
IR-4 BIOPESTICIDE PROGRAM

IR-4 Biopesticide Research Program: Projects for 2002

The IR-4 Project became involved with biopesticides in the 1970's with work to expand the registration of *Bacillus thuringiensis* (Bt) products. Increasing emphasis has been placed on biopesticides and since 1995, the IR-4 Biopesticide Research Program has funded over \$1.8 million in competitive grants supporting research and development for new biopesticide products. Eight early stage and thirty advanced stage biopesticide proposals will be funded for 2002.

The IR-4 Biopesticide Research Program is now under the direction of Dr. Michael Braverman. For more information on the biopesticide grants program or the proposals listed below, contact him at IR-4 Headquarters, braverman@aesop.rutgers.edu or 732-932-9575 x610.

Early Stage Proposals

- Management of Root-Knot Nematode Diseases in Tomato, Cucumber, and Pepper under Field Conditions with a Biological Stimulant ACE. M.S. Reddy, Auburn University
- Evaluation of BioYield for Induced Systemic Resistance Against Foliar Pathogens of Watermelon and Cantaloupe. M.S. Reddy, Auburn University
- Evaluation of BioYield for Plant Growth Promotion and Disease Control in Various Ornamental Crops. M.S. Reddy, Auburn University
- Integration of Solid Matrix Priming and Plant Growth Promoting Rhizobacteria to Improve Germination, Early Plant Development and Control of Damping-off Diseases in Corn in Cold Soils. M.S. Reddy, Auburn University
- Lactosan Fungicidal Efficacy on Grapes and Blueberries. Gary Pavlis, Rutgers University
- Management of oriental beetle, *Exomala orientalis* (Waterhouse) (Coleoptera: Scarabaeidae) by Pheromone-mediated Disruption in Multiple Crops. S. Polavarapu, Rutgers University
- Efficacy of *Trichoderma hamatum* T10 for Control of Strawberry Black Root Rot. A. Schilder, Michigan State University
- Efficacy Studies to Support Registration of Super Fluid Extracted Sagebrush or as an Artificial Mixture Simulating the Natural Fumigant for Organic Product Markets. L. Mason, Purdue University

Advanced Stage Proposals

- Milsana for Control of Powdery Mildew of Roses. S. Tjosvold, University of California
- Field Evaluation of a Pollinator-delivered Biological Control Against Mummy Berry Disease of Blueberry. H. Scherm, University of Georgia.
- Milsana (New Calcium Nitrate Formulation) on Peppers for Powdery Mildew Control. N. Shamiyeh, University of Tennessee
- Milsana (New Calcium Nitrate Formulation) on Squash and/or Cucumbers for Powdery Mildew Control. N. Shamiyeh, University of Tennessee
- Integration of Biocontrol Measures for Management of Peach Rusty Spot. N. Lalancette, Rutgers University
- Greenhouse Evaluation of Biopesticides for Control of *Phytophthora* Diseases of Vegetables and Ornamentals. E. Roskopf, USDA
- Field Testing of BioPhos as a Component in an Integrated Pest Management Strategy for Fresh Market Tomato. E. Roskopf, USDA

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- Efficacy and Health Effects of Formic Acid MiteAway Pads on Parasitic Mites in Honey Bees. N. Medhat, Rutgers University
- Evaluation of a Bio-herbicide for *Stevia rebaudiana* Bertoni. K. Morris and D. Hulst, Super Sweet Farms, LLC
- Potential for Management of Sclerotinia Blight with the Biological Control Agent *Coniothyrium minitans* (Contans). D. Partridge and J. Bailey, N.C. State University.
- Biological Control of *Sclerotinia sclerotiorum* Using Contans, a Formulation of *Coniothyrium minitans*. H. Dillard, Cornell University
- Evaluation of AtEze on Transplant Quality, Disease Suppression and Yield on Field Grown Fresh Market Tomatoes and Bell Peppers in Southwest Florida. P. Roberts, University of Florida
- AuxiGro on Broccoli. E. Hale, Hale Research and Environmental Consulting
- Serenade for Control of Mummy Berry Disease in Blueberries. A. Schilder, Michigan State University
- Serenade for Control of Fruit Rot in Cranberries. A. Schilder, Michigan State University
- Plantshield for Control of Black Root Rot in Strawberries. A. Schilder, Michigan State University
- Mycostop for Control of Black Root Rot in Strawberries. A. Schilder, Michigan State University
- Primastop for Control of Black Root Rot in Strawberries. A. Schilder, Michigan State University
- Mating Disruption of Codling Moth and Oriental Fruit Moth in Apple Using Isomate CM/OFM Hand Applied Dispenser Technology. L. Gut, Michigan State University
- FNX-100(Dipotassium Phosphate & Dipotassium Phosphonate) Natural Compound. S. Nameth, Ohio State University
- Disease Control in Ornamental Crops with Biopesticides and Fungicides. M. Benson, N.C. State University
- Evaluation Of Biologically Based and Chemically Based Strategies to Reduce Root Rot of Strawberry Plug Plants. F. Louws, N.C. State University
- Evaluation of Contans for Control of Sclerotinia Leaf Drop of Lettuce. M. Matheron, University of Arizona
- Evaluation of Milsana for Control of Powdery Mildew of Lettuce. M. Matheron, University of Arizona
- Evaluation of Milsana for Control of Powdery Mildew of Cantaloupe. M. Matheron, University of Arizona
- Serenade AQ on Bean Rust. B. Shamiyeh, University of Tennessee
- Serenade WP on Spinach White Rust. F. Dainello, Texas A&M University
- Serenade WP on Alternaria and Downy Mildew of Turnip Greens. S. Johnston, Rutgers
- Serenade WP on Alternaria Leaf Spot in Cabbage. S. Johnston, Rutgers
- Mating Disruption of Codling Moth in Apple Using Microencapsulated Sprayable Pheromone. L. Gut, Michigan State

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