

**2019
NPDRS New and Emerging Diseases**

PI	Location	CRIS Project	Title
Adkins, S.	Ft. Pierce, FL	6034-22000-042-00D	Tomato resistance-breaking tospoviruses
Arias, R.	Dawson, Ga	6044-21000-004-00D	Sequencing and genome annotation of <i>Thecaphora frezii</i> and analysis of its genetic diversity
Bowden, B.	Castroville, TX	3020-21000-011-00D	Breeding resistant wheat varieties to stem rust using marker-assisted selection
Chamberlin, K.	Stillwater, OK	3072-21220-008-00D	Breeding for Resistance to Peanut Smut
CIMMYT	Texcoco, Mexico	0500-00082-001-03S	Advance research of wheat stem rust race group Ug99
Crouch, J.	Beltsville, MD	8042-22000-298-00D	Diversity of the Select Agents causing brown stripe downy mildew, Philippine downy mildew and related pathogens causing downy mildews of corn, sorghum and other grasses.
Dunlap, C.	Peoria, IL	5010-22410-019-00D	Novel approaches to controlling Laurel and Fusarium wilt in avocados
Hartman, G.	Urbana, IL	5012-22000-022-00D	Evaluation of Soybean Genotypes for Resistance to Red Leaf Blotch
Hinze, L.	College Station, TX	3091-21000-041-00D	Developing FOV4 resistance in cotton using the Cotton Winter Nursery and genomic approaches.
Jarret, R.	Griffin, GA	6046-21000-012-00D	Screening the USDA/ARS Collection of <i>Capsicum</i> Germplasm for the Presence of <i>Potato spindle tuber viroid</i> (PSTVd) and Other Pospiviroids
Jin, Y.	St. Paul, MN	5062-21220-023-00D	Support Ug99 surveillance: monitoring potential incursions of foreign stem rust races in sentinel plots in southern US
Jin, Y.	St. Paul, MN	5062-21220-023-00D	Survey of rust infections on native and re-emerged barberries in order to determine the role of barberry in rust pathogen variations and disease epidemiology in the US
Jin, Y.	St. Paul, MN	5062-21220-023-00D	Saturation mapping of chromosome 6A resistance QTL
Kianian, S.	St. Paul, MN	5062-21220-023-00D	Identifying and mapping adult plant resistance of oats to oat crown rust.

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Kianian, S.	St. Paul, MN	5062-21220-023-00D	Oat crown rust
Ling, K-S.	Charleston, SC	6080-22000-028-00D	Detection, disinfection and genetic resistance to Tomato brown rugose fruit virus, an emerging disease on tomato in the U.S.
Marshall, D.	Raleigh, NC	6070-22000-018-00D	Stacking Ug99 Stem Rust Resistance with Other Resistances in Wheat
Peterson, G.	Ft. Detrick, MD	8044-22000-046-00D	Bolivian Field Evaluation of U.S. and Select Wheat Germplasm for Resistance to Wheat Blast
Rouse, M.	St. Paul, MN	5062-21220-023-00D	Genotyping of critical samples of wheat stem rust pathogen (<i>Puccinia graminis</i> f. sp. <i>tritici</i>) to monitor new or emerging strains that threaten U.S wheat production
Rutter, W.	Charleston, SC	6080-22000-029-00D	Developing Resources to Manage the Exotic Root-Knot Nematode <i>Meloidogyne enterolobii</i>
Szabo, L.	St. Paul, MN	5062-21220-023-00D	Develop molecular tools for the identification of rust pathogens of barberry
Szabo, L.	St. Paul, MN	5062-21220-023-00D	Support off-site back-up of critical stem rust fungal isolates
Scheffler, J.	Stoneville, MS	6066-21000-052-00D	Combating an emerging virus threat for cotton resistance traits
Wang, X.	College Station, TX	3091-21000-039-00D	Improve diagnosis of pecan leaf scorch with immunomagnetic bacterial enrichment