 6669 6676 6681
<i>Metarhizium anisopliae</i> var. <i>lepid-</i>	<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium anisopliae</i> sensu lato
<i>iotae</i> 7453	7411 7827 7828 7846 8845 8850	6670 6671 6672 6673 6674 6675
<i>Metarhizium anisopliae</i> sensu lato	<i>Metarhizium lepidiotae</i> 7412	6677 6678 6679 6680 6682 6683
7452 8744 8754 8755 10469	<i>Lepidiota frenchi</i>	6684 6685
<i>Metarhizium lepidiotae</i> 7488	Australia	<i>Papuana</i> sp.
<i>Diloboderus abderus</i>	<i>Metarhizium anisopliae</i> sensu lato	Papua New Guinea
Argentina	7829 7830 7831 8733	<i>Metarhizium anisopliae</i> sensu lato
<i>Metarhizium brunneum</i> 6120	<i>Lepidiota gibbifrons</i>	8748
<i>Heptophylla picea</i>	Australia	<i>Papuana woodlarkiana</i>
Japan	<i>Metarhizium anisopliae</i> sensu lato	Papua New Guinea
<i>Paecilomyces canadensis</i> 984	7824 7825 7826	<i>Metarhizium guizhouense</i> 4604

<i>Phyllopertha horticola</i> Norway <i>Metarhizium anisopliae</i> sensu lato 6901 <i>Metarhizium brunneum</i> 6477	<i>Rhopaea magnicornis</i> Australia <i>Beauveria bassiana</i> 4130 7813 8853 8854 <i>Isaria fumosorosea</i> 8892 <i>Metarhizium anisopliae</i> sensu lato 8492 8765 8766 8767 8829 8844 <i>Metarhizium</i> sp. 7495 8851 8852 8855 8856 8857	<i>Isaria farinosa</i> 9269 9270 9275 9276 9277 9278 <i>Lecanicillium muscarium</i> 9267 9268 <i>Dendroctonus ponderosae</i> Canada, British Columbia <i>Beauveria bassiana</i> 1849 1853 <i>Dendroctonus rufipennis</i> Canada, British Columbia <i>Evlachovaea</i> sp. 1017 <i>Dryocoetes confusus</i> Canada <i>Beauveria bassiana</i> 9184 Canada, British Columbia <i>Beauveria bassiana</i> 1852 <i>Hypothenemus hampei</i> Benin <i>Fusarium</i> sp. 5875 5878 <i>Purpureocillium lilacinum</i> 5876 5877 5880 5882 6188 6190 Brazil, São Paulo <i>Beauveria bassiana</i> 1480 Cameroon <i>Beauveria bassiana</i> 6526 6527 6528 6529 6530 6531 6532 Colombia <i>Acremonium alternatum</i> 7282 <i>Fusarium</i> sp. 6602 Indonesia, Sulawesi <i>Fusarium</i> sp. 7063 Ivory Coast <i>Beauveria bassiana</i> 5436 5437 5438 5439 5440 5441 5442 5459 5460 5477 5482 5483 5484 5485 5486 5487 <i>Fusarium</i> sp. 5461 <i>Isaria fumosorosea</i> 6730 Kenya <i>Beauveria bassiana</i> 2685 2686 2687 Mexico <i>Beauveria bassiana</i> 2693 3818 3819 <i>Isaria fumosorosea</i> 7284 Nicaragua <i>Beauveria bassiana</i> 3440 3443 3445 3448 3453 Sri Lanka <i>Beauveria bassiana</i> 7758 Togo <i>Beauveria bassiana</i> 2688 2689 2690 2691 2692 5443 5444 5445 5446 5447 5448 5449 5450 5451 5452 5453 5454 5455 5456 5457 5458 5478 5479 5480 5481 5488 5489 5490 Uganda <i>Fusarium</i> sp. 5879 USA, Hawaii <i>Beauveria bassiana</i> 10471 USA, Texas <i>Candida</i> sp. 5729 <i>Ips</i> sp. Canada, British Columbia <i>Beauveria pseudobassiana</i> 1855 USA, New Hampshire <i>Lecanicillium muscarium</i> 11803
<i>Phyllophaga</i> sp. Mexico <i>Beauveria bassiana</i> 5740 5741 5742 5743 5744 5745	<i>Rhopaea verreauxii</i> Australia <i>Metarhizium anisopliae</i> sensu lato 8495 <i>Scapanes australis</i> Papua New Guinea <i>Metarhizium pingshaense</i> 3604 <i>Sericesthis micans</i> Australia <i>Metarhizium anisopliae</i> sensu lato 4568 4777 4778 <i>Sericesthis nigrolineata</i> Australia <i>Beauveria bassiana</i> 7853 <i>Metarhizium anisopliae</i> sensu lato 4780 7814 7863 <i>Sericesthis</i> sp. Australia <i>Metarhizium anisopliae</i> sensu lato 4134 4236 <i>Strigoderma arboricola</i> USA, Michigan <i>Metarhizium robertsii</i> 1968 <i>Xyloryctes jamaicensis</i> India <i>Beauveria</i> sp. 2412 Western Samoa <i>Metarhizium anisopliae</i> var. <i>majus</i> 297 298	
<i>Phyllophaga ?anzia</i> Canada <i>Metarhizium anisopliae</i> sensu lato 2135 2136 2137 2138 2139 <i>Metarhizium robertsii</i> 2134		
<i>Phyllophaga anxia</i> Canada <i>Metarhizium anisopliae</i> sensu lato 8499		
<i>Phyllophaga cuyabana</i> Brazil, Paraná <i>Metarhizium anisopliae</i> sensu stricto 3924		
<i>Phyllophaga menetriesi</i> Colombia <i>Evlachovaea</i> sp. 7551		
<i>Popillia japonica</i> Azores <i>Beauveria amorphia</i> 4990 <i>Beauveria brongniartii</i> 4992 4993 4994 4995		
Japan <i>Beauveria brongniartii</i> 4389 4458 <i>Beauveria</i> sp. 4390 4391 4392 <i>Metarhizium robertsii</i> 1046 Unidentified / <i>Hyphomycetes</i> 5223 5224 5225 5226 5227		
Location not specified <i>Beauveria bassiana</i> 3716 3717 <i>Cordyceps</i> sp. 3718 3714 3719		
Portugal <i>Beauveria bassiana</i> 5148 5150 <i>Isaria fumosorosea</i> 2679 <i>Metarhizium anisopliae</i> sensu lato 3329 4907 4908 <i>Metarhizium brunneum</i> 3864 <i>Metarhizium robertsii</i> 5149 Unidentified sp. 3841	Coleoptera: Scarabaeidae: Aphodi- inae USA, New York <i>Tolypocladium inflatum</i> 4877 4878 4879 4880 4881 4882 4883 4884 4885 4886 4887 4888 4889 4890 4891 4892 4893 4894 4895 4896 4897 4898	
USA, Connecticut <i>Metarhizium anisopliae</i> sensu lato 3713 3720 <i>Metarhizium robertsii</i> 3721 Unidentified sp. 3722	Coleoptera: Scarabaeidae: Melolon- thinae <i>Antitrogus rugulosus</i> Australia <i>Paraisaria dubia</i> 5764	
USA, New York <i>Metarhizium anisopliae</i> sensu lato 1280 2548 3330 3331 3332 3333 3334 3335 3336 3337 3338 3339 3340 9372 <i>Metarhizium robertsii</i> 1298 1878 <i>Purpureocillium lilacinum</i> 9371	Coleoptera: Scolytidae Switzerland <i>Beauveria bassiana</i> 1566 <i>Beauveria caledonica</i> 1567 USA, Hawaii <i>Beauveria bassiana</i> 3040 <i>Dendroctonus micans</i> Denmark <i>Lecanicillium muscarium</i> 4036 Turkey <i>Beauveria bassiana</i> (?) 9271 <i>Beauveria</i> sp. 9272 9273 9274	
<i>Rhizotrogus majalis</i> USA, New York <i>Metarhizium robertsii</i> 2547 3108 3211 4123 Unidentified / <i>Hyphomycetes</i> 2999		

USA, Vermont	Uzbekistan
<i>Lecanicillium</i> nr. <i>aranearum</i> 11799	<i>Beauveria bassiana</i> 6057 6064 6077
<i>Ips stenographus</i>	6078 6096 6113
Norway	<i>Alphitobius diaperinus</i>
<i>Beauveria bassiana</i> 6900	<i>Beauveria bassiana</i> 5836 5838 5839
<i>Ips typographus</i>	5840 5843
Denmark	<i>Isaria fumosorosea</i> 5844 5845 5846
<i>Beauveria brongniartii</i> 4024	5847
Switzerland	<i>Metarhizium anisopliae</i> sensu lato
<i>Beauveria bassiana</i> 7525 7526	5837 5841 5842 5848 5850
<i>Tomicus minor</i>	<i>Verticillium lecanii</i> 5849
France	Denmark
<i>Beauveria bassiana</i> 5071	<i>Isaria farinosa</i> 5858
<i>Beauveria pseudobassiana</i> 4933	USA, West Virginia
5070	<i>Beauveria bassiana</i> 7941
<i>Tomicus pimperda</i>	<i>Pterohelaeus darlingensis</i>
France	Australia
<i>Beauveria</i> sp. 4909 4910 4911 4912	<i>Beauveria bassiana</i> 8065
4913 4914 4915 4916 4917 4918	<i>Tenebrio molitor</i>
Coleoptera: Scolytidae (Tribe Ipini)	<i>Aspergillus flavus</i> 9381
PR China	Denmark
<i>Beauveria pseudobassiana</i> 6229	<i>Beauveria bassiana</i> 8038
Coleoptera: Silphidae	Finland
Russian Federation	<i>Beauveria bassiana</i> 5623
<i>Isaria farinosa</i> 9511	<i>Isaria fumosorosea</i> 5627
<i>Lecanicillium</i> sp. 9459	<i>Metarhizium brunneum</i> 5626
Coleoptera: Staphylinidae	Mexico
Australia	<i>Metarhizium anisopliae</i> sensu lato
<i>Metarhizium anisopliae</i> sensu lato	11945 11946 11947
8734	Republic of China
Denmark	<i>Isaria farinosa</i> 8917
<i>Beauveria bassiana</i> 4055	<i>Lecanicillium muscarium</i> 8923
USA, Nebraska	<i>Metarhizium anisopliae</i> sensu lato
<i>Beauveria bassiana</i> 3112	8775 8776 8777 8778 8779 8780
USA, New York	8781 8782 8783 8784 8785 8786
<i>Paecilomyces carneus</i> 11836	8787 8788 8789 8790 8791 8792
<i>Anotylus rugosus</i>	8793 8794 8795 8796 8797 8798
Denmark	8799 8858 8859 8860 8861 8862
<i>Beauveria bassiana</i> 4051 4056	8863 8864 8865 8866 8867 8868
<i>Anotylus</i> sp.	8869 8870 8871 8872 8873 8874
Denmark	8875 8876 8877 8878 8879 8880
<i>Beauveria bassiana</i> 4046	8881 8882 8883 8884 8885 8886
<i>Gyrophypnus angustatus</i>	8887 8894 8895 8896 8897 8898
Denmark	8899 8900 8901 8902 8903 8904
<i>Beauveria bassiana</i> 4054	8905 8906 8907 8908 8909 8910
<i>Staphylinus olens</i>	8911 8912 8913 8914 8915 8916
Denmark	8941 8942 8943 8944 8945 8946
<i>Isaria farinosa</i> 4040	8947 8948 8949 8950 8951 8952
<i>Tachyporus hypnorum</i>	8953 8954 8955 9235 9236
Denmark	<i>Purpureocillium lilacinum</i> 8918
<i>Lecanicillium longisporum</i> 4050	8919 8920 8921 8922
<i>Tachyporus</i> sp.	<i>Scopulariopsis</i> sp. 11652
Denmark	<i>Tribolium castaneum</i>
<i>Beauveria bassiana</i> 4028	Finland
Coleoptera: Tenebrionidae	<i>Beauveria pseudobassiana</i> 5622
Brazil, Ceará	<i>Metarhizium anisopliae</i> sensu lato
<i>Beauveria bassiana</i> 757 783 787	5624
Kazakhstan	<i>Metarhizium brunneum</i> 5625
<i>Beauveria bassiana</i> 6478 6483	USA, Washington
<i>Verticillium lecanii</i> 6487	<i>Metarhizium anisopliae</i> sensu lato
Republic of Korea	3389
<i>Isaria farinosa</i> 5699	<i>Metarhizium robertsii</i> 3388
USA, Vermont	
<i>Isaria farinosa</i> 11827	

Geographical Origin

Argentina
Canada

Argentina

Buenos Aires

Beauveria bassiana 5501 7202 7466
7471 8461 8520 8521 8522 8523 8524
8525 8526 8530
Beauveria sp. 7463
Metarhizium brunneum 6120

Corrientes

Beauveria bassiana 8464

Tucumán

Beauveria bassiana 2010 2509 2515
7470 8372 8373 8462 8463

Australia

Metarhizium anisopliae sensu lato
4125

Metarhizium brunneum 4228

Australian Capital Territory

Beauveria bassiana 7853
Metarhizium anisopliae sensu lato
7863 8837 8838

New South Wales

Beauveria bassiana 4130 7813 8763
8853 8854
Isaria fumosorosea 8892

Metarhizium anisopliae sensu lato
4568 4574 4777 4778 4779 4780 7498
7499 7500 7814 8492 8495 8764 8765
8766 8767 8829 8844

Metarhizium brunneum 472

Metarhizium majus 4566 4601

Metarhizium sp. 7495 8851 8852 8855
8856 8857

Northern Territory

Metarhizium anisopliae sensu lato
8745 8746 8747

Queensland

Beauveria bassiana 325 8065
Metarhizium anisopliae var. *lepidiotae*
7453 8732

Metarhizium anisopliae sensu lato
7411 7451 7452 7496 7504 7816 7819
7824 7825 7826 7827 7828 7829 7830
7831 7832 7839 7842 7843 7844 7846
7854 7864 7865 7931 8500 8558 8559
8563 8564 8565 8566 8567 8577 8582
8583 8586 8592 8610 8615 8616 8617
8618 8619 8620 8621 8733 8734 8744
8754 8755 8761 8762 8828 8833 8834
8839 8845 8847 8850 10469

Metarhizium anisopliae sensu stricto
7450

Metarhizium lepidiotae 7412 7488

Metarhizium majus 7505

Metarhizium pingshaense 7410 7417

Metarhizium robertsii 7449

Paraisaria dubia 5764

South Australia

Metarhizium anisopliae sensu lato
4132 4133 4139 7845

Metarhizium brunneum 346 4131

Tasmania

Beauveria amorphia 4149
Beauveria bassiana 4135 4136 8835
8836
Beauveria pseudobassiana 4274 4721

Isaria fumosorosea 8840

Metarhizium anisopliae sensu lato
4134 4137 4138 4141 4236 4346 4677
4716 4722

Metarhizium flavoviride var. *flavoviride* ■
4719 4720

Sterile mycelium 4243

Unidentified sp. 4140

Victoria

Beauveria bassiana 8756 8757

Metarhizium anisopliae sensu lato
7815 8543 8544 8545 8546 8547 8548
Metarhizium frigidum 4124

Western Australia

Metarhizium anisopliae sensu lato
7932 7933 7934 7935 7936 8549 8550
8551 8552 8553 8554 8555 8556 8557
8576 8848 8849
Metarhizium robertsii 7424

Azores

Beauveria amorphia 4990
Beauveria brongniartii 4992 4993
4994 4995

Belarus

Isaria sp. 9519
Purpureocillium lilacinum 9524
Polycephalomyces sp. 9497
Lecanicillium fungicola 9483

Belgium

Beauveria bassiana 1848

Benin

Fusarium sp. 5875 5878
Purpureocillium lilacinum 5876 5877
5880 5882 6188 6190

Brazil

Beauveria bassiana 1833 3219
Beauveria sp. 1835
Isaria amoenerosea 4097

Alagoas

Beauveria bassiana 1954 1956
Isaria farinosa 1957

Amazonas

Beauveria bassiana 731 732 756 2512
Isaria fumosorosea 2956

Bahia

Beauveria bassiana 1961 2075
Metarhizium anisopliae sensu lato
1958

Ceará

Beauveria bassiana 753 757 783 784
785 786 787 788 804 805 4001

Distrito Federal

Metarhizium anisopliae sensu lato
3479

Espírito Santo

Beauveria bassiana 1483

Goiás

Beauveria bassiana 733 734 735 736
738 739 752 754 758 809 928 930 931
934 956 1476 1971 2079 2625 2626
2938 2942 2961
Isaria amoenerosea 741 744 2220 2958
2959 2960

Isaria fumosorosea 722 2216 2217
2219 2221

Metarhizium anisopliae sensu lato
725 760 808 929 932 939 1885 2076
2077 2513 2635 2941

Metarhizium robertsii 724 2514

Purpureocillium lilacinum 723 2952

Penicillium sp. 2950

Pochonia chlamydosporia var.
chlamydosporia 2218

Mato Grosso

Beauveria bassiana 937 938 941 942
943 946 947 948 949 950 951 952
953 982

Metarhizium anisopliae sensu lato
954

Pará

Beauveria caledonica 2251
Metarhizium anisopliae sensu lato
1901

Paraná

Beauveria bassiana 958 1060 1061
1450 1453 1454 1455 1458 1461 1462
1463 1466 1469 2511 2520 2642
Metarhizium anisopliae sensu lato
1056 1989
Metarhizium anisopliae sensu stricto
3924

Rio de Janeiro

Purpureocillium lilacinum 1951

Rio Grande do Sul

Beauveria bassiana 1456 1459 1460
1464 1465 1475 3098
Unidentified sp. 3471 3478

Santa Catarina

Beauveria bassiana 1467 1470 1471
1472 1473

São Paulo

Beauveria bassiana 1480 1966 2559
2638 2639 2945 2946

Cameroon

Centre-Sud

Beauveria bassiana 6526 6527 6528
6529 6530 6531 6532

Canada

Beauveria bassiana 9184

Metarhizium anisopliae sensu lato

2135 2136 2137 2138 2139 8499

Metarhizium robertsii 2134

British Columbia

Beauveria bassiana 1849 1852 1853
1854 7972 7978

Beauveria pseudobassiana 1855

Evlachovaea sp. 1017

Lecanicillium muscarium 8048 8049
8050 8051 8052 8053 8054

Lecanicillium pissodis 8055 8056 8057
Tolypocladium cylindrosporum 7456

Ontario

Beauveria bassiana 5807 10393 10394
10395 10396 10397 10398 10399
10400 10401 10402 10403 10404
10405 10406 10407 10408 10409
10410 10411 10412 10413 10414
10415 10416 10417 10418 10419

10420 10421 10422 10423 10424
10425 10426 10427 10428 10429
10430 10431 10432 10433 10434
10435 10436 10437 10438 10439
10440 10441 10442 10443 10444
10445 10446 10447 10448 10449
10450 10451 10452 10453 10454
10455 10456 10457 10458 10459
10460 10461 10462 10463 10464
10465 10466 10467 10468
Québec
Beauveria bassiana 2983 2984 2985
2986 2987 2988 2989 2990 2991
Metarhizium robertsii 2981

China
Beauveria asiatica 4384 4474
Beauveria brongniartii 4385 4386
4388 4465 4466 4467 4468 4469
4470 4471 4472 4473 4475 4476 4477
4478
Mixed Culture sp. 4387

Colombia
Beauveria bassiana 842
Caldas
Acremonium alternatum 7282
Fusarium sp. 6602
Cauca
Evlachovaea sp. 7551
Cundinamarca
Metarhizium robertsii 797
Nariño
Beauveria bassiana 2248 2249 2250
Isaria farinosa 799
Valle del Cauca
Beauveria bassiana 721

Commonwealth of Independent States
Beauveria bassiana 2695

Costa Rica
Cartago
Beauveria bassiana 3437 3438 3439
3441 3442 3444 3446 3447 3450 3451
3452 3455 3457

Czech Republic
Metarhizium flavoviride 2133

Denmark
Batkoa sp. 5810
Beauveria bassiana 4019
Beauveria brongniartii 4024
Isaria farinosa 4043 4044
Lecanicillium muscarium 4036
Verticillium lecanii 4022

Århus
Metarhizium brunneum 4020

Funen
Beauveria bassiana 5857

Fyn
Beauveria bassiana 4051 4055 4056

Jutland
Beauveria bassiana 4021 4031
Isaria farinosa 5858
Verticillium lecanii 5856

Lammfjorden
Erynia sp. 2664
Storstrøm
Beauveria bassiana 4015
Vestsjælland
Zoophthora anglica 2505
Zealand
Beauveria bassiana 4013 4018 4023
4034 4038 4041 4046 4049 4052 4054
8037 8038
Beauveria caledonica 8024
Beauveria sp. 4027
Fusarium sp. 4011
Isaria farinosa 4039 4045
Lecanicillium longisporum 4050
Sterile mycelium 4009
Unidentified sp. 4037
Verticillium lecanii 4047 4048
Zeeland
Beauveria bassiana 4016 4028 4032
Erynia sp. 2525 2536 2537 2538 2539
2553 2663
Isaria farinosa 4029 4040
Lecanicillium muscarium 4033

Ecuador
Beauveria pseudobassiana 2557

Ethiopia
Gojam
Beauveria bassiana 6693
Northern Shoa
Aspergillus flavus 6454
Beauveria bassiana 6669 6676 6681
Metarhizium anisopliae sensu lato
6670 6671 6672 6673 6674 6675 6677
6678 6679 6680 6682 6683 6684 6685

Sidamo
Beauveria bassiana 6689
Tigray
Beauveria bassiana 6695 6696 6697
Welo
Beauveria bassiana 6692
Western Shoa
Beauveria bassiana 6686

Finland
Beauveria pseudobassiana 5622
Isaria fumosorosea 5627
Hämeen Lääni
Metarhizium brunneum 5626
Uudenmaan Lääni
Metarhizium anisopliae sensu lato
5624
Vaasan Lääni
Beauveria bassiana 5623
Metarhizium brunneum 5625

France
Aphanocladium album 1329
Beauveria bassiana 149 150 384 1157
1159 1160 1165 1167 1168 1169 1170
1182 1186 1306 1389 1515 1982
Beauveria brongniartii 617 979
Lecanicillium muscarium 1328 1401
1402 1403
Metarhizium anisopliae var. *majus*
3145

Metarhizium guizhouense 977
Metarhizium majus 978
Ardenne
Beauveria bassiana 1647
Charente
Scopulariopsis sp. 2327
Charente-Maritime
Beauveria bassiana 1975 1980
de Gourgas
Beauveria pseudobassiana 4933
Isaria farinosa 5080
Drôme
Beauveria bassiana 1398 1399
Eure
Beauveria bassiana 1073 1074 1075
1158 1193
Eure-et-Loir
Beauveria bassiana 1192
Finistere
Beauveria bassiana 815
Beauveria pseudobassiana 813 814
Metarhizium anisopliae sensu lato
818
Metarhizium brunneum 817
Haute-Savoie
Acremonium furcatum 1372
Hérault
Beauveria bassiana 816 1185 5071
5072
Beauveria pseudobassiana 5070
Isaria farinosa 5073 5074 5075
Metarhizium guizhouense 819
La Valette
Unidentified sp. 3980
Loire
Unidentified sp. 1634
Loiret
Beauveria bassiana 1191
Maine-et-Loire
Metarhizium brunneum 820
Morbihan
Metarhizium flavoviride 2024
Metarhizium flavoviride var. *flavoviride* ■
1184
Réunion
Metarhizium anisopliae sensu lato
3148
Vaucluse
Beauveria bassiana 1509 1510 1511
1518 1519
Beauveria sp. 4909 4910 4911 4912
4913 4914 4915 4916 4917 4918
Isaria farinosa 1507 1508
Isaria fumosorosea 1506
Lecanicillium lecanii 1505
Vienne
Beauveria bassiana 1491
Vosges
Beauveria sp. 1327
Yvelines
Beauveria bassiana 1156 1161 1162
1194 2463

Germany

Metarhizium brunneum 5198
Metarhizium robertsii 1910
 Hesse
Beauveria bassiana 340
Beauveria brongniartii 5355 5356
 5357 5358 5359 5360 5361 5362
 5363 5364
 Rheinhessen-Pfalz
Evlachovaea sp. 7403

Ghana

Unidentified / Hyphomycetes 8641

Hungary

Csongrád
Beauveria bassiana 6884 6885

India

Beauveria brongniartii 2660
Beauveria sp. 2412
Metarhizium guizhouense 3603
Metarhizium pingshaense 2231 3210
 Tamil Nadu
Beauveria sp. 8250
Metarhizium anisopliae sensu stricto
 10472 10475 10476

Indonesia

Metarhizium brunneum 2224
 Jawa Barat, Java
Metarhizium anisopliae var. *majus*
 2151
 Sulawesi
Fusarium sp. 7063
 Sulawesi Selatan, Celebes
Aspergillus parasiticus 2173
Metarhizium brunneum 2210
 Unidentified / Hyphomycetes 2225

Iran

Sistan Va Baluchestan
Beauveria bassiana 6903

Israel

Conidiobolus osmodes 79
Conidiobolus sp. 80 81
Zoophthora phytonomi 113 191 192

Italy

Beauveria bassiana 1559 1560 1561
 1562 1563
 Sicily
Beauveria bassiana 1106

Ivory Coast

Beauveria bassiana 5436 5437 5438
 5439 5440 5441 5442 5459 5460 5477
 5482 5483 5484 5485 5486 5487
Fusarium sp. 5461
Isaria fumosorosea 6730

Japan

Beauveria brongniartii 6235
Harposporium janus 5601
 Aichi Prefecture
Beauveria bassiana 1041
 Aomori Prefecture
Mixed Culture sp. 1043
 Hokkaido
Beauveria brongniartii 4389 4458
Beauveria sp. 4390 4391 4392
 Unidentified / Hyphomycetes 5223
 5224 5225 5226 5227
 Ibaraki Prefecture
Beauveria brongniartii 6412
Beauveria sungii 1685
 Kumamoto Prefecture
Beauveria bassiana 1679
 Nagano Prefecture
Beauveria amorphia 1676
Beauveria bassiana 1683
Beauveria sp. 1682
Cordyceps brongniartii 7516
 Nagasaki Prefecture
Beauveria bassiana 1678
 Tokyo Prefecture
Beauveria amorphia 1680
Beauveria brongniartii 985
Beauveria sp. 1681
Metarhizium robertsii 1046
Paecilomyces canadensis 984
Tilachlidium sp. 2415

Kazakhstan

Beauveria bassiana 6478 6483
Isaria farinosa 6488 6489 6491
Verticillium lecanii 6487
Verticillium sp. 6484 6501

Kenya

Beauveria bassiana 2685 2686 2687

Kyrgyz Republic

Beauveria bassiana 6499
Verticillium sp. 6486

Malawi

Southern
Beauveria malawiensis 7760

Malaysia

Beauveria sp. 547
Metarhizium flavoviride 8737

Mexico

Beauveria bassiana 319 2693 3287
 3309 3311 9297 9298 9299 9300 9301
 9302
Metarhizium anisopliae sensu lato
 3305 3306 3308
 Chiapas
Isaria fumosorosea 7284
 Colima
Beauveria bassiana 3310 5740
 Durango
Lecanicillium sp. 2(?) 2832
 Guanajuato State
 Unidentified sp. 3821

Jalisco

Beauveria bassiana 2330 5741 5742
 5743 5744 5745

Mexico

Metarhizium robertsii 2469
 Nuevo León
Metarhizium anisopliae sensu lato
 11945
 Oaxaca
Beauveria bassiana 3818 3819
 Tabasco
Beauveria bassiana(?) 6890 6891
 Veracruz
Metarhizium anisopliae sensu lato
 11946 11947

Morocco

Beauveria bassiana 1153 1154 1155
 1163 1164 1171 1172 1173 1174 1175
 1176 1177 1178 1179 1180 1181 1183
 1188 1189 1190 1309 1311 1312 1313
 1811 1815 1816 1817 1818 1819 1820
 1821
Fusarium sp. 1310

Myanmar

Metarhizium anisopliae sensu lato
 8738 8739 8740 8741 8742 8743

Nepal

Cordyceps scarabaeicola 7277 7278
 Parbat District
Metarhizium anisopliae sensu lato
 7527 7529

Netherlands

Beauveria brongniartii 7761
Hirsutella fusiformis 5474

New Zealand

Metarhizium anisopliae sensu stricto
 2518
 South Island
Beauveria bassiana 8077 8078 8079
Beauveria brongniartii 3054
Beauveria pseudobassiana 3055 3063
 3065 3066 3070
Metarhizium anisopliae sensu lato
 3056 3057
Metarhizium pingshaense 7435

Nicaragua

Beauveria bassiana 3440 3443 3445
 3448 3453

Norway

Akershus
Beauveria bassiana 6900 11660
 Østfold
Metarhizium anisopliae sensu lato
 6901
Metarhizium brunneum 6477

Papua New Guinea

Morobe Province
Metarhizium guizhouense 4604

Papua New Guinea

Metarhizium anisopliae sensu lato
2156 2163 2165 2166 2167 8748
Metarhizium pingshaense 2162 3604
Scopulariopsis sp. 2169
Synnematium jonesii 5664

Peru

Beauveria bassiana 5982
Andes Mountains
Beauveria amorpha 1969
Junín
Beauveria bassiana 5983
La Libertad
Beauveria bassiana 5984

Philippines

Benguet
Beauveria bassiana 3197 3198 3199
Manila
Beauveria brongniartii 1431
Isaria farinosa 2355
Quezon
Metarhizium majus 1914 1946

Poland

Beauveria bassiana 301
Beauveria pseudobassiana 157
Lecanicillium muscarium 1335
Metarhizium majus 1858 1859
Polycephalomycetes formosus 1424

Portugal

Azores
Beauveria bassiana 5148 5150
Isaria fumosorosea 2679
Metarhizium anisopliae sensu lato
3329 4907 4908
Metarhizium brunneum 3864
Metarhizium robertsii 5149
Unidentified sp. 3841

PR China

Beauveria bassiana 6387
Anhui
Beauveria amorpha(?) 6827
Beauveria bassiana 6390 8414
Isaria catenianulata 6241 6243
Isaria cateniobliqua 6244
Metarhizium pingshaense 8420
Scopulariopsis sp. 8421
Gansu Province
Beauveria bassiana 7155 7164
Guizhou Province
Beauveria pseudobassiana 6229
Isaria fumosorosea 9602
Hebei Province
Beauveria bassiana 7156 7157 7166
7167 7168 7169 7170 7171 7172 7173
7174 7175 7176 7177 7178
Kwon Tung
Metarhizium guizhouense 683
Shaanxi Province
Beauveria lii 11741
Yunnan Province
Mixed Culture sp. 11718

Republic of China

Taiwan
Isaria farinosa 8917
Lecanicillium muscarium 8923
Metarhizium anisopliae sensu lato
8775 8776 8777 8778 8779 8780 8781
8782 8783 8784 8785 8786 8787 8788
8789 8790 8791 8792 8793 8794 8795
8796 8797 8798 8799 8858 8859 8860
8861 8862 8863 8864 8865 8866 8867
8868 8869 8870 8871 8872 8873 8874
8875 8876 8877 8878 8879 8880 8881
8882 8883 8884 8885 8886 8887 8894
8895 8896 8897 8898 8899 8900 8901
8902 8903 8904 8905 8906 8907 8908
8909 8910 8911 8912 8913 8914 8915
8916 8941 8942 8943 8944 8945 8946
8947 8948 8949 8950 8951 8952 8953
8954 8955 9235 9236
Purpureocillium lilacinum 8918 8919
8920 8921 8922
Scopulariopsis sp. 11652

Republic of Georgia

Autonomous Republic of Adjara
Evlachovaea kintrischica 7218 8058

Republic of Kazakhstan

Beauveria bassiana 10350

Republic of Korea

Beauveria bassiana 2040
Beauveria sp. 4853
Cordyceps sp. 4852
Chungnam Province
Beauveria sp. 5697
Gyeongbuk Province
Beauveria bassiana 7275
Gyeonggi Province
Beauveria bassiana 7266
Isaria farinosa 5699
Unidentified / Hyphomycetes 5695
Jeju Province
Beauveria bassiana 7241 7271 7272
Jheonnam
Beauveria bassiana 7270
Kangwon-do
Beauveria bassiana 6721 7244 7247
7251 7261 7264
Beauveria brongniartii 7268
Beauveria sungii 5689 7279 7280
Isaria amoenerosea 4849
Isaria farinosa 7276
Isaria fumosorosea 5694
Lecanicillium muscarium 7248

Russian Federation

Karachayevo-Cherkessiya Republ
Beauveria brongniartii 9452
Isaria farinosa 9511
Lecanicillium sp. 9459
Krasnodarsky Krai
Beauveria bassiana 9444
Metarhizium sp. 7643
Moscow Region
Beauveria bassiana 9441 9449
Isaria coleopterorum 9509
Lecanicillium nr. *aranearum* 9460

Primorsky Krai

Beauveria bassiana 7581 9442
Beauveria sp. 7580 7591
Clonostachys rosea 9491
Cordyceps sp. 7848
Engyodontium rectidentatum 7805
Isaria fumosorosea 7716
Lecanicillium sp. 7635 7636
Polycephalomycetes sp. 9496
Tolypocladium cylindrosporum 7812
Sakhalin Region
Sporothrix insectorum 9502

Solomon Islands

Metarhizium anisopliae sensu lato
4290 4333 4334 4335 4336 4337 4338
4339 4340 4341 4557 4558 4572 4582
Metarhizium pingshaense 4342 4610

Sri Lanka

Beauveria bassiana 7758

Switzerland

Beauveria brongniartii 1069
Beauveria varroae 2694
Conidiobolus coronatus 1572 1573
1574 1575
Metarhizium anisopliae sensu lato
1377
Metarhizium brunneum 1066
Pandora blunckii 915 917 920
Zoophthora anglica 396

Bern

Beauveria brongniartii 7528

Graubünden

Metarhizium anisopliae sensu lato
7524

Lucerne

Beauveria bassiana 7525 7526

Schaffhausen

Beauveria bassiana 1566
Beauveria caledonica 1567

Thurgau

Beauveria brongniartii 1067 1068
1070 1071 1072 1076 1077

Uri

Metarhizium anisopliae sensu lato
7532

Zurich

Pandora blunckii 1715 1716 1717 1718

Syria

Purpureocillium lilacinum 6110

Tanzania

Unidentified / Hyphomycetes 11666

Thailand

Metarhizium pingshaense 538

Togo

Beauveria bassiana 2688 2689 2690
2691 2692 5443 5444 5445 5446 5447
5448 5449 5450 5451 5452 5453 5454
5455 5456 5457 5458 5478 5479 5480
5481 5488 5489 5490

Geographical Origin

Turkey

Beauveria bassiana 10347
Gaziantep
Beauveria bassiana 5670
Beauveria pseudobassiana 5669 5678
Beauveria sp. 5833
Isaria farinosa 5754 5834
Gümüşhane
Beauveria bassiana 8668
Hatay
Beauveria pseudobassiana 5668
Unidentified / Hyphomycetes 5677
Kahraman Maras
Beauveria sp. 5831
Trabzon
Beauveria bassiana(?) 9271
Beauveria sp. 9272
Clonostachys rosea 11678 11682 11687
Fusarium sp. 9273 9274 11670 11671
11672 11673 11674 11675 11677
11679 11680 11684
Isaria farinosa 9269 9270 9275 9276
9277 9278
Lecanicillium muscarium 9267 9268
Metarhizium sp. 11668 11669 11685
11686

Uganda

Fusarium sp. 5879

Ukraine

Autonomous Republic of Crimea
Simplicillium lamellicola 9479
Kherson Oblast
Beauveria sp. 7595
Isaria farinosa 9516
Isaria fumosorosea 9521

United Kingdom

Beauveria bassiana 6552 6559 6560
7764 7769 7773 7774
Metarhizium anisopliae sensu lato
6549 6551
Metarhizium anisopliae sensu stricto
6546
Verticillium lecanii 6545
England
Beauveria bassiana 7763
Zoophthora anglica 1739

USA

Metarhizium anisopliae sensu lato
1903
Metarhizium robertsii 3608
Arkansas
Beauveria bassiana 7404
Sorospora uvella 1123
California
Metarhizium robertsii 1897
Connecticut
Beauveria bassiana 6393
Metarhizium anisopliae sensu lato
3713 3720 6388
Metarhizium brunneum 6392 7234
8415 8416 8417 8418 8419
Metarhizium robertsii 3721
Unidentified sp. 3722

Delaware

Zoophthora phytonomi 2188

Florida

Aspergillus nidulans(?) 6515
Beauveria bassiana 412 413 416 5979
5981 5986
Cladosporium sphaerospermum 6516
Isaria javanica 322
Metarhizium pingshaense 5197
Purpureocillium lilacinum 410
Stilbella buquetii 2915
Tilachlidium sp. 10132

Georgia

Beauveria bassiana 336 337 2676
Fusarium sp. 2568 2569
Metarhizium anisopliae sensu lato
11951

Hawaii

Beauveria bassiana 3040 8705 10471
Metarhizium anisopliae sensu lato
9217 9218

Illinois

Beauveria bassiana 7152 7153 7154
Metarhizium anisopliae sensu lato
7180
Zoophthora phytonomi 3342 3343
3344

Kansas

Beauveria bassiana 6471
Metarhizium robertsii 6472

Kentucky

Beauveria bassiana 2270
Beauveria brongniartii 2271

Maine

Beauveria bassiana 252 353

Maryland

Beauveria bassiana 8998

Massachusetts

Beauveria bassiana 3037
Metarhizium anisopliae sensu lato
6389
Penicillium sp. 3036
Pochonia bulbilosa(?) 3035

Michigan

Aspergillus flavus 6469
Aspergillus sp. 6571
Beauveria bassiana 2580 5813 7160
7161 7162 7163 7165 8260 8261 8262
8263 8771 8772 8773 8774
Beauveria sp. 8110 8111 8112 8113
8116 8117 8119 8120 8121 8122 8123
8124 8125 8126 8127 8128 8129 8130
8132 8133 8134 8135 8136 8137 8138
8139 8140 8141 8143 8144 8145 8146
8147 8148 8149 8150 8151 8152 8153
8154 8156 8158 8159 8160 8161 8164
8166 8167 8168 8169 8170 8171 8172
8173 8174 8175 8176 8177 8178 8180
8181 8182 8185 8186 8187 8188
Fusarium sp. 8131 8266 8267
Isaria farinosa 9944 9945
Isaria fumosorosea 8142
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1081 1619 1620 1621 1622 1623 1624
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82-2-15-05 *Isaria amoenerosea* 744
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82-3-24-01 *Beauveria bassiana* 753
82-4-29-01 *Beauveria bassiana* 785
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82-6-28-01 *Beauveria bassiana* 809
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DV-05-22 *Beauveria bassiana* 9302
DV-05-7 *Beauveria bassiana* 9298
THR-11-15 *Beauveria bassiana* 11844
THR-11-21 *Metarhizium anisopliae*
sensu lato 11850
THR-11-22 *Hirsutella thompsonii* 11819
THR-11-28 *Isaria farinosa* 11827
THR-11-32 *Isaria farinosa* 11831
THR-11-46 *Lecanicillium* nr. *araneum*
11799
THR-11-50 *Lecanicillium muscarium*
11803
THR-11-52 *Lecanicillium evansii*(?)
11805
THR-11-60 *Lecanicillium* nr. *araneum*
11811

Gutierrez Samperio, Jorge

21 *Metarhizium anisopliae* sensu lato
3305
22 *Metarhizium anisopliae* sensu lato
3306
24 *Metarhizium anisopliae* sensu lato
3308
25 *Beauveria bassiana* 3309
26 *Beauveria bassiana* 3310
27 *Beauveria bassiana* 3311
3 *Beauveria bassiana* 3287

Hajek, Ann E.

02 NY 5-6-1 *Isaria farinosa* 8411
1 *Beauveria brongniartii* 6213
2A *Beauveria brongniartii* 6214
3A *Beauveria brongniartii* 6215
5B *Beauveria bassiana* 6216
6B *Beauveria bassiana* 6217
BFMS *Beauveria bassiana* 3667
FS6 *Metarhizium brunneum* 8415
Q2k953 *Beauveria bassiana* 8412
ST2 *Beauveria bassiana* 8413
VD-1 *Metarhizium brunneum* 7234
VD3 *Metarhizium brunneum* 8416
VD7 *Metarhizium brunneum* 8417
VD8 *Metarhizium brunneum* 8418
VD9 *Metarhizium brunneum* 8419
WU19 *Metarhizium pingshaense* 8420
WU50 *Beauveria bassiana* 8414
WU6 *Scopulariopsis* sp. 8421

Hanula, James

C-1 *Verticillium insectorum* 3715
C-2 *Beauveria bassiana* 3716
C-3 *Beauveria bassiana* 3717
C-4 *Cordyceps* sp. 3718
C-5 *Metarhizium anisopliae* sensu lato
3713
C-5 Unidentified sp. 3714
W-2 Unidentified sp. 3719

Hatting, Justin L.

TPC 019 Unidentified / Hyphomycetes
11666

Hodge, Kathie T.

kth30A *Tolypocladium inflatum* 4877
kth30B *Tolypocladium inflatum* 4878
kth30C *Tolypocladium inflatum* 4879
kth30D *Tolypocladium inflatum* 4880
kth30E *Tolypocladium inflatum* 4881
kth30F *Tolypocladium inflatum* 4882
kth30G *Tolypocladium inflatum* 4883
kth30H *Tolypocladium inflatum* 4884
kth30I *Tolypocladium inflatum* 4885
kth30J *Tolypocladium inflatum* 4886
kth30K *Tolypocladium inflatum* 4887
kth30L *Tolypocladium inflatum* 4888
kth30M *Tolypocladium inflatum* 4889
kth30N *Tolypocladium inflatum* 4890
kth30O *Tolypocladium inflatum* 4891
kth30P *Tolypocladium inflatum* 4892
kth30Q *Tolypocladium inflatum* 4893
kth30R *Tolypocladium inflatum* 4894
kth30S *Tolypocladium inflatum* 4895
kth30T *Tolypocladium inflatum* 4896
kth30U *Tolypocladium inflatum* 4897
kth30V *Tolypocladium inflatum* 4898

Holdom, David G.

900118-01 *Paraisaria dubia* 5764

Hollingsworth, Robert G.

H2 *Beauveria bassiana* 8705

Hostetter, Donald L.

T090 *Beauveria bassiana* 5148
T100 *Metarhizium robertsii* 5149
T103 *Beauveria bassiana* 5150

Humber, Richard A.

2A *Fusarium* sp. 7063

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012944 *Beauveria bassiana* 7758
014746 *Metarhizium brunneum* 2107
152222 *Metarhizium guizhouense* 3603
170146 *Metarhizium flavoviride* 2133
205309 *Synnematium jonesii* 5664
228343 *Beauveria malawiensis* 7760
232818 *Beauveria brongniartii* 7761
298059 *Metarhizium pingshaense* 3604
327906 *Beauveria bassiana* 2693
327908 *Beauveria bassiana* 2685
327909 *Beauveria bassiana* 2686
327910 *Beauveria bassiana* 2688
328059 *Beauveria varroae* 2694
329064 *Beauveria bassiana* 2689
329065 *Beauveria bassiana* 2690
329066 *Beauveria bassiana* 2691

329067 *Beauveria bassiana* 2692
330194 *Beauveria bassiana* 2687
358840 *Beauveria bassiana* 7763
386243 *Beauveria bassiana* 7764
386367 *Beauveria bassiana* 7774
386368 *Beauveria bassiana* 7773
389521 *Beauveria bassiana* 7769
I91-613 *Metarhizium robertsii* 2575
I91-613 *Metarhizium robertsii* 3608

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Bb-142 *Beauveria bassiana* 1185
Bb-169 *Beauveria bassiana* 1491
Bb-195 *Beauveria bassiana* 1186
Ma-181 *Metarhizium anisopliae* sensu
lato 3148
Ma-51 *Metarhizium anisopliae* var. *ma-*
jus 3145
Mf-88 *Metarhizium flavoviride* var.
flavoviride 1184
Mf-88 *Metarhizium flavoviride* 2024

JABB of the Carolinas Inc.

NC2 *Beauveria bassiana* 7941

Jones, Wendy E.

SHB *Beauveria bassiana* 3040

Keller, Siegfried

117 *Beauveria brongniartii* 1067
118 *Beauveria brongniartii* 1068
119 *Beauveria brongniartii* 1069
120 *Beauveria brongniartii* 1070
125 *Beauveria brongniartii* 1071
126 *Beauveria brongniartii* 1072
131 *Beauveria brongniartii* 1076
134 *Beauveria brongniartii* 1077
425 *Pandora blunckii* 917
426 *Pandora blunckii* 915
430 *Pandora blunckii* 920
48 *Zoophtora anglica* 396
48 *Metarhizium anisopliae* sensu lato
1377
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491 *Conidiobolus coronatus* 1573
493 *Conidiobolus coronatus* 1574
494 *Conidiobolus coronatus* 1575
500 *Metarhizium anisopliae* sensu lato
7532
514 *Pandora blunckii* 1715
515 *Pandora blunckii* 1716
516 *Pandora blunckii* 1717
517 *Pandora blunckii* 1718
714 *Metarhizium anisopliae* sensu lato
7524
727 *Beauveria bassiana* 7525
728 *Beauveria bassiana* 7526
800 *Metarhizium anisopliae* sensu lato
7527
812 *Beauveria brongniartii* 7528
885 *Metarhizium anisopliae* sensu lato
7529
92 *Metarhizium brunneum* 1066
D155 *Beauveria bassiana* 1566
D156 *Beauveria caledonica* 1567
Ma52(S4) *Metarhizium robertsii* 1910

Kenneth, Robert G.

3 *Conidiobolus osmodes* 79
3080 *Conidiobolus osmodes* 79
3081 *Conidiobolus* sp. 80
3082 *Conidiobolus* sp. 81
3085 *Zoophthora phytonomi* 113
3095 *Zoophthora phytonomi* 191
3133 *Zoophthora phytonomi* 192
3178 *Zoophthora phytonomi* 202
C.o. 10 *Conidiobolus* sp. 81
C.o. 15 *Conidiobolus* sp. 80
E.p. 2 *Zoophthora phytonomi* 191

King, Brian C.

52 *Beauveria bassiana* 7972
77 *Beauveria bassiana* 7978

Klingen, Ingeborg

HAG.99 *Metarhizium brunneum* 6477
NCRI 1/01/Ma *Metarhizium anisopliae*
sensu lato 6901
NCRI 2/01/Bb *Beauveria bassiana* 6900

Kope, Harry H.

PFC 10 *Lecanicillium muscarium* 8051
PFC 11 *Lecanicillium muscarium* 8052
PFC 12 *Lecanicillium muscarium* 8053
PFC 15 *Lecanicillium muscarium* 8054
PFC 17 *Lecanicillium pissodis* 8055
PFC 18 *Lecanicillium pissodis* 8056
PFC 19 *Lecanicillium pissodis* 8057
PFC 5 *Lecanicillium muscarium* 8048
PFC 6 *Lecanicillium muscarium* 8049
PFC 9 *Lecanicillium muscarium* 8050

Krueger, Steve V.

MaEC1 *Metarhizium robertsii* 3108
MaEC2 *Metarhizium robertsii* 3211
MaJB1 *Metarhizium anisopliae* sensu
lato 3330
MaJB10 *Metarhizium anisopliae* sensu
lato 3337
MaJB11 *Metarhizium anisopliae* sensu
lato 3338
MaJB12 *Metarhizium anisopliae* sensu
lato 3339
MaJB13 *Metarhizium anisopliae* sensu
lato 3340
MaJB2 *Metarhizium anisopliae* sensu
lato 3331
MaJB3 *Metarhizium anisopliae* sensu
lato 3332
MaJB6 *Metarhizium anisopliae* sensu
lato 3333
MaJB7 *Metarhizium anisopliae* sensu
lato 3334
MaJB8 *Metarhizium anisopliae* sensu
lato 3335
MaJB9 *Metarhizium anisopliae* sensu
lato 3336
MF-Ec Unidentified / Hyphomycetes
2999

Kyei-Poku, George

B12B *Beauveria bassiana* 10435
B16C *Beauveria bassiana* 10436
B22A *Beauveria bassiana* 10437
B2C *Beauveria bassiana* 10433
B4B *Beauveria bassiana* 10434
L11A *Beauveria bassiana* 10393
L12A *Beauveria bassiana* 10394
L16-1A *Beauveria bassiana* 10395
L18-2B *Beauveria bassiana* 10396
L19C *Beauveria bassiana* 10427
L21B *Beauveria bassiana* 10397
L22A *Beauveria bassiana* 10398
L23-2BA *Beauveria bassiana* 10399
L24A *Beauveria bassiana* 10400
L25A-A *Beauveria bassiana* 10401
L25BC *Beauveria bassiana* 10402
L26A *Beauveria bassiana* 10403
L27A *Beauveria bassiana* 10404
L28A *Beauveria bassiana* 10405
L30C *Beauveria bassiana* 10406
L31A *Beauveria bassiana* 10407
L33AE *Beauveria bassiana* 10408
L34C *Beauveria bassiana* 10409
L35C *Beauveria bassiana* 10410
L38B *Beauveria bassiana* 10411
L41C *Beauveria bassiana* 10412
L47A *Beauveria bassiana* 10413
L48-2A *Beauveria bassiana* 10414
L49-1AA *Beauveria bassiana* 10415
L49-2AA *Beauveria bassiana* 10416
L49-2bA *Beauveria bassiana* 10417
L51D *Beauveria bassiana* 10418
L52A *Beauveria bassiana* 10419
L57A *Beauveria bassiana* 10420
L61A *Beauveria bassiana* 10421
L62A *Beauveria bassiana* 10422
L63A *Beauveria bassiana* 10423
L64A *Beauveria bassiana* 10424
L65B *Beauveria bassiana* 10425
L68A *Beauveria bassiana* 10426
L71A *Beauveria bassiana* 10428
L72B *Beauveria bassiana* 10429
L73B *Beauveria bassiana* 10430
L76A *Beauveria bassiana* 10431
LDY20A *Beauveria bassiana* 10440
LDY24A *Beauveria bassiana* 10441
LDY25A *Beauveria bassiana* 10442
LDY32A *Beauveria bassiana* 10443
LDY37A *Beauveria bassiana* 10444
LDY42A *Beauveria bassiana* 10445
LHY03A *Beauveria bassiana* 10447
LHY07A *Beauveria bassiana* 10449
LHY10A *Beauveria bassiana* 10451
LHY11A *Beauveria bassiana* 10452
LHY12A *Beauveria bassiana* 10453
LHY13A *Beauveria bassiana* 10454
LHY14A *Beauveria bassiana* 10455
LHY15A *Beauveria bassiana* 10456
LHY16A *Beauveria bassiana* 10457
LHY17A *Beauveria bassiana* 10458
LHY18A *Beauveria bassiana* 10459
LHY19A *Beauveria bassiana* 10460
LHY1A *Beauveria bassiana* 10446
LHY21A *Beauveria bassiana* 10461
LHY22A *Beauveria bassiana* 10462

LHY44A *Beauveria bassiana* 10463
LHY47A *Beauveria bassiana* 10464
LHY48A *Beauveria bassiana* 10465
LHY49A *Beauveria bassiana* 10466
LHY4A *Beauveria bassiana* 10448
LHY8A *Beauveria bassiana* 10450
S4-C *Beauveria bassiana* 10432
SY07A *Beauveria bassiana* 10467
SY16A *Beauveria bassiana* 10468
W4A *Beauveria bassiana* 10438
W6A *Beauveria bassiana* 10439

Lacey, Lawrence A.

92140 Unidentified sp. 3841
92141 *Metarhizium brunneum* 3864
93017 Unidentified sp. 3980
93038 *Beauveria bassiana* 4001
94007 *Isaria amoenerosea* 4097
94127 *Beauveria brongniartii* 4458
94131 *Beauveria brongniartii* 4389
94132 *Beauveria* sp. 4390
94133 *Beauveria* sp. 4391
94134 *Beauveria* sp. 4392
94135 *Beauveria asiatica* 4384
94136 *Beauveria brongniartii* 4385
94137 *Beauveria brongniartii* 4386
94138 *Mixed Culture* sp. 4387
94139 *Beauveria brongniartii* 4388
94140 *Beauveria bassiana* 4382
94141 *Beauveria brongniartii* 4380
94142 *Beauveria brongniartii* 4381
94143 *Beauveria brongniartii* 4465
94144 *Beauveria brongniartii* 4466
94145 *Beauveria brongniartii* 4467
94146 *Beauveria brongniartii* 4468
94147 *Beauveria brongniartii* 4469
94148 *Beauveria brongniartii* 4470
94149 *Beauveria brongniartii* 4471
94150 *Beauveria brongniartii* 4472
94151 *Beauveria brongniartii* 4473
94152 *Beauveria asiatica* 4474
94153 *Beauveria brongniartii* 4475
94154 *Beauveria brongniartii* 4476
94155 *Beauveria brongniartii* 4477
94156 *Beauveria brongniartii* 4478
95009 *Metarhizium anisopliae* sensu lato
4907
95010 *Metarhizium anisopliae* sensu lato
4908
95011 *Beauveria* sp. 4909
95012 *Beauveria* sp. 4910
95013 *Beauveria* sp. 4911
95014 *Beauveria* sp. 4912
95015 *Beauveria* sp. 4913
95016 *Beauveria* sp. 4914
95017 *Beauveria* sp. 4915
95018 *Beauveria* sp. 4916
95019 *Beauveria* sp. 4917
95020 *Beauveria* sp. 4918
95035 *Beauveria pseudobassiana* 4933
95048 *Beauveria amorpha* 4990
95050 *Beauveria brongniartii* 4992
95052 *Beauveria brongniartii* 4993
95053 *Beauveria brongniartii* 4994
95054 *Beauveria brongniartii* 4995
95062 *Beauveria pseudobassiana* 5070

- 95063 *Beauveria bassiana* 5071
95064 *Beauveria bassiana* 5072
95065 *Isaria farinosa* 5073
95066 *Isaria farinosa* 5074
95067 *Isaria farinosa* 5075
95069 *Isaria farinosa* 5080
96001 Unidentified / Hyphomycetes
5223
96002 Unidentified / Hyphomycetes
5224
96003 Unidentified / Hyphomycetes
5225
96004 Unidentified / Hyphomycetes
5226
96005 Unidentified / Hyphomycetes
5227
96015 *Beauveria brongniartii* 5355
96016 *Beauveria brongniartii* 5356
96017 *Beauveria brongniartii* 5357
96018 *Beauveria brongniartii* 5358
96019 *Beauveria brongniartii* 5359
96020 *Beauveria brongniartii* 5360
96021 *Beauveria brongniartii* 5361
96022 *Beauveria brongniartii* 5362
96023 *Beauveria brongniartii* 5363
96024 *Beauveria brongniartii* 5364
YARL 011219-10 *Metarhizium anisopliae* sensu lato 7006
YARL 011219-11 *Metarhizium anisopliae* sensu lato 7007
YARL 011219-14 *Metarhizium anisopliae* sensu lato 7008
YARL 011219-15 *Metarhizium anisopliae* sensu lato 7009
YARL 011219-7 *Metarhizium anisopliae* sensu lato 7004
YARL 011219-9 *Metarhizium anisopliae* sensu lato 7005
YARL 020128-1 *Metarhizium anisopliae* sensu lato 7000
YARL 020128-2 *Metarhizium anisopliae* sensu lato 7001
YARL 020128-3 *Metarhizium anisopliae* sensu lato 7002
YARL 020128-4 *Metarhizium anisopliae* sensu lato 7003
- LeBrun, Roger A.**
Bio 1020 *Metarhizium brunneum* 5198
- Liu, Houping**
MF-101 *Beauveria* sp. 8110
MF-102 *Beauveria* sp. 8111
MF-201 *Beauveria* sp. 8112
MF-202 *Beauveria* sp. 8113
MF-203 *Lecanicillium muscarium* 8114
MF-204 *Lecanicillium lecanii* 8115
MF-205 *Beauveria* sp. 8116
MF-206 *Beauveria* sp. 8117
MF-208 *Lecanicillium muscarium* 8118
MF-209 *Beauveria* sp. 8119
MF-210 *Beauveria* sp. 8120
MF-211 *Beauveria* sp. 8121
MF-212 *Beauveria* sp. 8122
MF-213 *Beauveria* sp. 8123
MF-214 *Beauveria* sp. 8124
MF-215 *Beauveria* sp. 8125
- MF-216 *Beauveria* sp. 8126
MF-217 *Beauveria* sp. 8127
MF-218 *Beauveria* sp. 8128
MF-219 *Beauveria* sp. 8129
MF-220 *Beauveria* sp. 8130
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MF-222 *Beauveria* sp. 8132
MF-223 *Beauveria* sp. 8133
MF-224 *Beauveria* sp. 8134
MF-225 *Beauveria* sp. 8135
MF-226 *Beauveria* sp. 8136
MF-227 *Beauveria* sp. 8137
MF-228 *Beauveria* sp. 8138
MF-229 *Beauveria* sp. 8139
MF-231 *Beauveria* sp. 8140
MF-232 *Beauveria* sp. 8141
MF-233 *Isaria fumosorosea* 8142
MF-234 *Beauveria* sp. 8143
MF-235 *Beauveria* sp. 8144
MF-236 *Beauveria* sp. 8145
MF-237 *Beauveria* sp. 8146
MF-238 *Beauveria* sp. 8147
MF-239 *Beauveria* sp. 8148
MF-240 *Beauveria* sp. 8149
MF-241 *Beauveria* sp. 8150
MF-242 *Beauveria* sp. 8151
MF-243 *Beauveria* sp. 8152
MF-244 *Beauveria* sp. 8153
MF-245 *Beauveria* sp. 8154
MF-246 Unidentified / Hyphomycetes
8155
MF-247 *Beauveria* sp. 8156
MF-248 *Lecanicillium muscarium* 8157
MF-249 *Beauveria* sp. 8158
MF-250 *Beauveria* sp. 8159
MF-251 *Beauveria* sp. 8160
MF-252 *Beauveria* sp. 8161
MF-253 *Lecanicillium muscarium*(?)
8162
MF-254 *Lecanicillium muscarium* 8163
MF-255 *Beauveria* sp. 8164
MF-257 *Lecanicillium muscarium* 8165
MF-258 *Beauveria* sp. 8166
MF-259 *Beauveria* sp. 8167
MF-260 *Beauveria* sp. 8168
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MF-263 *Beauveria* sp. 8170
MF-264 *Beauveria* sp. 8171
MF-265 *Beauveria* sp. 8172
MF-266 *Beauveria* sp. 8173
MF-267 *Beauveria* sp. 8174
MF-268 *Beauveria* sp. 8175
MF-270 *Beauveria* sp. 8176
MF-271 *Beauveria* sp. 8177
MF-272 *Beauveria* sp. 8178
MF-273 Unidentified / Hyphomycetes
8179
MF-274 *Beauveria* sp. 8180
MF-276 *Beauveria* sp. 8181
MF-279 *Beauveria* sp. 8182
MF-281 Unidentified / Hyphomycetes
8183
MF-282 Unidentified / Hyphomycetes
8184
MF-283 *Beauveria* sp. 8185
MF-284 *Beauveria* sp. 8186
- MF-285 *Beauveria* sp. 8187
MF-286 *Beauveria* sp. 8188
MSUFS-001 *Beauveria bassiana* 7152
MSUFS-002 *Beauveria bassiana* 7153
MSUFS-003 *Beauveria bassiana* 7154
MSUFS-004 *Beauveria bassiana* 7155
MSUFS-005 *Beauveria bassiana* 7156
MSUFS-006 *Beauveria bassiana* 7157
MSUFS-007 *Beauveria bassiana* 7158
MSUFS-008 *Beauveria bassiana* 7159
MSUFS-009 *Beauveria bassiana* 7160
MSUFS-011 *Beauveria bassiana* 7161
MSUFS-012 *Beauveria bassiana* 7162
MSUFS-013 *Beauveria bassiana* 7163
MSUFS-014 *Beauveria bassiana* 7164
MSUFS-015 *Beauveria bassiana* 7165
MSUFS-016 *Beauveria bassiana* 7166
MSUFS-017 *Beauveria bassiana* 7167
MSUFS-018 *Beauveria bassiana* 7168
MSUFS-019 *Beauveria bassiana* 7169
MSUFS-020 *Beauveria bassiana* 7170
MSUFS-021 *Beauveria bassiana* 7171
MSUFS-022 *Beauveria bassiana* 7172
MSUFS-023 *Beauveria bassiana* 7173
MSUFS-024 *Beauveria bassiana* 7174
MSUFS-025 *Beauveria bassiana* 7175
MSUFS-026 *Beauveria bassiana* 7176
MSUFS-027 *Beauveria bassiana* 7177
MSUFS-028 *Beauveria bassiana* 7178
MSUFS-029 *Beauveria bassiana* 7179
MSUFS-500 *Metarhizium anisopliae*
sensu lato 7180
MSUFS-701 *Lecanicillium lecanii* 7181
MSUFS-702 *Lecanicillium lecanii* 7182
- López Lastra, Claudia**
I C *Beauveria bassiana* 7202
- LPSC**
896 *Beauveria bassiana* 8372
897 *Beauveria bassiana* 8373
900 *Beauveria bassiana* 8464
- MAF**
F1 *Beauveria brongniartii* 3054
F11 *Metarhizium anisopliae* sensu lato
3056
F12 *Metarhizium anisopliae* sensu lato
3057
F13 *Beauveria pseudobassiana* 3063
F28 *Beauveria pseudobassiana* 3065
F29 *Beauveria pseudobassiana* 3066
F33 *Beauveria pseudobassiana* 3070
F6 *Beauveria pseudobassiana* 3055
- Majchrowicz, Irena**
23 *Beauveria bassiana* 3386
3a *Metarhizium robertsii* 3388
56 *Beauveria bassiana* 1509
58 *Beauveria bassiana* 1510
61 *Isaria farinosa* 1507
70 *Lecanicillium lecanii* 1505
71 *Isaria fumosorosea* 1506
75 *Beauveria bassiana* 1511
76 *Isaria farinosa* 1508
T-11-4 *Metarhizium anisopliae* sensu
lato 3389

Marold, Lorraine

ARSEF2547 *Metarhizium robertsii* 4123

Martins, Antonio S.

A-1 *Metarhizium anisopliae* sensu lato
3329

McCoy, Clayton W.

Mada *Metarhizium pingshaense* 5197

McKown, P.D.

C-7 *Beauveria bassiana* 3534

McManus, Jennifer

HcBbF66.1 2p *Beauveria bassiana* 4974
HcBbF66.2 2p *Beauveria bassiana* 4975
HcBbV64 2p *Beauveria bassiana* 4973

Mechaber, Wendy

weevil#1318 *Fusarium* sp. 3030
weevil#1334 *Fusarium* sp. 3031
weevil#1354 *Fusarium* sp. 3032
weevil#2209 *Pochonia bulbillosa*(?) 3035
weevil#2272 *Penicillium* sp. 3036
weevil#2354 *Beauveria bassiana* 3037

Mercadier, Guy

EBCL 97001 *Beauveria bassiana* 5436
EBCL 97002 *Beauveria bassiana* 5437
EBCL 97003 *Beauveria bassiana* 5438
EBCL 97004 *Beauveria bassiana* 5439
EBCL 97005 *Beauveria bassiana* 5440
EBCL 97006 *Beauveria bassiana* 5477
EBCL 97007 *Beauveria bassiana* 5478
EBCL 97008 *Beauveria bassiana* 5479
EBCL 97009 *Beauveria bassiana* 5480
EBCL 97010 *Beauveria bassiana* 5481
EBCL 97011 *Beauveria bassiana* 5454
EBCL 97012 *Beauveria bassiana* 5455
EBCL 97013 *Beauveria bassiana* 5456
EBCL 97014 *Beauveria bassiana* 5457
EBCL 97015 *Beauveria bassiana* 5458
EBCL 97016 *Beauveria bassiana* 5443
EBCL 97017 *Beauveria bassiana* 5444
EBCL 97018 *Beauveria bassiana* 5445
EBCL 97019 *Beauveria bassiana* 5446
EBCL 97020 *Beauveria bassiana* 5447
EBCL 97021 *Beauveria bassiana* 5448
EBCL 97022 *Beauveria bassiana* 5449
EBCL 97023 *Beauveria bassiana* 5450
EBCL 97024 *Beauveria bassiana* 5451
EBCL 97025 *Beauveria bassiana* 5452
EBCL 97026 *Beauveria bassiana* 5453
EBCL 97027 *Beauveria bassiana* 5441
EBCL 97028 *Beauveria bassiana* 5442
EBCL 97029 *Beauveria bassiana* 5459
EBCL 97030 *Beauveria bassiana* 5460
EBCL 97031 *Fusarium* sp. 5461
EBCL 97032 *Beauveria bassiana* 5482
EBCL 97033 *Beauveria bassiana* 5483
EBCL 97034 *Beauveria bassiana* 5484
EBCL 97036 *Beauveria bassiana* 5485
EBCL 97037 *Beauveria bassiana* 5486
EBCL 97038 *Beauveria bassiana* 5487
EBCL 97039 *Beauveria bassiana* 5488
EBCL 97040 *Beauveria bassiana* 5489
EBCL 97041 *Beauveria bassiana* 5490

Meyling, Nicolai Vitt

KVL 03-70 *Beauveria caledonica* 8024
KVL 04-32 *Beauveria bassiana* 8037
KVL 04-33 *Beauveria bassiana* 8038

Milner, Richard J.

Fl1 *Beauveria bassiana* 4130

Morales, Anuar

#1A *Purpureocillium lilacinum* 9371
#1B *Metarhizium anisopliae* sensu lato
9372
#3 *Metarhizium anisopliae* sensu lato
9373
#6 *Metarhizium anisopliae* sensu lato
9374

Muthappa, B.N.

PNG 12711 *Metarhizium anisopliae*
sensu lato 2156
PNG 12721 *Metarhizium pingshaense*
2162
PNG 12722 *Metarhizium anisopliae*
sensu lato 2163
PNG 12724 *Metarhizium anisopliae*
sensu lato 2165
PNG 12725 *Scopulariopsis* sp. 2169
PNG 12726 *Metarhizium anisopliae*
sensu lato 2166
PNG 12727 *Metarhizium anisopliae*
sensu lato 2167

Narayanan, K.

7 *Metarhizium pingshaense* 2231
9 *Beauveria* sp. 2412

Naves, Marcio A.

CG-6 *Metarhizium anisopliae* sensu lato
1901

NCRI

245/02 *Beauveria bassiana* 11660

Neumann, Gábor

HDM 1 *Beauveria bassiana* 6884
HDM 2 *Beauveria bassiana* 6885

NRRL

1944 *Metarhizium brunneum* 2107
25082 *Fusarium* sp. 1310
25091 *Fusarium* sp. 2568
25092 *Fusarium* sp. 2569
25097 *Fusarium* sp. 3030
25098 *Fusarium* sp. 3031
25099 *Fusarium* sp. 3032
25123 *Fusarium* sp. 4011
52701 *Fusarium* sp. 6602
52740 *Fusarium* sp. 8131
52741 *Fusarium* sp. 8266
52743 *Fusarium* sp. 8267
52764 *Fusarium* sp. 4825

Parker, Bruce L.

0207B *Metarhizium anisopliae* sensu lato
8777
AVRDC 0005B *Metarhizium anisopliae*
sensu lato 8775
AVRDC 0009B *Metarhizium anisopliae*
sensu lato 8776
AVRDC 0058B *Purpureocillium lilac-*
inum 8918
AVRDC 0076B *Metarhizium anisopliae*
sensu lato 9236
AVRDC 0153B *Metarhizium anisopliae*
sensu lato 8798
AVRDC 0154B *Metarhizium anisopliae*
sensu lato 8941
AVRDC 0166B *Metarhizium anisopliae*
sensu lato 8942
AVRDC 0168B *Metarhizium anisopliae*
sensu lato 8799
AVRDC 0184B *Metarhizium anisopliae*
sensu lato 8952
AVRDC 0186B *Metarhizium anisopliae*
sensu lato 8953
AVRDC 0193B *Metarhizium anisopliae*
sensu lato 8795
AVRDC 0193B *Metarhizium anisopliae*
sensu lato 8951
AVRDC 0205B *Metarhizium anisopliae*
sensu lato 8796
AVRDC 0214B *Metarhizium anisopliae*
sensu lato 8778
AVRDC 0216B *Metarhizium anisopliae*
sensu lato 8779
AVRDC 0224B *Metarhizium anisopliae*
sensu lato 8780
AVRDC 0238B *Metarhizium anisopliae*
sensu lato 8943
AVRDC 0244B *Metarhizium anisopliae*
sensu lato 8781
AVRDC 0245B *Metarhizium anisopliae*
sensu lato 8944
AVRDC 0246B *Metarhizium anisopliae*
sensu lato 8797
AVRDC 0260B *Metarhizium anisopliae*
sensu lato 8782
AVRDC 0262B *Metarhizium anisopliae*
sensu lato 8945
AVRDC 0286B *Purpureocillium lilac-*
inum 8919
AVRDC 0293B *Metarhizium anisopliae*
sensu lato 8783
AVRDC 0295B *Metarhizium anisopliae*
sensu lato 8784
AVRDC 0303B *Metarhizium anisopliae*
sensu lato 8946
AVRDC 0312B *Metarhizium anisopliae*
sensu lato 8785
AVRDC 0331B *Metarhizium anisopliae*
sensu lato 8786
AVRDC 0338B *Metarhizium anisopliae*
sensu lato 8787
AVRDC 0344B *Metarhizium anisopliae*
sensu lato 8788
AVRDC 0346B *Metarhizium anisopliae*
sensu lato 8789

AVRDC 0350B *Metarhizium anisopliae*
sensu lato 8790
AVRDC 0355B *Metarhizium anisopliae*
sensu lato 8791
AVRDC 0373B *Metarhizium anisopliae*
sensu lato 8792
AVRDC 0374B *Metarhizium anisopliae*
sensu lato 8793
AVRDC 0376B *Metarhizium anisopliae*
sensu lato 8954
AVRDC 0377B *Metarhizium anisopliae*
sensu lato 8794
AVRDC 0381B *Metarhizium anisopliae*
sensu lato 8858
AVRDC 0382B *Metarhizium anisopliae*
sensu lato 8868
AVRDC 0383B *Metarhizium anisopliae*
sensu lato 8859
AVRDC 0384B *Metarhizium anisopliae*
sensu lato 8869
AVRDC 0385B *Metarhizium anisopliae*
sensu lato 8947
AVRDC 0388B *Metarhizium anisopliae*
sensu lato 8870
AVRDC 0389B *Metarhizium anisopliae*
sensu lato 8948
AVRDC 0390B *Metarhizium anisopliae*
sensu lato 8860
AVRDC 0392B *Metarhizium anisopliae*
sensu lato 8871
AVRDC 0393B *Metarhizium anisopliae*
sensu lato 8861
AVRDC 0394B *Metarhizium anisopliae*
sensu lato 8872
AVRDC 0397B *Metarhizium anisopliae*
sensu lato 8873
AVRDC 0398B *Metarhizium anisopliae*
sensu lato 8955
AVRDC 0399B *Metarhizium anisopliae*
sensu lato 8862
AVRDC 0402B *Metarhizium anisopliae*
sensu lato 8863
AVRDC 0404B *Metarhizium anisopliae*
sensu lato 8874
AVRDC 0408B *Metarhizium anisopliae*
sensu lato 8864
AVRDC 0410B *Metarhizium anisopliae*
sensu lato 8865
AVRDC 0411B *Metarhizium anisopliae*
sensu lato 8866
AVRDC 0414B *Metarhizium anisopliae*
sensu lato 8867
AVRDC 0419B *Metarhizium anisopliae*
sensu lato 8875
AVRDC 0420B *Metarhizium anisopliae*
sensu lato 8876
AVRDC 0423B *Metarhizium anisopliae*
sensu lato 8877
AVRDC 0432B *Metarhizium anisopliae*
sensu lato 8878
AVRDC 0437B *Metarhizium anisopliae*
sensu lato 8879
AVRDC 0439B *Metarhizium anisopliae*
sensu lato 8880
AVRDC 0440B *Metarhizium anisopliae*
sensu lato 8881

AVRDC 0441B *Metarhizium anisopliae*
sensu lato 8882
AVRDC 0442B *Metarhizium anisopliae*
sensu lato 8883
AVRDC 0449B *Metarhizium anisopliae*
sensu lato 8884
AVRDC 0450B *Metarhizium anisopliae*
sensu lato 8885
AVRDC 0451B *Metarhizium anisopliae*
sensu lato 8886
AVRDC 0458B *Metarhizium anisopliae*
sensu lato 8887
AVRDC 0459B *Metarhizium anisopliae*
sensu lato 8912
AVRDC 0462B *Metarhizium anisopliae*
sensu lato 8913
AVRDC 0465B *Metarhizium anisopliae*
sensu lato 8914
AVRDC 0467B *Metarhizium anisopliae*
sensu lato 8894
AVRDC 0468B *Metarhizium anisopliae*
sensu lato 8895
AVRDC 0469B *Metarhizium anisopliae*
sensu lato 8896
AVRDC 0470B *Metarhizium anisopliae*
sensu lato 8897
AVRDC 0477B *Metarhizium anisopliae*
sensu lato 8898
AVRDC 0482B *Isaria farinosa* 8917
AVRDC 0483B *Metarhizium anisopliae*
sensu lato 8899
AVRDC 0485B *Metarhizium anisopliae*
sensu lato 8900
AVRDC 0492B *Metarhizium anisopliae*
sensu lato 8901
AVRDC 0493B *Metarhizium anisopliae*
sensu lato 8915
AVRDC 0500B *Metarhizium anisopliae*
sensu lato 8902
AVRDC 0506B *Metarhizium anisopliae*
sensu lato 8949
AVRDC 0518B *Scopulariopsis* sp. 11652
AVRDC 0520B *Metarhizium anisopliae*
sensu lato 8916
AVRDC 0523B *Metarhizium anisopliae*
sensu lato 8903
AVRDC 0527B *Purpureocillium lilac-*
inum 8920
AVRDC 0529B *Purpureocillium lilac-*
inum 8921
AVRDC 0549B *Metarhizium anisopliae*
sensu lato 8904
AVRDC 0555B *Metarhizium anisopliae*
sensu lato 8905
AVRDC 0561B *Metarhizium anisopliae*
sensu lato 9235
AVRDC 0567B *Metarhizium anisopliae*
sensu lato 8906
AVRDC 0587B *Purpureocillium lilac-*
inum 8922
AVRDC 0588B *Lecanicillium muscarium*
8923
AVRDC 0592B *Metarhizium anisopliae*
sensu lato 8907
AVRDC 0599B *Metarhizium anisopliae*
sensu lato 8908

AVRDC 0602B *Metarhizium anisopliae*
sensu lato 8950
AVRDC 0611B *Metarhizium anisopliae*
sensu lato 8909
AVRDC 0612B *Metarhizium anisopliae*
sensu lato 8910
AVRDC 0614B *Metarhizium anisopliae*
sensu lato 8911
SP-3 *Beauveria bassiana* 10347
SP-374 *Beauveria bassiana* 10350
SPT 003 *Beauveria* sp. 5831
SPT 012 *Isaria farinosa* 5754
SPT 013/1 *Beauveria* sp. 5833
SPT 013/2 *Isaria farinosa* 5834
SPT-010 *Beauveria pseudobassiana* 5668
SPT-014 Unidentified / *Hyphomycetes*
5677
SPT-018 *Beauveria pseudobassiana* 5669
SPT-019 *Beauveria bassiana* 5670
SPT-020 *Beauveria pseudobassiana* 5678
SPT-2-279 *Purpureocillium lilacinum*
6110
SPT-KR-415/2 *Verticillium* sp. 6486
SPT-KR-452 *Beauveria bassiana* 6499
SPT-KZ-375 *Beauveria bassiana* 6478
SPT-KZ-406 *Beauveria bassiana* 6483
SPT-KZ-412 *Verticillium* sp. 6484
SPT-KZ-417 *Verticillium lecanii* 6487
SPT-KZ-418 *Isaria farinosa* 6488
SPT-KZ-419 *Isaria farinosa* 6489
SPT-KZ-423 *Isaria farinosa* 6491
SPT-KZ-458 *Verticillium* sp. 6501
SPT-U-250 *Beauveria bassiana* 6055
SPT-U-253 *Beauveria bassiana* 6057
SPT-U-254 *Beauveria bassiana* 6058
SPT-U-255 *Beauveria bassiana* 6059
SPT-U-261 *Beauveria bassiana* 6061
SPT-U-262 *Beauveria bassiana* 6062
SPT-U-263 *Beauveria bassiana* 6063
SPT-U-264 *Beauveria bassiana* 6064
SPT-U-293 *Beauveria bassiana* 6074
SPT-U-294 *Beauveria bassiana* 6075
SPT-U-295 *Beauveria bassiana* 6111
SPT-U-296 *Beauveria bassiana* 6112
SPT-U-297 *Beauveria bassiana* 6113
SPT-U-305 *Beauveria bassiana* 6077
SPT-U-308 *Beauveria bassiana* 6078
SPT-U-323 *Beauveria bassiana* 6092
SPT-U-335 *Beauveria bassiana* 6095
SPT-U-338 *Beauveria bassiana* 6096
SPT-U-354/2 *Beauveria bassiana* 6099

Pava-Ripoll, Monica

Bb UMD-Greenhouse *Beauveria*
bassiana 8998

Pereault, Renee J.

bbpci#1 *Beauveria bassiana* 8260
bbpci#2 *Beauveria bassiana* 8261
bbpci#3 *Beauveria bassiana* 8262
bbpci#5 *Beauveria bassiana* 8263
Walton Control pci#1 *Fusarium* sp. 8267
Walton Spray pci#2 *Lecanicillium mus-*
carium(?) 8265
Walton Spray pci#3 *Fusarium* sp. 8266

Poprawski, Tadeusz J.

0107 *Beauveria bassiana* 1515
0111 *Beauveria bassiana* 1518
0112 *Beauveria bassiana* 1519
0120 Unidentified sp. 1634
0143 *Beauveria bassiana* 1647
0165 *Beauveria bassiana* 1815
0166A *Beauveria bassiana* 1816
0166B *Beauveria bassiana* 1817
0166C *Beauveria bassiana* 1818
0166D *Beauveria bassiana* 1819
0167A *Beauveria bassiana* 1820
0167B *Beauveria bassiana* 1821
0167C *Beauveria bassiana* 1811
0178 *Beauveria bassiana* 1975
0183 *Beauveria bassiana* 1980
0185 *Beauveria bassiana* 1982
070 *Beauveria bassiana* 1164
071A *Beauveria bassiana* 1163
072 *Beauveria bassiana* 1154
073 *Beauveria bassiana* 1155
074 *Beauveria bassiana* 1153
082 *Beauveria* sp. 1327
083 *Acremonium furcatum* 1372
084 *Lecanicillium muscarium* 1328
085 *Aphanocladium album* 1329
086 *Beauveria bassiana* 1398
087 *Beauveria bassiana* 1399
088 *Beauveria bassiana* 1389
089 *Lecanicillium muscarium* 1401
090 *Lecanicillium muscarium* 1402
091 *Lecanicillium muscarium* 1403
645 *Beauveria bassiana* 1191
646 *Beauveria bassiana* 1192
647 *Beauveria bassiana* 1193
648 *Beauveria bassiana* 1194
83-48 *Beauveria bassiana* 1073
83-49 *Beauveria bassiana* 1074
83-54 *Beauveria bassiana* 1075
83-611 *Beauveria bassiana* 1306
83-614 *Beauveria bassiana* 1160
83-615 *Beauveria bassiana* 1159
83-616 *Beauveria bassiana* 1182
83-619 *Beauveria bassiana* 1157
83-621 *Beauveria bassiana* 1165
83-623 *Beauveria bassiana* 1162
83-626 *Beauveria bassiana* 1161
83-634 *Beauveria bassiana* 1158
83-639 *Beauveria bassiana* 1156
83-701 *Beauveria bassiana* 1167
83-702 *Beauveria bassiana* 1168
83-703 *Beauveria bassiana* 1169
83-704 *Beauveria bassiana* 1170
8651 *Scopulariopsis* sp. 2327
8710 *Beauveria bassiana* 2463
A1 *Beauveria bassiana* 1189
A10 *Beauveria bassiana* 1311
A11 *Beauveria bassiana* 1312
A12 *Beauveria bassiana* 1313
A2 *Beauveria bassiana* 1171
A3 *Beauveria bassiana* 1190
A4 *Beauveria bassiana* 1172
A5 *Beauveria bassiana* 1173
A6 *Beauveria bassiana* 1174
A7 *Beauveria bassiana* 1175
A8 *Beauveria bassiana* 1309

A9 *Fusarium* sp. 1310
E1 *Beauveria bassiana* 1188
J1 *Beauveria bassiana* 1176
J2 *Beauveria bassiana* 1177
J3 *Beauveria bassiana* 1178
J4 *Beauveria bassiana* 1179
J5 *Beauveria bassiana* 1180
J6 *Beauveria bassiana* 1181
J7 *Beauveria bassiana* 1183
TJP901 *Beauveria bassiana* 5436
TJP902 *Beauveria bassiana* 5437
TJP903 *Beauveria bassiana* 5438
TJP904 *Beauveria bassiana* 5439
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TJP910 *Beauveria bassiana* 5445
TJP911 *Beauveria bassiana* 5446
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TJP916 *Beauveria bassiana* 5451
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TJP918 *Beauveria bassiana* 5453
TJP919 *Beauveria bassiana* 5454
TJP920 *Beauveria bassiana* 5455
TJP921 *Beauveria bassiana* 5456
TJP922 *Beauveria bassiana* 5457
TJP923 *Beauveria bassiana* 5458
TJP924 *Beauveria bassiana* 5459
TJP925 *Beauveria bassiana* 5460
TJP926 *Fusarium* sp. 5461
TJP930 *Beauveria bassiana* 5465

Prior, Christopher

Kenya 1 *Beauveria bassiana* 2685
Kenya 2 *Beauveria bassiana* 2686
Kenya 3 *Beauveria bassiana* 2687
Togo 1 *Beauveria bassiana* 2688
Togo 2 *Beauveria bassiana* 2689
Togo 3 *Beauveria bassiana* 2690
Togo 4 *Beauveria bassiana* 2691
Togo 5 *Beauveria bassiana* 2692

QEC

433.0 *Metarhizium guizhouense* 683

QM

191 *Metarhizium brunneum* 2107

Rajak, R.C.

49 *Metarhizium pingshaense* 3210

Rath, Andrew C.

F001 *Metarhizium frigidum* 4124
F007 *Beauveria bassiana* 4130
F010 *Metarhizium brunneum* 4131
F011 *Metarhizium anisopliae* sensu lato 4132
F012 *Metarhizium anisopliae* sensu lato 4133
F013 *Metarhizium anisopliae* sensu lato 4236
F014 *Metarhizium anisopliae* sensu lato 4134

F015 *Beauveria bassiana* 4135
F017 *Beauveria bassiana* 4136
F019 *Metarhizium anisopliae* sensu lato 4137
F020 *Metarhizium anisopliae* sensu lato 4138
F024 *Metarhizium anisopliae* sensu lato 4139
F025 Unidentified sp. 4140
F028 *Metarhizium anisopliae* sensu lato 4716
F029 *Metarhizium anisopliae* sensu lato 4141
F033 *Metarhizium anisopliae* sensu lato 4346
F034 *Metarhizium anisopliae* sensu lato 4239
F036 *Metarhizium anisopliae* sensu lato 4142
F120 *Metarhizium brunneum* 4228
F130 *Metarhizium flavoviride* var. *flavoviride* 4719
F133 *Metarhizium flavoviride* var. *flavoviride* 4720
F140 *Beauveria pseudobassiana* 4721
F141 *Metarhizium anisopliae* sensu lato 4722
F142 *Beauveria amorphia* 4149
F143 *Beauveria pseudobassiana* 4274
F26 Sterile mycelium 4243
F433 *Metarhizium anisopliae* sensu lato 4677
F473 *Metarhizium guizhouense* 4604
F478 *Metarhizium anisopliae* sensu lato 4582
F479 *Metarhizium anisopliae* sensu lato 4572
F480 *Metarhizium pingshaense* 4610
F481 *Metarhizium anisopliae* sensu lato 4557
F483 *Metarhizium anisopliae* sensu lato 4333
F484 *Metarhizium anisopliae* sensu lato 4335
F485 *Metarhizium anisopliae* sensu lato 4339
F486 *Metarhizium anisopliae* sensu lato 4338
F487 *Metarhizium anisopliae* sensu lato 4341
F488 *Metarhizium anisopliae* sensu lato 4336
F489 *Metarhizium anisopliae* sensu lato 4340
F490 *Metarhizium anisopliae* sensu lato 4337
F491 *Metarhizium pingshaense* 4342
F492 *Metarhizium anisopliae* sensu lato 4334
F493 *Metarhizium anisopliae* sensu lato 4290
F507 *Metarhizium anisopliae* sensu lato 4777
F510 *Metarhizium anisopliae* sensu lato 4568

- F511 *Metarhizium anisopliae* sensu lato 4778
F512 *Metarhizium anisopliae* sensu lato 4779
F513 *Metarhizium anisopliae* sensu lato 4780
F514 *Metarhizium majus* 4566
F515 *Metarhizium majus* 4601
F516 *Metarhizium anisopliae* sensu lato 4574
F124 *Metarhizium anisopliae* sensu lato 4125
- RCEF**
0189 *Isaria catenobliqua* 6244
0231 *Beauveria pseudobassiana* 6229
0385 *Beauveria brongniartii* 6235
0464 *Isaria cateniannulata* 6241
0516 *Isaria cateniannulata* 6243
5500 *Beauveria lii* 11741
- Reid, William**
BS-2010-1 *Tilachlidium* sp. 10132
- Reinganum**
124 *Metarhizium frigidum* 4124
- Reyes, Enrique Reyes Dominguez**
BbCO1 *Beauveria bassiana* 3818
BbCO2 *Beauveria bassiana* 3819
BbCO2 Unidentified sp. 3821
BbH Unidentified sp. 3821
- Riethmacher, Guenter W.**
Bet1 *Beauveria bassiana* 3197
Bet2 *Beauveria bassiana* 3198
Bet3 *Beauveria bassiana* 3199
- Roberts, Donald W.**
102381-9 *Metarhizium guizhouense* 683
103a *Metarhizium anisopliae* sensu lato 1903
DWR 1941 *Beauveria bassiana* 11878
MaT3JB-A *Metarhizium robertsii* 1878
MaT3JB-B *Metarhizium robertsii* 1298
MaT3JB-C *Metarhizium anisopliae* sensu lato 1280
Pol-32 *Metarhizium majus* 1859
Pol-42 *Metarhizium majus* 1858
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V-14 (F84 mutant) *Metarhizium robertsii* 1897
- Rodriguez Sierra, Dora Alba**
106 Bb *Beauveria bassiana* 2248
201 Bb *Beauveria bassiana* 2250
203 Bb *Beauveria bassiana* 2249
- Rombach, Michiel C.**
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140486-1 Unidentified / Hyphomycetes 2225
170386-1 *Metarhizium anisopliae* var. *majus* 2151
171085-1 *Beauveria bassiana* 2040
201286-7 *Isaria farinosa* 2355
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MMQ *Metarhizium majus* 1946
- Sánchez Peña, Sergio René**
2 *Lecanicillium* sp. 2(?) 2832
2M10 *Metarhizium anisopliae* sensu lato 11945
FM4 *Metarhizium anisopliae* sensu lato 11946
FM6 *Metarhizium anisopliae* sensu lato 11947
- Sandoval, Sonia**
95 *Beauveria pseudobassiana* 2557
- SARL**
155 *Beauveria bassiana* 5286
- Searle, Tanya**
CW1 *Beauveria bassiana* 2983
CW2 *Beauveria bassiana* 2984
CW3 *Beauveria bassiana* 2985
CW4 *Beauveria bassiana* 2986
CWMA *Metarhizium robertsii* 2981
E *Metarhizium robertsii* 2134
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K *Metarhizium anisopliae* sensu lato 2136
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LD2 *Beauveria bassiana* 2988
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LD4 *Beauveria bassiana* 2990
LD5 *Beauveria bassiana* 2991
Q *Metarhizium anisopliae* sensu lato 2137
W *Metarhizium anisopliae* sensu lato 2138
Z *Metarhizium anisopliae* sensu lato 2139
- Shimazu, Mitsuaki**
F-1101 *Beauveria brongniartii* 6412
F-237 *Beauveria bassiana* 1678
F-263 *Beauveria bassiana* 1679
F-313 *Beauveria amorphia* 1680
F-333 *Beauveria* sp. 1681
F-357(11) *Beauveria* sp. 1682
F-359(30) *Beauveria bassiana* 1683
F-450 *Beauveria sungii* 1685
F-545 *Tilachlidium* sp. 2415
F-621 *Cordyceps brongniartii* 7516
F-638 *Cordyceps brongniartii* 7517
F-77 *Beauveria amorphia* 1676
- Soares, George G.**
10 *Beauveria pseudobassiana* 814
12 *Beauveria bassiana* 815
17 *Metarhizium brunneum* 817
19 *Metarhizium anisopliae* sensu lato 818
20 *Beauveria bassiana* 816
21 *Metarhizium guizhouense* 819
6 *Beauveria pseudobassiana* 813
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- Soper, Richard S.**
F84-1-1 *Metarhizium robertsii* 23
- Sosa-Gómez, Daniel R.**
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- SRCAMB**
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B-158 *Engyodontium rectidentatum* 7805
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B-182 *Beauveria* sp. 7591
B-184 *Evlachovaea kintrischica* 7218
B-184 *Evlachovaea kintrischica* 8058
B-22 *Beauveria* sp. 7580
B-25 *Beauveria bassiana* 7581
B-255 *Lecanicillium* sp. 7635
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VL-2092 *Lecanicillium* nr. *aranearum* 9460
VL-271 *Metarhizium* sp. 7643
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- St. Leger, Raymond J.**
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195 *Beauveria bassiana* 4013
196 *Beauveria bassiana* 4015
201 *Beauveria bassiana* 4016
202 *Beauveria bassiana* 4018
205 *Beauveria bassiana* 4019
211 *Metarhizium brunneum* 4020
212 *Beauveria bassiana* 4021
216 *Verticillium lecanii* 4022
217 *Beauveria bassiana* 4023
226 *Beauveria brongniartii* 4024
231 *Beauveria* sp. 4027
233 *Beauveria bassiana* 4028
234 *Isaria farinosa* 4029
237 *Beauveria bassiana* 4031
238 *Beauveria bassiana* 4032
239 *Lecanicillium muscarium* 4033
240 *Beauveria bassiana* 4034
244 *Lecanicillium muscarium* 4036
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253 *Beauveria bassiana* 4038
259 *Isaria farinosa* 4039
260 *Isaria farinosa* 4040
261 *Beauveria bassiana* 4041
269 *Isaria farinosa* 4043
270 *Isaria farinosa* 4044
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295 *Verticillium lecanii* 4047
297 *Verticillium lecanii* 4048
298 *Beauveria bassiana* 4049
299 *Lecanicillium longisporum* 4050
349 *Beauveria bassiana* 4051
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Stimac, Jerry L.

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UF 5792 *Beauveria bassiana* 5981
UF 5820 *Beauveria bassiana* 5982
UF 5822 *Beauveria bassiana* 5983
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C-331 *Cordyceps* sp. 4852
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EFCC 5657 *Beauveria sungii* 7280
EFCC 6522 *Beauveria bassiana* 7270
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EFCC 6879 *Beauveria bassiana* 7272
EFCC 8224 *Beauveria bassiana* 7275
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KEFC-1087 Unidentified / Hyphomycetes 5695
KEFC-1105 *Beauveria* sp. 5697
KEFC-1170 *Isaria farinosa* 5699
KEFC-251 *Beauveria sungii* 5689
KEFC-919 *Isaria fumosorosea* 5694

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Batch No. B1830 *Metarhizium robertsii* 2575
Batch No. B1830 *Metarhizium robertsii* 3608

Thamarai Chelvi, C.

1 *Metarhizium anisopliae* sensu stricto 10472
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Theunis, W.

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Vandenberg, John D.

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21 *Metarhizium anisopliae* sensu lato 4823
27-2 *Fusarium* sp. 4825
29 *Metarhizium anisopliae* sensu lato 4821
29-2 *Metarhizium anisopliae* sensu lato 4824
63 *Metarhizium anisopliae* sensu lato 4819
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EBCL 98005 *Purpureocillium lilacinum*
5876
EBCL 98008 *Purpureocillium lilacinum*
5877
EBCL 98011 *Fusarium* sp. 5878
EBCL 98012 *Fusarium* sp. 5879
EBCL 98015 *Purpureocillium lilacinum*
5880
EBCL 98022 *Purpureocillium lilacinum*
5882
EBCL 99024 *Purpureocillium lilacinum*
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EBCL 99027 *Purpureocillium lilacinum*
6190
EBCL 99046 *Beauveria bassiana* 6526
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EBCL 99071 *Beauveria bassiana* 6532
MPM-5 *Isaria fumosorosea* 7284

Watson, D. Wesley

P 89 *Beauveria bassiana* 3111

Wen, Ting-chi

BB-10 *Mixed Culture* sp. 11718

Whitney, H. Stuart

CPB-1 *Beauveria bassiana* 2030
CPB-2 *Beauveria bassiana* 2031
CPB-3 *Beauveria bassiana* 2032
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LBB-multi 2 *Beauveria bassiana* 2034
R599 *Evlachovaea* sp. 1017
R629 *Beauveria bassiana* 1848
R630 *Beauveria bassiana* 1849
R634 *Beauveria bassiana* 1852
R636 *Beauveria bassiana* 1853
R637 *Beauveria bassiana* 1854
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Wilding, Neil

85 *Zoophthora anglica* 1739

Wojciechowska, M.

1110 *Beauveria pseudobassiana* 157
24 *Beauveria bassiana* 150
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Zou, Xiao

9 *Isaria fumosorosea* 9602

23	Metarhizium robertsii	758	Beauveria bassiana	1072	Beauveria brongniartii
79	Conidiobolus osmodes	760	Metarhizium anisopliae sensu lato	1073	Beauveria bassiana
80	Conidiobolus sp.	783	Beauveria bassiana	1074	Beauveria bassiana
81	Conidiobolus sp.	784	Beauveria bassiana	1075	Beauveria bassiana
113	Zoopthora phytonomi	785	Beauveria bassiana	1076	Beauveria brongniartii
149	Beauveria bassiana	786	Beauveria bassiana	1077	Beauveria brongniartii
150	Beauveria bassiana	787	Beauveria bassiana	1079	Beauveria bassiana
157	Beauveria pseudobassiana	788	Beauveria bassiana	1081	Beauveria bassiana
191	Zoopthora phytonomi	797	Metarhizium robertsii	1106	Beauveria bassiana
192	Zoopthora phytonomi	799	Isaria farinosa	1123	Sorospora uvella
201	Beauveria bassiana	804	Beauveria bassiana	1153	Beauveria bassiana
202	Zoopthora phytonomi	805	Beauveria bassiana	1154	Beauveria bassiana
252	Beauveria bassiana	808	Metarhizium anisopliae sensu lato	1155	Beauveria bassiana
293	Beauveria bassiana	809	Beauveria bassiana	1156	Beauveria bassiana
297	Metarhizium anisopliae var. majus	813	Beauveria pseudobassiana	1157	Beauveria bassiana
298	Metarhizium anisopliae var. majus	814	Beauveria pseudobassiana	1158	Beauveria bassiana
301	Beauveria bassiana	815	Beauveria bassiana	1159	Beauveria bassiana
317	Beauveria bassiana	816	Beauveria bassiana	1160	Beauveria bassiana
318	Beauveria bassiana	817	Metarhizium brunneum	1161	Beauveria bassiana
319	Beauveria bassiana	818	Metarhizium anisopliae sensu lato	1162	Beauveria bassiana
322	Isaria javanica	819	Metarhizium guizhouense	1163	Beauveria bassiana
325	Beauveria bassiana	820	Metarhizium brunneum	1164	Beauveria bassiana
336	Beauveria bassiana	842	Beauveria bassiana	1165	Beauveria bassiana
337	Beauveria bassiana	915	Pandora bluncckii	1167	Beauveria bassiana
340	Beauveria bassiana	917	Pandora bluncckii	1168	Beauveria bassiana
344	Beauveria bassiana	920	Pandora bluncckii	1169	Beauveria bassiana
346	Metarhizium brunneum	928	Beauveria bassiana	1170	Beauveria bassiana
350	Beauveria bassiana	929	Metarhizium anisopliae sensu lato	1171	Beauveria bassiana
353	Beauveria bassiana	930	Beauveria bassiana	1172	Beauveria bassiana
384	Beauveria bassiana	931	Beauveria bassiana	1173	Beauveria bassiana
396	Zoopthora anglica	932	Metarhizium anisopliae sensu lato	1174	Beauveria bassiana
410	Purpureocillium lilacinum	934	Beauveria bassiana	1175	Beauveria bassiana
412	Beauveria bassiana	937	Beauveria bassiana	1176	Beauveria bassiana
413	Beauveria bassiana	938	Beauveria bassiana	1177	Beauveria bassiana
416	Beauveria bassiana	939	Metarhizium anisopliae sensu lato	1178	Beauveria bassiana
433	Beauveria bassiana	941	Beauveria bassiana	1179	Beauveria bassiana
472	Metarhizium brunneum	942	Beauveria bassiana	1180	Beauveria bassiana
504	Beauveria bassiana	943	Beauveria bassiana	1181	Beauveria bassiana
505	Beauveria bassiana	946	Beauveria bassiana	1182	Beauveria bassiana
506	Beauveria bassiana	947	Beauveria bassiana	1183	Beauveria bassiana
507	Beauveria bassiana	948	Beauveria bassiana	1184	Metarhizium flavoviride var. flavoviride
509	Beauveria bassiana	949	Beauveria bassiana	1185	Beauveria bassiana
510	Beauveria bassiana	950	Beauveria bassiana	1186	Beauveria bassiana
534	Beauveria bassiana	951	Beauveria bassiana	1188	Beauveria bassiana
535	Beauveria bassiana	952	Beauveria bassiana	1189	Beauveria bassiana
538	Metarhizium pingshaense	953	Beauveria bassiana	1190	Beauveria bassiana
547	Beauveria sp.	954	Metarhizium anisopliae sensu lato	1191	Beauveria bassiana
617	Beauveria brongniartii	956	Beauveria bassiana	1192	Beauveria bassiana
683	Metarhizium guizhouense	958	Beauveria bassiana	1193	Beauveria bassiana
721	Beauveria bassiana	977	Metarhizium guizhouense	1194	Beauveria bassiana
722	Isaria fumosorosea	978	Metarhizium majus	1280	Metarhizium anisopliae sensu lato
723	Purpureocillium lilacinum	979	Beauveria brongniartii	1298	Metarhizium robertsii
724	Metarhizium robertsii	982	Beauveria bassiana	1306	Beauveria bassiana
725	Metarhizium anisopliae sensu lato	984	Paecilomyces canadensis	1309	Beauveria bassiana
731	Beauveria bassiana	985	Beauveria brongniartii	1310	Fusarium sp.
732	Beauveria bassiana	1016	Beauveria bassiana	1311	Beauveria bassiana
733	Beauveria bassiana	1017	Evlachovaea sp.	1312	Beauveria bassiana
734	Beauveria bassiana	1039	Beauveria bassiana	1313	Beauveria bassiana
735	Beauveria bassiana	1041	Beauveria bassiana	1327	Beauveria sp.
736	Beauveria bassiana	1043	Mixed Culture sp.	1328	Lecanicillium muscarium
738	Beauveria bassiana	1046	Metarhizium robertsii	1329	Aphanocladium album
739	Beauveria bassiana	1056	Metarhizium anisopliae sensu lato	1335	Lecanicillium muscarium
741	Isaria amoenerosea	1060	Beauveria bassiana	1372	Acremonium furcatum
744	Isaria amoenerosea	1061	Beauveria bassiana	1377	Metarhizium anisopliae sensu lato
751	Beauveria bassiana	1066	Metarhizium brunneum	1389	Beauveria bassiana
752	Beauveria bassiana	1067	Beauveria brongniartii	1398	Beauveria bassiana
753	Beauveria bassiana	1068	Beauveria brongniartii	1399	Beauveria bassiana
754	Beauveria bassiana	1069	Beauveria brongniartii	1401	Lecanicillium muscarium
756	Beauveria bassiana	1070	Beauveria brongniartii	1402	Lecanicillium muscarium
757	Beauveria bassiana	1071	Beauveria brongniartii	1403	Lecanicillium muscarium

1424	<i>Polycephalomyces formosus</i>	1710	<i>Beauveria bassiana</i>	2076	<i>Metarhizium anisopliae</i> sensu lato
1431	<i>Beauveria brongniartii</i>	1711	<i>Beauveria bassiana</i>	2077	<i>Metarhizium anisopliae</i> sensu lato
1450	<i>Beauveria bassiana</i>	1712	<i>Beauveria bassiana</i>	2079	<i>Beauveria bassiana</i>
1453	<i>Beauveria bassiana</i>	1713	<i>Beauveria bassiana</i>	2107	<i>Metarhizium brunneum</i>
1454	<i>Beauveria bassiana</i>	1715	<i>Pandora blunckii</i>	2133	<i>Metarhizium flavoviride</i>
1455	<i>Beauveria bassiana</i>	1716	<i>Pandora blunckii</i>	2134	<i>Metarhizium robertsii</i>
1456	<i>Beauveria bassiana</i>	1717	<i>Pandora blunckii</i>	2135	<i>Metarhizium anisopliae</i> sensu lato
1458	<i>Beauveria bassiana</i>	1718	<i>Pandora blunckii</i>	2136	<i>Metarhizium anisopliae</i> sensu lato
1459	<i>Beauveria bassiana</i>	1721	<i>Beauveria bassiana</i>	2137	<i>Metarhizium anisopliae</i> sensu lato
1460	<i>Beauveria bassiana</i>	1722	<i>Beauveria bassiana</i>	2138	<i>Metarhizium anisopliae</i> sensu lato
1461	<i>Beauveria bassiana</i>	1723	<i>Beauveria bassiana</i>	2139	<i>Metarhizium anisopliae</i> sensu lato
1462	<i>Beauveria bassiana</i>	1739	<i>Zoophthora anglica</i>	2151	<i>Metarhizium anisopliae</i> var. <i>majus</i>
1463	<i>Beauveria bassiana</i>	1749	<i>Beauveria bassiana</i>	2156	<i>Metarhizium anisopliae</i> sensu lato
1464	<i>Beauveria bassiana</i>	1750	<i>Beauveria bassiana</i>	2162	<i>Metarhizium pingshaense</i>
1465	<i>Beauveria bassiana</i>	1775	<i>Beauveria bassiana</i>	2163	<i>Metarhizium anisopliae</i> sensu lato
1466	<i>Beauveria bassiana</i>	1776	<i>Beauveria bassiana</i>	2165	<i>Metarhizium anisopliae</i> sensu lato
1467	<i>Beauveria bassiana</i>	1777	<i>Beauveria bassiana</i>	2166	<i>Metarhizium anisopliae</i> sensu lato
1469	<i>Beauveria bassiana</i>	1778	<i>Beauveria bassiana</i>	2167	<i>Metarhizium anisopliae</i> sensu lato
1470	<i>Beauveria bassiana</i>	1779	<i>Beauveria bassiana</i>	2169	<i>Scopulariopsis</i> sp.
1471	<i>Beauveria bassiana</i>	1780	<i>Beauveria bassiana</i>	2173	<i>Aspergillus parasiticus</i>
1472	<i>Beauveria bassiana</i>	1781	<i>Beauveria bassiana</i>	2188	<i>Zoophthora phytonomi</i>
1473	<i>Beauveria bassiana</i>	1811	<i>Beauveria bassiana</i>	2210	<i>Metarhizium brunneum</i>
1475	<i>Beauveria bassiana</i>	1815	<i>Beauveria bassiana</i>	2216	<i>Isaria fumosorosea</i>
1476	<i>Beauveria bassiana</i>	1816	<i>Beauveria bassiana</i>	2217	<i>Isaria fumosorosea</i>
1480	<i>Beauveria bassiana</i>	1817	<i>Beauveria bassiana</i>	2218	<i>Pochonia chlamydosporia</i> var. <i>chlamydosporia</i>
1483	<i>Beauveria bassiana</i>	1818	<i>Beauveria bassiana</i>	2219	<i>Isaria fumosorosea</i>
1491	<i>Beauveria bassiana</i>	1819	<i>Beauveria bassiana</i>	2220	<i>Isaria amoenerosea</i>
1505	<i>Lecanicillium lecanii</i>	1820	<i>Beauveria bassiana</i>	2221	<i>Isaria fumosorosea</i>
1506	<i>Isaria fumosorosea</i>	1821	<i>Beauveria bassiana</i>	2223	<i>Metarhizium anisopliae</i> sensu stricto
1507	<i>Isaria farinosa</i>	1833	<i>Beauveria bassiana</i>	2224	<i>Metarhizium brunneum</i>
1508	<i>Isaria farinosa</i>	1835	<i>Beauveria</i> sp.	2225	Unidentified / <i>Hyphomycetes</i>
1509	<i>Beauveria bassiana</i>	1848	<i>Beauveria bassiana</i>	2231	<i>Metarhizium pingshaense</i>
1510	<i>Beauveria bassiana</i>	1849	<i>Beauveria bassiana</i>	2248	<i>Beauveria bassiana</i>
1511	<i>Beauveria bassiana</i>	1852	<i>Beauveria bassiana</i>	2249	<i>Beauveria bassiana</i>
1515	<i>Beauveria bassiana</i>	1853	<i>Beauveria bassiana</i>	2250	<i>Beauveria bassiana</i>
1518	<i>Beauveria bassiana</i>	1854	<i>Beauveria bassiana</i>	2251	<i>Beauveria caledonica</i>
1519	<i>Beauveria bassiana</i>	1855	<i>Beauveria pseudobassiana</i>	2270	<i>Beauveria bassiana</i>
1559	<i>Beauveria bassiana</i>	1858	<i>Metarhizium majus</i>	2271	<i>Beauveria brongniartii</i>
1560	<i>Beauveria bassiana</i>	1859	<i>Metarhizium majus</i>	2327	<i>Scopulariopsis</i> sp.
1561	<i>Beauveria bassiana</i>	1878	<i>Metarhizium robertsii</i>	2330	<i>Beauveria bassiana</i>
1562	<i>Beauveria bassiana</i>	1885	<i>Metarhizium anisopliae</i> sensu lato	2355	<i>Isaria farinosa</i>
1563	<i>Beauveria bassiana</i>	1897	<i>Metarhizium robertsii</i>	2412	<i>Beauveria</i> sp.
1566	<i>Beauveria bassiana</i>	1901	<i>Metarhizium anisopliae</i> sensu lato	2415	<i>Tilachlidium</i> sp.
1567	<i>Beauveria caledonica</i>	1903	<i>Metarhizium anisopliae</i> sensu lato	2463	<i>Beauveria bassiana</i>
1572	<i>Conidiobolus coronatus</i>	1910	<i>Metarhizium robertsii</i>	2469	<i>Metarhizium robertsii</i>
1573	<i>Conidiobolus coronatus</i>	1914	<i>Metarhizium majus</i>	2505	<i>Zoophthora anglica</i>
1574	<i>Conidiobolus coronatus</i>	1946	<i>Metarhizium majus</i>	2509	<i>Beauveria bassiana</i>
1575	<i>Conidiobolus coronatus</i>	1951	<i>Purpureocillium lilacinum</i>	2511	<i>Beauveria bassiana</i>
1619	<i>Beauveria bassiana</i>	1954	<i>Beauveria bassiana</i>	2512	<i>Beauveria bassiana</i>
1620	<i>Beauveria bassiana</i>	1956	<i>Beauveria bassiana</i>	2513	<i>Metarhizium anisopliae</i> sensu lato
1621	<i>Beauveria bassiana</i>	1957	<i>Isaria farinosa</i>	2514	<i>Metarhizium robertsii</i>
1622	<i>Beauveria bassiana</i>	1958	<i>Metarhizium anisopliae</i> sensu lato	2515	<i>Beauveria bassiana</i>
1623	<i>Beauveria bassiana</i>	1961	<i>Beauveria bassiana</i>	2518	<i>Metarhizium anisopliae</i> sensu stricto
1624	<i>Beauveria bassiana</i>	1966	<i>Beauveria bassiana</i>	2520	<i>Beauveria bassiana</i>
1634	Unidentified sp.	1968	<i>Metarhizium robertsii</i>	2525	<i>Erynia</i> sp.
1647	<i>Beauveria bassiana</i>	1969	<i>Beauveria amorphae</i>	2536	<i>Erynia</i> sp.
1676	<i>Beauveria amorphae</i>	1971	<i>Beauveria bassiana</i>	2537	<i>Erynia</i> sp.
1678	<i>Beauveria bassiana</i>	1975	<i>Beauveria bassiana</i>	2538	<i>Erynia</i> sp.
1679	<i>Beauveria bassiana</i>	1980	<i>Beauveria bassiana</i>	2539	<i>Erynia</i> sp.
1680	<i>Beauveria amorphae</i>	1982	<i>Beauveria bassiana</i>	2547	<i>Metarhizium robertsii</i>
1681	<i>Beauveria</i> sp.	1989	<i>Metarhizium anisopliae</i> sensu lato	2548	<i>Metarhizium anisopliae</i> sensu lato
1682	<i>Beauveria</i> sp.	2010	<i>Beauveria bassiana</i>	2553	<i>Erynia</i> sp.
1683	<i>Beauveria bassiana</i>	2024	<i>Metarhizium flavoviride</i>	2557	<i>Beauveria pseudobassiana</i>
1685	<i>Beauveria sungii</i>	2030	<i>Beauveria bassiana</i>	2559	<i>Beauveria bassiana</i>
1704	<i>Beauveria bassiana</i>	2031	<i>Beauveria bassiana</i>	2568	<i>Fusarium</i> sp.
1705	<i>Beauveria bassiana</i>	2032	<i>Beauveria bassiana</i>	2569	<i>Fusarium</i> sp.
1706	<i>Beauveria bassiana</i>	2033	<i>Beauveria bassiana</i>	2575	<i>Metarhizium robertsii</i>
1707	<i>Beauveria bassiana</i>	2034	<i>Beauveria bassiana</i>	2579	<i>Beauveria bassiana</i>
1708	<i>Beauveria bassiana</i>	2040	<i>Beauveria bassiana</i>	2580	<i>Beauveria bassiana</i>
1709	<i>Beauveria bassiana</i>	2075	<i>Beauveria bassiana</i>		

2625	<i>Beauveria bassiana</i>	3197	<i>Beauveria bassiana</i>	3818	<i>Beauveria bassiana</i>
2626	<i>Beauveria bassiana</i>	3198	<i>Beauveria bassiana</i>	3819	<i>Beauveria bassiana</i>
2635	<i>Metarhizium anisopliae sensu lato</i>	3199	<i>Beauveria bassiana</i>	3821	Unidentified sp.
2638	<i>Beauveria bassiana</i>	3210	<i>Metarhizium pingshaense</i>	3841	Unidentified sp.
2639	<i>Beauveria bassiana</i>	3211	<i>Metarhizium robertsii</i>	3864	<i>Metarhizium brunneum</i>
2642	<i>Beauveria bassiana</i>	3219	<i>Beauveria bassiana</i>	3924	<i>Metarhizium anisopliae sensu stricto</i>
2660	<i>Beauveria brongniartii</i>	3287	<i>Beauveria bassiana</i>	3980	Unidentified sp.
2663	<i>Erynia sp.</i>	3305	<i>Metarhizium anisopliae sensu lato</i>	4001	<i>Beauveria bassiana</i>
2664	<i>Erynia sp.</i>	3306	<i>Metarhizium anisopliae sensu lato</i>	4009	Sterile mycelium
2676	<i>Beauveria bassiana</i>	3308	<i>Metarhizium anisopliae sensu lato</i>	4011	<i>Fusarium sp.</i>
2679	<i>Isaria fumosorosea</i>	3309	<i>Beauveria bassiana</i>	4013	<i>Beauveria bassiana</i>
2685	<i>Beauveria bassiana</i>	3310	<i>Beauveria bassiana</i>	4015	<i>Beauveria bassiana</i>
2686	<i>Beauveria bassiana</i>	3311	<i>Beauveria bassiana</i>	4016	<i>Beauveria bassiana</i>
2687	<i>Beauveria bassiana</i>	3314	<i>Pochonia chlamydosporia</i>	4018	<i>Beauveria bassiana</i>
2688	<i>Beauveria bassiana</i>	3329	<i>Metarhizium anisopliae sensu lato</i>	4019	<i>Beauveria bassiana</i>
2689	<i>Beauveria bassiana</i>	3330	<i>Metarhizium anisopliae sensu lato</i>	4020	<i>Metarhizium brunneum</i>
2690	<i>Beauveria bassiana</i>	3331	<i>Metarhizium anisopliae sensu lato</i>	4021	<i>Beauveria bassiana</i>
2691	<i>Beauveria bassiana</i>	3332	<i>Metarhizium anisopliae sensu lato</i>	4022	<i>Verticillium lecanii</i>
2692	<i>Beauveria bassiana</i>	3333	<i>Metarhizium anisopliae sensu lato</i>	4023	<i>Beauveria brongniartii</i>
2693	<i>Beauveria bassiana</i>	3334	<i>Metarhizium anisopliae sensu lato</i>	4024	<i>Beauveria brongniartii</i>
2694	<i>Beauveria varroae</i>	3335	<i>Metarhizium anisopliae sensu lato</i>	4027	<i>Beauveria sp.</i>
2695	<i>Beauveria bassiana</i>	3336	<i>Metarhizium anisopliae sensu lato</i>	4028	<i>Beauveria bassiana</i>
2832	<i>Lecanicillium sp. 2(?)</i>	3337	<i>Metarhizium anisopliae sensu lato</i>	4029	<i>Isaria farinosa</i>
2915	<i>Stilbella buquetii</i>	3338	<i>Metarhizium anisopliae sensu lato</i>	4031	<i>Beauveria bassiana</i>
2937	<i>Isaria farinosa</i>	3339	<i>Metarhizium anisopliae sensu lato</i>	4032	<i>Beauveria bassiana</i>
2938	<i>Beauveria bassiana</i>	3340	<i>Metarhizium anisopliae sensu lato</i>	4033	<i>Lecanicillium muscarium</i>
2941	<i>Metarhizium anisopliae sensu lato</i>	3342	<i>Zoopthora phytonomi</i>	4034	<i>Beauveria bassiana</i>
2942	<i>Beauveria bassiana</i>	3343	<i>Zoopthora phytonomi</i>	4036	<i>Lecanicillium muscarium</i>
2945	<i>Beauveria bassiana</i>	3344	<i>Zoopthora phytonomi</i>	4037	Unidentified sp.
2946	<i>Beauveria bassiana</i>	3386	<i>Beauveria bassiana</i>	4038	<i>Beauveria bassiana</i>
2950	<i>Penicillium sp.</i>	3388	<i>Metarhizium robertsii</i>	4039	<i>Isaria farinosa</i>
2952	<i>Purpureocillium lilacinum</i>	3389	<i>Metarhizium anisopliae sensu lato</i>	4040	<i>Isaria farinosa</i>
2956	<i>Isaria fumosorosea</i>	3403	<i>Beauveria bassiana</i>	4041	<i>Beauveria bassiana</i>
2958	<i>Isaria amoenerosea</i>	3437	<i>Beauveria bassiana</i>	4043	<i>Isaria farinosa</i>
2959	<i>Isaria amoenerosea</i>	3438	<i>Beauveria bassiana</i>	4044	<i>Isaria farinosa</i>
2960	<i>Isaria amoenerosea</i>	3439	<i>Beauveria bassiana</i>	4045	<i>Isaria farinosa</i>
2961	<i>Beauveria bassiana</i>	3440	<i>Beauveria bassiana</i>	4046	<i>Beauveria bassiana</i>
2981	<i>Metarhizium robertsii</i>	3441	<i>Beauveria bassiana</i>	4047	<i>Verticillium lecanii</i>
2983	<i>Beauveria bassiana</i>	3442	<i>Beauveria bassiana</i>	4048	<i>Verticillium lecanii</i>
2984	<i>Beauveria bassiana</i>	3443	<i>Beauveria bassiana</i>	4049	<i>Beauveria bassiana</i>
2985	<i>Beauveria bassiana</i>	3444	<i>Beauveria bassiana</i>	4050	<i>Lecanicillium longisporum</i>
2986	<i>Beauveria bassiana</i>	3445	<i>Beauveria bassiana</i>	4051	<i>Beauveria bassiana</i>
2987	<i>Beauveria bassiana</i>	3446	<i>Beauveria bassiana</i>	4052	<i>Beauveria bassiana</i>
2988	<i>Beauveria bassiana</i>	3447	<i>Beauveria bassiana</i>	4054	<i>Beauveria bassiana</i>
2989	<i>Beauveria bassiana</i>	3448	<i>Beauveria bassiana</i>	4055	<i>Beauveria bassiana</i>
2990	<i>Beauveria bassiana</i>	3450	<i>Beauveria bassiana</i>	4056	<i>Beauveria bassiana</i>
2991	<i>Beauveria bassiana</i>	3451	<i>Beauveria bassiana</i>	4097	<i>Isaria amoenerosea</i>
2999	Unidentified / Hyphomycetes	3452	<i>Beauveria bassiana</i>	4123	<i>Metarhizium robertsii</i>
3030	<i>Fusarium sp.</i>	3453	<i>Beauveria bassiana</i>	4124	<i>Metarhizium frigidum</i>
3031	<i>Fusarium sp.</i>	3455	<i>Beauveria bassiana</i>	4125	<i>Metarhizium anisopliae sensu lato</i>
3032	<i>Fusarium sp.</i>	3457	<i>Beauveria bassiana</i>	4130	<i>Beauveria bassiana</i>
3035	<i>Pochonia bulbillosa(?)</i>	3471	Unidentified sp.	4131	<i>Metarhizium brunneum</i>
3036	<i>Penicillium sp.</i>	3478	Unidentified sp.	4132	<i>Metarhizium anisopliae sensu lato</i>
3037	<i>Beauveria bassiana</i>	3479	<i>Metarhizium anisopliae sensu lato</i>	4133	<i>Metarhizium anisopliae sensu lato</i>
3040	<i>Beauveria bassiana</i>	3534	<i>Beauveria bassiana</i>	4134	<i>Metarhizium anisopliae sensu lato</i>
3054	<i>Beauveria brongniartii</i>	3603	<i>Metarhizium guizhouense</i>	4135	<i>Beauveria bassiana</i>
3055	<i>Beauveria pseudobassiana</i>	3604	<i>Metarhizium pingshaense</i>	4136	<i>Beauveria bassiana</i>
3056	<i>Metarhizium anisopliae sensu lato</i>	3608	<i>Metarhizium robertsii</i>	4137	<i>Metarhizium anisopliae sensu lato</i>
3057	<i>Metarhizium anisopliae sensu lato</i>	3667	<i>Beauveria bassiana</i>	4138	<i>Metarhizium anisopliae sensu lato</i>
3063	<i>Beauveria pseudobassiana</i>	3713	<i>Metarhizium anisopliae sensu lato</i>	4139	<i>Metarhizium anisopliae sensu lato</i>
3065	<i>Beauveria pseudobassiana</i>	3714	Unidentified sp.	4140	Unidentified sp.
3066	<i>Beauveria pseudobassiana</i>	3715	<i>Verticillium insectorum</i>	4141	<i>Metarhizium anisopliae sensu lato</i>
3070	<i>Beauveria pseudobassiana</i>	3716	<i>Beauveria bassiana</i>	4142	<i>Metarhizium anisopliae sensu lato</i>
3097	<i>Beauveria bassiana</i>	3717	<i>Beauveria bassiana</i>	4149	<i>Beauveria amorphae</i>
3098	<i>Beauveria bassiana</i>	3718	<i>Cordyceps sp.</i>	4228	<i>Metarhizium brunneum</i>
3108	<i>Metarhizium robertsii</i>	3719	Unidentified sp.	4236	<i>Metarhizium anisopliae sensu lato</i>
3111	<i>Beauveria bassiana</i>	3720	<i>Metarhizium anisopliae sensu lato</i>	4239	<i>Metarhizium anisopliae sensu lato</i>
3112	<i>Beauveria bassiana</i>	3721	<i>Metarhizium robertsii</i>	4243	Sterile mycelium
3145	<i>Metarhizium anisopliae var. majus</i>	3722	Unidentified sp.	4274	<i>Beauveria pseudobassiana</i>
3148	<i>Metarhizium anisopliae sensu lato</i>	3724	Unidentified sp.	4290	<i>Metarhizium anisopliae sensu lato</i>

4333	Metarhizium anisopliae sensu lato	4877	Tolypocladium inflatum	5358	Beauveria brongniartii
4334	Metarhizium anisopliae sensu lato	4878	Tolypocladium inflatum	5359	Beauveria brongniartii
4335	Metarhizium anisopliae sensu lato	4879	Tolypocladium inflatum	5360	Beauveria brongniartii
4336	Metarhizium anisopliae sensu lato	4880	Tolypocladium inflatum	5361	Beauveria brongniartii
4337	Metarhizium anisopliae sensu lato	4881	Tolypocladium inflatum	5362	Beauveria brongniartii
4338	Metarhizium anisopliae sensu lato	4882	Tolypocladium inflatum	5363	Beauveria brongniartii
4339	Metarhizium anisopliae sensu lato	4883	Tolypocladium inflatum	5364	Beauveria brongniartii
4340	Metarhizium anisopliae sensu lato	4884	Tolypocladium inflatum	5436	Beauveria bassiana
4341	Metarhizium anisopliae sensu lato	4885	Tolypocladium inflatum	5437	Beauveria bassiana
4342	Metarhizium pingshaense	4886	Tolypocladium inflatum	5438	Beauveria bassiana
4346	Metarhizium anisopliae sensu lato	4887	Tolypocladium inflatum	5439	Beauveria bassiana
4380	Beauveria brongniartii	4888	Tolypocladium inflatum	5440	Beauveria bassiana
4381	Beauveria brongniartii	4889	Tolypocladium inflatum	5441	Beauveria bassiana
4382	Beauveria bassiana	4890	Tolypocladium inflatum	5442	Beauveria bassiana
4384	Beauveria asiatica	4891	Tolypocladium inflatum	5443	Beauveria bassiana
4385	Beauveria brongniartii	4892	Tolypocladium inflatum	5444	Beauveria bassiana
4386	Beauveria brongniartii	4893	Tolypocladium inflatum	5445	Beauveria bassiana
4387	Mixed Culture sp.	4894	Tolypocladium inflatum	5446	Beauveria bassiana
4388	Beauveria brongniartii	4895	Tolypocladium inflatum	5447	Beauveria bassiana
4389	Beauveria brongniartii	4896	Tolypocladium inflatum	5448	Beauveria bassiana
4390	Beauveria sp.	4897	Tolypocladium inflatum	5449	Beauveria bassiana
4391	Beauveria sp.	4898	Tolypocladium inflatum	5450	Beauveria bassiana
4392	Beauveria sp.	4907	Metarhizium anisopliae sensu lato	5451	Beauveria bassiana
4458	Beauveria brongniartii	4908	Metarhizium anisopliae sensu lato	5452	Beauveria bassiana
4465	Beauveria brongniartii	4909	Beauveria sp.	5453	Beauveria bassiana
4466	Beauveria brongniartii	4910	Beauveria sp.	5454	Beauveria bassiana
4467	Beauveria brongniartii	4911	Beauveria sp.	5455	Beauveria bassiana
4468	Beauveria brongniartii	4912	Beauveria sp.	5456	Beauveria bassiana
4469	Beauveria brongniartii	4913	Beauveria sp.	5457	Beauveria bassiana
4470	Beauveria brongniartii	4914	Beauveria sp.	5458	Beauveria bassiana
4471	Beauveria brongniartii	4915	Beauveria sp.	5459	Beauveria bassiana
4472	Beauveria brongniartii	4916	Beauveria sp.	5460	Beauveria bassiana
4473	Beauveria brongniartii	4917	Beauveria sp.	5461	Fusarium sp.
4474	Beauveria asiatica	4918	Beauveria sp.	5465	Beauveria bassiana
4475	Beauveria brongniartii	4933	Beauveria pseudobassiana	5474	Hirsutella fusiformis
4476	Beauveria brongniartii	4973	Beauveria bassiana	5477	Beauveria bassiana
4477	Beauveria brongniartii	4974	Beauveria bassiana	5478	Beauveria bassiana
4478	Beauveria brongniartii	4975	Beauveria bassiana	5479	Beauveria bassiana
4557	Metarhizium anisopliae sensu lato	4990	Beauveria amorpha	5480	Beauveria bassiana
4558	Metarhizium anisopliae sensu lato	4992	Beauveria brongniartii	5481	Beauveria bassiana
4566	Metarhizium majus	4993	Beauveria brongniartii	5482	Beauveria bassiana
4568	Metarhizium anisopliae sensu lato	4994	Beauveria brongniartii	5483	Beauveria bassiana
4572	Metarhizium anisopliae sensu lato	4995	Beauveria brongniartii	5484	Beauveria bassiana
4574	Metarhizium anisopliae sensu lato	5070	Beauveria pseudobassiana	5485	Beauveria bassiana
4582	Metarhizium anisopliae sensu lato	5071	Beauveria bassiana	5486	Beauveria bassiana
4601	Metarhizium majus	5072	Beauveria bassiana	5487	Beauveria bassiana
4604	Metarhizium guizhouense	5073	Isaria farinosa	5488	Beauveria bassiana
4610	Metarhizium pingshaense	5074	Isaria farinosa	5489	Beauveria bassiana
4677	Metarhizium anisopliae sensu lato	5075	Isaria farinosa	5490	Beauveria bassiana
4716	Metarhizium anisopliae sensu lato	5080	Isaria farinosa	5498	Ophiocordyceps aphodii
4719	Metarhizium flavoviride var. flavoviride	5148	Beauveria bassiana	5501	Beauveria bassiana
4720	Metarhizium flavoviride var. flavoviride	5149	Metarhizium robertsii	5533	Beauveria bassiana
4721	Beauveria pseudobassiana	5150	Beauveria bassiana	5534	Beauveria bassiana
4722	Metarhizium anisopliae sensu lato	5184	Paecilomyces sp.	5535	Beauveria bassiana
4777	Metarhizium anisopliae sensu lato	5186	Beauveria sp.	5536	Beauveria bassiana
4778	Metarhizium anisopliae sensu lato	5188	Mixed Culture sp.	5537	Beauveria bassiana
4779	Metarhizium anisopliae sensu lato	5193	Paecilomyces sp.	5553	Beauveria bassiana
4780	Metarhizium anisopliae sensu lato	5195	Beauveria bassiana	5601	Harposporium janus
4798	Beauveria bassiana	5197	Metarhizium pingshaense	5622	Beauveria pseudobassiana
4799	Beauveria bassiana	5198	Metarhizium brunneum	5623	Beauveria bassiana
4819	Metarhizium anisopliae sensu lato	5223	Unidentified / Hyphomycetes	5624	Metarhizium anisopliae sensu lato
4820	Metarhizium anisopliae sensu lato	5224	Unidentified / Hyphomycetes	5625	Metarhizium brunneum
4821	Metarhizium anisopliae sensu lato	5225	Unidentified / Hyphomycetes	5626	Metarhizium brunneum
4822	Metarhizium anisopliae sensu lato	5226	Unidentified / Hyphomycetes	5627	Isaria fumosorosea
4823	Metarhizium anisopliae sensu lato	5227	Unidentified / Hyphomycetes	5664	Synnematium jonesii
4824	Metarhizium anisopliae sensu lato	5286	Beauveria bassiana	5668	Beauveria pseudobassiana
4825	Fusarium sp.	5352	Erynia sp.	5669	Beauveria pseudobassiana
4849	Isaria amoenerosea	5355	Beauveria brongniartii	5670	Beauveria bassiana
4852	Cordyceps sp.	5356	Beauveria brongniartii	5677	Unidentified / Hyphomycetes
4853	Beauveria sp.	5357	Beauveria brongniartii	5678	Beauveria pseudobassiana

5689	<i>Beauveria sungii</i>	6112	<i>Beauveria bassiana</i>	6682	<i>Metarhizium anisopliae</i> sensu lato
5694	<i>Isaria fumosorosea</i>	6113	<i>Beauveria bassiana</i>	6683	<i>Metarhizium anisopliae</i> sensu lato
5695	Unidentified / <i>Hyphomycetes</i>	6120	<i>Metarhizium brunneum</i>	6684	<i>Metarhizium anisopliae</i> sensu lato
5697	<i>Beauveria</i> sp.	6188	<i>Purpureocillium lilacinum</i>	6685	<i>Metarhizium anisopliae</i> sensu lato
5699	<i>Isaria farinosa</i>	6190	<i>Purpureocillium lilacinum</i>	6686	<i>Beauveria bassiana</i>
5729	<i>Candida</i> sp.	6213	<i>Beauveria brongniartii</i>	6689	<i>Beauveria bassiana</i>
5740	<i>Beauveria bassiana</i>	6214	<i>Beauveria brongniartii</i>	6692	<i>Beauveria bassiana</i>
5741	<i>Beauveria bassiana</i>	6215	<i>Beauveria brongniartii</i>	6693	<i>Beauveria bassiana</i>
5742	<i>Beauveria bassiana</i>	6216	<i>Beauveria bassiana</i>	6695	<i>Beauveria bassiana</i>
5743	<i>Beauveria bassiana</i>	6217	<i>Beauveria bassiana</i>	6696	<i>Beauveria bassiana</i>
5744	<i>Beauveria bassiana</i>	6229	<i>Beauveria pseudobassiana</i>	6697	<i>Beauveria bassiana</i>
5745	<i>Beauveria bassiana</i>	6235	<i>Beauveria brongniartii</i>	6721	<i>Beauveria bassiana</i>
5754	<i>Isaria farinosa</i>	6241	<i>Isaria cateniannulata</i>	6730	<i>Isaria fumosorosea</i>
5764	<i>Paraisaria dubia</i>	6243	<i>Isaria cateniannulata</i>	6827	<i>Beauveria amorphosa</i> (?)
5807	<i>Beauveria bassiana</i>	6244	<i>Isaria cateniobliqua</i>	6884	<i>Beauveria bassiana</i>
5810	<i>Batkoa</i> sp.	6387	<i>Beauveria bassiana</i>	6885	<i>Beauveria bassiana</i>
5813	<i>Beauveria bassiana</i>	6388	<i>Metarhizium anisopliae</i> sensu lato	6890	<i>Beauveria bassiana</i> (?)
5831	<i>Beauveria</i> sp.	6389	<i>Metarhizium anisopliae</i> sensu lato	6891	<i>Beauveria bassiana</i> (?)
5833	<i>Beauveria</i> sp.	6390	<i>Beauveria bassiana</i>	6900	<i>Beauveria bassiana</i>
5834	<i>Isaria farinosa</i>	6391	<i>Beauveria bassiana</i>	6901	<i>Metarhizium anisopliae</i> sensu lato
5836	<i>Beauveria bassiana</i>	6392	<i>Metarhizium brunneum</i>	6903	<i>Beauveria bassiana</i>
5837	<i>Metarhizium anisopliae</i> sensu lato	6393	<i>Beauveria bassiana</i>	6986	<i>Beauveria bassiana</i>
5838	<i>Beauveria bassiana</i>	6412	<i>Beauveria brongniartii</i>	6987	<i>Beauveria bassiana</i>
5839	<i>Beauveria bassiana</i>	6454	<i>Aspergillus flavus</i>	6988	<i>Beauveria bassiana</i>
5840	<i>Beauveria bassiana</i>	6469	<i>Aspergillus flavus</i>	7000	<i>Metarhizium anisopliae</i> sensu lato
5841	<i>Metarhizium anisopliae</i> sensu lato	6470	<i>Mucor circinelloides</i>	7001	<i>Metarhizium anisopliae</i> sensu lato
5842	<i>Metarhizium anisopliae</i> sensu lato	6471	<i>Beauveria bassiana</i>	7002	<i>Metarhizium anisopliae</i> sensu lato
5843	<i>Beauveria bassiana</i>	6472	<i>Metarhizium robertsii</i>	7003	<i>Metarhizium anisopliae</i> sensu lato
5844	<i>Isaria fumosorosea</i>	6477	<i>Metarhizium brunneum</i>	7004	<i>Metarhizium anisopliae</i> sensu lato
5845	<i>Isaria fumosorosea</i>	6478	<i>Beauveria bassiana</i>	7005	<i>Metarhizium anisopliae</i> sensu lato
5846	<i>Isaria fumosorosea</i>	6483	<i>Beauveria bassiana</i>	7006	<i>Metarhizium anisopliae</i> sensu lato
5847	<i>Isaria fumosorosea</i>	6484	<i>Verticillium</i> sp.	7007	<i>Metarhizium anisopliae</i> sensu lato
5848	<i>Metarhizium anisopliae</i> sensu lato	6486	<i>Verticillium</i> sp.	7008	<i>Metarhizium anisopliae</i> sensu lato
5849	<i>Verticillium lecanii</i>	6487	<i>Verticillium lecanii</i>	7009	<i>Metarhizium anisopliae</i> sensu lato
5850	<i>Metarhizium anisopliae</i> sensu lato	6488	<i>Isaria farinosa</i>	7048	<i>Aspergillus</i> sp.
5856	<i>Verticillium lecanii</i>	6489	<i>Isaria farinosa</i>	7063	<i>Fusarium</i> sp.
5857	<i>Beauveria bassiana</i>	6491	<i>Isaria farinosa</i>	7119	<i>Isaria javanica</i>
5858	<i>Isaria farinosa</i>	6499	<i>Beauveria bassiana</i>	7152	<i>Beauveria bassiana</i>
5875	<i>Fusarium</i> sp.	6501	<i>Verticillium</i> sp.	7153	<i>Beauveria bassiana</i>
5876	<i>Purpureocillium lilacinum</i>	6515	<i>Aspergillus nidulans</i> (?)	7154	<i>Beauveria bassiana</i>
5877	<i>Purpureocillium lilacinum</i>	6516	<i>Cladosporium sphaerospermum</i>	7155	<i>Beauveria bassiana</i>
5878	<i>Fusarium</i> sp.	6526	<i>Beauveria bassiana</i>	7156	<i>Beauveria bassiana</i>
5879	<i>Fusarium</i> sp.	6527	<i>Beauveria bassiana</i>	7157	<i>Beauveria bassiana</i>
5880	<i>Purpureocillium lilacinum</i>	6528	<i>Beauveria bassiana</i>	7158	<i>Beauveria bassiana</i>
5882	<i>Purpureocillium lilacinum</i>	6529	<i>Beauveria bassiana</i>	7159	<i>Beauveria bassiana</i>
5979	<i>Beauveria bassiana</i>	6530	<i>Beauveria bassiana</i>	7160	<i>Beauveria bassiana</i>
5981	<i>Beauveria bassiana</i>	6531	<i>Beauveria bassiana</i>	7161	<i>Beauveria bassiana</i>
5982	<i>Beauveria bassiana</i>	6532	<i>Beauveria bassiana</i>	7162	<i>Beauveria bassiana</i>
5983	<i>Beauveria bassiana</i>	6545	<i>Verticillium lecanii</i>	7163	<i>Beauveria bassiana</i>
5984	<i>Beauveria bassiana</i>	6546	<i>Metarhizium anisopliae</i> sensu stricto	7164	<i>Beauveria bassiana</i>
5986	<i>Beauveria bassiana</i>	6549	<i>Metarhizium anisopliae</i> sensu lato	7165	<i>Beauveria bassiana</i>
5997	<i>Beauveria bassiana</i>	6551	<i>Metarhizium anisopliae</i> sensu lato	7166	<i>Beauveria bassiana</i>
6055	<i>Beauveria bassiana</i>	6552	<i>Beauveria bassiana</i>	7167	<i>Beauveria bassiana</i>
6057	<i>Beauveria bassiana</i>	6559	<i>Beauveria bassiana</i>	7168	<i>Beauveria bassiana</i>
6058	<i>Beauveria bassiana</i>	6560	<i>Beauveria bassiana</i>	7169	<i>Beauveria bassiana</i>
6059	<i>Beauveria bassiana</i>	6571	<i>Aspergillus</i> sp.	7170	<i>Beauveria bassiana</i>
6061	<i>Beauveria bassiana</i>	6602	<i>Fusarium</i> sp.	7171	<i>Beauveria bassiana</i>
6062	<i>Beauveria bassiana</i>	6669	<i>Beauveria bassiana</i>	7172	<i>Beauveria bassiana</i>
6063	<i>Beauveria bassiana</i>	6670	<i>Metarhizium anisopliae</i> sensu lato	7173	<i>Beauveria bassiana</i>
6064	<i>Beauveria bassiana</i>	6671	<i>Metarhizium anisopliae</i> sensu lato	7174	<i>Beauveria bassiana</i>
6074	<i>Beauveria bassiana</i>	6672	<i>Metarhizium anisopliae</i> sensu lato	7175	<i>Beauveria bassiana</i>
6075	<i>Beauveria bassiana</i>	6673	<i>Metarhizium anisopliae</i> sensu lato	7176	<i>Beauveria bassiana</i>
6077	<i>Beauveria bassiana</i>	6674	<i>Metarhizium anisopliae</i> sensu lato	7177	<i>Beauveria bassiana</i>
6078	<i>Beauveria bassiana</i>	6675	<i>Metarhizium anisopliae</i> sensu lato	7178	<i>Beauveria bassiana</i>
6092	<i>Beauveria bassiana</i>	6676	<i>Beauveria bassiana</i>	7179	<i>Beauveria bassiana</i>
6095	<i>Beauveria bassiana</i>	6677	<i>Metarhizium anisopliae</i> sensu lato	7180	<i>Metarhizium anisopliae</i> sensu lato
6096	<i>Beauveria bassiana</i>	6678	<i>Metarhizium anisopliae</i> sensu lato	7181	<i>Lecanicillium lecanii</i>
6099	<i>Beauveria bassiana</i>	6679	<i>Metarhizium anisopliae</i> sensu lato	7182	<i>Lecanicillium lecanii</i>
6110	<i>Purpureocillium lilacinum</i>	6680	<i>Metarhizium anisopliae</i> sensu lato	7202	<i>Beauveria bassiana</i>
6111	<i>Beauveria bassiana</i>	6681	<i>Beauveria bassiana</i>	7218	<i>Evlachovaea kintrischica</i>

7234	Metarhizium brunneum	7760	Beauveria malawiensis	8115	Lecanicillium lecanii
7241	Beauveria bassiana	7761	Beauveria brongniartii	8116	Beauveria sp.
7244	Beauveria bassiana	7763	Beauveria bassiana	8117	Beauveria sp.
7247	Beauveria bassiana	7764	Beauveria bassiana	8118	Lecanicillium muscarium
7248	Lecanicillium muscarium	7769	Beauveria bassiana	8119	Beauveria sp.
7251	Beauveria bassiana	7773	Beauveria bassiana	8120	Beauveria sp.
7261	Beauveria bassiana	7774	Beauveria bassiana	8121	Beauveria sp.
7264	Beauveria bassiana	7795	Beauveria bassiana	8122	Beauveria sp.
7266	Beauveria bassiana	7805	Engyodontium rectidentatum	8123	Beauveria sp.
7268	Beauveria brongniartii	7812	Tolypocladium cylindrosporum	8124	Beauveria sp.
7270	Beauveria bassiana	7813	Beauveria bassiana	8125	Beauveria sp.
7271	Beauveria bassiana	7814	Metarhizium anisopliae sensu lato	8126	Beauveria sp.
7272	Beauveria bassiana	7815	Metarhizium anisopliae sensu lato	8127	Beauveria sp.
7275	Beauveria bassiana	7816	Metarhizium anisopliae sensu lato	8128	Beauveria sp.
7276	Isaria farinosa	7819	Metarhizium anisopliae sensu lato	8129	Beauveria sp.
7277	Cordyceps scarabaeicola	7824	Metarhizium anisopliae sensu lato	8130	Beauveria sp.
7278	Cordyceps scarabaeicola	7825	Metarhizium anisopliae sensu lato	8131	Fusarium sp.
7279	Beauveria sungii	7826	Metarhizium anisopliae sensu lato	8132	Beauveria sp.
7280	Beauveria sungii	7827	Metarhizium anisopliae sensu lato	8133	Beauveria sp.
7282	Acremonium alternatum	7828	Metarhizium anisopliae sensu lato	8134	Beauveria sp.
7284	Isaria fumosorosea	7829	Metarhizium anisopliae sensu lato	8135	Beauveria sp.
7403	Evlachovaea sp.	7830	Metarhizium anisopliae sensu lato	8136	Beauveria sp.
7404	Beauveria bassiana	7831	Metarhizium anisopliae sensu lato	8137	Beauveria sp.
7410	Metarhizium pingshaense	7832	Metarhizium anisopliae sensu lato	8138	Beauveria sp.
7411	Metarhizium anisopliae sensu lato	7839	Metarhizium anisopliae sensu lato	8139	Beauveria sp.
7412	Metarhizium lepidiotae	7842	Metarhizium anisopliae sensu lato	8140	Beauveria sp.
7417	Metarhizium pingshaense	7843	Metarhizium anisopliae sensu lato	8141	Beauveria sp.
7424	Metarhizium robertsii	7844	Metarhizium anisopliae sensu lato	8142	Isaria fumosorosea
7435	Metarhizium pingshaense	7845	Metarhizium anisopliae sensu lato	8143	Beauveria sp.
7449	Metarhizium robertsii	7846	Metarhizium anisopliae sensu lato	8144	Beauveria sp.
7450	Metarhizium anisopliae sensu stricto	7848	Cordyceps sp.	8145	Beauveria sp.
7451	Metarhizium anisopliae sensu lato	7853	Beauveria bassiana	8146	Beauveria sp.
7452	Metarhizium anisopliae sensu lato	7854	Metarhizium anisopliae sensu lato	8147	Beauveria sp.
7453	Metarhizium anisopliae var. lepidio- tae	7863	Metarhizium anisopliae sensu lato	8148	Beauveria sp.
7456	Tolypocladium cylindrosporum	7864	Metarhizium anisopliae sensu lato	8149	Beauveria sp.
7463	Beauveria sp.	7865	Metarhizium anisopliae sensu lato	8150	Beauveria sp.
7466	Beauveria bassiana	7931	Metarhizium anisopliae sensu lato	8151	Beauveria sp.
7470	Beauveria bassiana	7932	Metarhizium anisopliae sensu lato	8152	Beauveria sp.
7471	Beauveria bassiana	7933	Metarhizium anisopliae sensu lato	8153	Beauveria sp.
7488	Metarhizium lepidiotae	7934	Metarhizium anisopliae sensu lato	8154	Beauveria sp.
7492	Metarhizium anisopliae sensu lato	7935	Metarhizium anisopliae sensu lato	8155	Unidentified / Hyphomycetes
7493	Metarhizium sp.	7936	Metarhizium anisopliae sensu lato	8156	Beauveria sp.
7494	Metarhizium anisopliae sensu lato	7941	Beauveria bassiana	8157	Lecanicillium muscarium
7495	Metarhizium sp.	7972	Beauveria bassiana	8158	Beauveria sp.
7496	Metarhizium anisopliae sensu lato	7978	Beauveria bassiana	8159	Beauveria sp.
7498	Metarhizium anisopliae sensu lato	8024	Beauveria caledonica	8160	Beauveria sp.
7499	Metarhizium anisopliae sensu lato	8037	Beauveria bassiana	8161	Beauveria sp.
7500	Metarhizium anisopliae sensu lato	8038	Beauveria bassiana	8162	Lecanicillium muscarium(?)
7504	Metarhizium anisopliae sensu lato	8048	Lecanicillium muscarium	8163	Lecanicillium muscarium
7505	Metarhizium majus	8049	Lecanicillium muscarium	8164	Beauveria sp.
7516	Cordyceps brongniartii	8050	Lecanicillium muscarium	8165	Lecanicillium muscarium
7517	Cordyceps brongniartii	8051	Lecanicillium muscarium	8166	Beauveria sp.
7524	Metarhizium anisopliae sensu lato	8052	Lecanicillium muscarium	8167	Beauveria sp.
7525	Beauveria bassiana	8053	Lecanicillium muscarium	8168	Beauveria sp.
7526	Beauveria bassiana	8054	Lecanicillium muscarium	8169	Beauveria sp.
7527	Metarhizium anisopliae sensu lato	8055	Lecanicillium pissodis	8170	Beauveria sp.
7528	Beauveria brongniartii	8056	Lecanicillium pissodis	8171	Beauveria sp.
7529	Metarhizium anisopliae sensu lato	8057	Lecanicillium pissodis	8172	Beauveria sp.
7532	Metarhizium anisopliae sensu lato	8058	Evlachovaea kintrischica	8173	Beauveria sp.
7551	Evlachovaea sp.	8065	Beauveria bassiana	8174	Beauveria sp.
7580	Beauveria sp.	8077	Beauveria bassiana	8175	Beauveria sp.
7581	Beauveria bassiana	8078	Beauveria bassiana	8176	Beauveria sp.
7591	Beauveria sp.	8079	Beauveria bassiana	8177	Beauveria sp.
7595	Beauveria sp.	8098	Metarhizium anisopliae sensu lato	8178	Beauveria sp.
7635	Lecanicillium sp.	8099	Metarhizium anisopliae sensu lato	8179	Unidentified / Hyphomycetes
7636	Lecanicillium sp.	8110	Beauveria sp.	8180	Beauveria sp.
7643	Metarhizium sp.	8111	Beauveria sp.	8181	Beauveria sp.
7716	Isaria fumosorosea	8112	Beauveria sp.	8182	Beauveria sp.
7758	Beauveria bassiana	8113	Beauveria sp.	8183	Unidentified / Hyphomycetes
		8114	Lecanicillium muscarium	8184	Unidentified / Hyphomycetes

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8906 Metarhizium anisopliae sensu lato	9483 Lecanicillium fungicola	10446 Beauveria bassiana
8907 Metarhizium anisopliae sensu lato	9491 Clonostachys rosea	10447 Beauveria bassiana
8908 Metarhizium anisopliae sensu lato	9496 Polycephalomycetes sp.	10448 Beauveria bassiana
8909 Metarhizium anisopliae sensu lato	9497 Polycephalomycetes sp.	10449 Beauveria bassiana
8910 Metarhizium anisopliae sensu lato	9502 Sporothrix insectorum	10450 Beauveria bassiana
8911 Metarhizium anisopliae sensu lato	9509 Isaria coleopterorum	10451 Beauveria bassiana
8912 Metarhizium anisopliae sensu lato	9511 Isaria farinosa	10452 Beauveria bassiana
8913 Metarhizium anisopliae sensu lato	9516 Isaria farinosa	10453 Beauveria bassiana
8914 Metarhizium anisopliae sensu lato	9519 Isaria sp.	10454 Beauveria bassiana
8915 Metarhizium anisopliae sensu lato	9521 Isaria fumosorosea	10455 Beauveria bassiana
8916 Metarhizium anisopliae sensu lato	9524 Purpureocillium lilacinum	10456 Beauveria bassiana
8917 Isaria farinosa	9602 Isaria fumosorosea	10457 Beauveria bassiana
8918 Purpureocillium lilacinum	9944 Isaria farinosa	10458 Beauveria bassiana
8919 Purpureocillium lilacinum	9945 Isaria farinosa	10459 Beauveria bassiana
8920 Purpureocillium lilacinum	10132 Tilachlidium sp.	10460 Beauveria bassiana
8921 Purpureocillium lilacinum	10347 Beauveria bassiana	10461 Beauveria bassiana
8922 Purpureocillium lilacinum	10350 Beauveria bassiana	10462 Beauveria bassiana
8923 Lecanicillium muscarium	10393 Beauveria bassiana	10463 Beauveria bassiana
8941 Metarhizium anisopliae sensu lato	10394 Beauveria bassiana	10464 Beauveria bassiana
8942 Metarhizium anisopliae sensu lato	10395 Beauveria bassiana	10465 Beauveria bassiana
8943 Metarhizium anisopliae sensu lato	10396 Beauveria bassiana	10466 Beauveria bassiana
8944 Metarhizium anisopliae sensu lato	10397 Beauveria bassiana	10467 Beauveria bassiana
8945 Metarhizium anisopliae sensu lato	10398 Beauveria bassiana	10468 Beauveria bassiana
8946 Metarhizium anisopliae sensu lato	10399 Beauveria bassiana	10469 Metarhizium anisopliae sensu lato
8947 Metarhizium anisopliae sensu lato	10400 Beauveria bassiana	10471 Beauveria bassiana
8948 Metarhizium anisopliae sensu lato	10401 Beauveria bassiana	10472 Metarhizium anisopliae sensu stricto
8949 Metarhizium anisopliae sensu lato	10402 Beauveria bassiana	10475 Metarhizium anisopliae sensu stricto
8950 Metarhizium anisopliae sensu lato	10403 Beauveria bassiana	10476 Metarhizium anisopliae sensu stricto
8951 Metarhizium anisopliae sensu lato	10404 Beauveria bassiana	11652 Scopulariopsis sp.
8952 Metarhizium anisopliae sensu lato	10405 Beauveria bassiana	11660 Beauveria bassiana
8953 Metarhizium anisopliae sensu lato	10406 Beauveria bassiana	11666 Unidentified / Hyphomycetes
8954 Metarhizium anisopliae sensu lato	10407 Beauveria bassiana	11668 Metarhizium sp.
8955 Metarhizium anisopliae sensu lato	10408 Beauveria bassiana	11669 Metarhizium sp.
8998 Beauveria bassiana	10409 Beauveria bassiana	11670 Fusarium sp.
9184 Beauveria bassiana	10410 Beauveria bassiana	11671 Fusarium sp.
9217 Metarhizium anisopliae sensu lato	10411 Beauveria bassiana	11672 Fusarium sp.
9218 Metarhizium anisopliae sensu lato	10412 Beauveria bassiana	11673 Fusarium sp.
9235 Metarhizium anisopliae sensu lato	10413 Beauveria bassiana	11674 Fusarium sp.
9236 Metarhizium anisopliae sensu lato	10414 Beauveria bassiana	11675 Fusarium sp.
9267 Lecanicillium muscarium	10415 Beauveria bassiana	11677 Fusarium sp.
9268 Lecanicillium muscarium	10416 Beauveria bassiana	11678 Clonostachys rosea
9269 Isaria farinosa	10417 Beauveria bassiana	11679 Fusarium sp.
9270 Isaria farinosa	10418 Beauveria bassiana	11680 Fusarium sp.
9271 Beauveria bassiana(?)	10419 Beauveria bassiana	11682 Clonostachys rosea
9272 Beauveria sp.	10420 Beauveria bassiana	11684 Fusarium sp.
9273 Fusarium sp.	10421 Beauveria bassiana	11685 Metarhizium sp.
9274 Fusarium sp.	10422 Beauveria bassiana	11686 Metarhizium sp.
9275 Isaria farinosa	10423 Beauveria bassiana	11687 Clonostachys rosea
9276 Isaria farinosa	10424 Beauveria bassiana	11718 Mixed Culture sp.
9277 Isaria farinosa	10425 Beauveria bassiana	11741 Beauveria lii
9278 Isaria farinosa	10426 Beauveria bassiana	11799 Lecanicillium nr. aranearum
9297 Beauveria bassiana	10427 Beauveria bassiana	11803 Lecanicillium muscarium
9298 Beauveria bassiana	10428 Beauveria bassiana	11805 Lecanicillium evansii(?)
9299 Beauveria bassiana	10429 Beauveria bassiana	11811 Lecanicillium nr. aranearum
9300 Beauveria bassiana	10430 Beauveria bassiana	11819 Hirsutella thompsonii
9301 Beauveria bassiana	10431 Beauveria bassiana	11827 Isaria farinosa
9302 Beauveria bassiana	10432 Beauveria bassiana	11830 Isaria farinosa
9371 Purpureocillium lilacinum	10433 Beauveria bassiana	11831 Isaria farinosa
9372 Metarhizium anisopliae sensu lato	10434 Beauveria bassiana	11836 Paecilomyces carneus
9373 Metarhizium anisopliae sensu lato	10435 Beauveria bassiana	11844 Beauveria bassiana
9374 Metarhizium anisopliae sensu lato	10436 Beauveria bassiana	11849 Metarhizium sp.
9381 Aspergillus flavus	10437 Beauveria bassiana	11850 Metarhizium anisopliae sensu lato
9441 Beauveria bassiana	10438 Beauveria bassiana	11878 Beauveria bassiana
9442 Beauveria bassiana	10439 Beauveria bassiana	11945 Metarhizium anisopliae sensu lato
9444 Beauveria bassiana	10440 Beauveria bassiana	11946 Metarhizium anisopliae sensu lato
9449 Beauveria bassiana	10441 Beauveria bassiana	11947 Metarhizium anisopliae sensu lato
9452 Beauveria brongniartii	10442 Beauveria bassiana	11951 Metarhizium anisopliae sensu lato
9459 Lecanicillium sp.	10443 Beauveria bassiana	
9460 Lecanicillium nr. aranearum	10444 Beauveria bassiana	
9479 Simplicillium lamellicola	10445 Beauveria bassiana	