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#### **Area of Research:**

- Plant Pathology
- Integrated Pest Management (IPM)
- Phytobiomes
- Plant Biosecurity
- Urban Agriculture
- Forest Health Protection

**Course/s Taught:** General Plant Pathology, Agricultural Biosecurity, Ecology of Soilborne Plant Pathogens, Major Crops of Mississippi, Forest Health Management, Vegetable Crop production, Crop Improvement and Seed Production, Special Problem Forage Production, Special Problems Fruit and Vegetable Production

**Appointment:** Research, Teaching and Extension

#### **Publications:**

1. Preuett, J.A., Collins, D.J, Luster, D.G., and Widmer, T.L 2016. The Effects of Salinity on *Phytophthora ramorum* Viability and Infectivity. *Fungal Ecology* 23: 123-130.
2. Monica L. Elliott, Alissa B. Kriss, Daniel J. Collins, Tim Durham, Eric W. Honeycutt, Jean Q. Liu, Kevin Ong, Kari A. Peter, Luisa Santamaria. 2016. Demonstration of Plant Pathogen Dispersal without Using Live Plants or Pathogens. *The Plant Health Instructor*. DOI: 10.1094/PHI-T-2016-0422-01.
3. Collins, D. J., Frederick, L. Warren, H. L., Rossman, A., and Dominick, S. 2014. Contributions of Dr. George Washington Carver to Global Food Security: Historical Reflections of Dr. Carver's Fungal Plant Disease Survey. *American Phytopathological Society*, Feature Article [www.apsnet.org](http://www.apsnet.org)

4. Preuett, J. A, Collins, D. J Widmer. T. L, and. Luster D. G. 2013 Screening Gulf Coast forest species for susceptibility to *Phytophthora ramorum*. Online. Plant Health Progress doi. 1094/PHP-2013-0730-01-RS.
5. Collins, D. J. 2007. Biotic and Abiotic Stressors of the Urban Forest. Journal of Horticultural Sciences and Biotechnology 6:823.
6. Stevens, C., V, A. Khan, Rodriguez-Kabana, Ploper, L.D., Backman, P.A., Collins, D.J., Brown, J.E., Wilson, M.A., and Igwegbe, E.C.K. 2003. Integration of soil solarization with chemicals, biological, and cultural control for the management of soilborne diseases of vegetables. Plant and Soil: Plant and Soil: 253:493-506
7. Brown, J. E, Lu, T.Y., Stevens, C., Khan, V.A., Lu, J.Y., Wilson, C.L., Collins, D.J. Wilson, M.A., Igwegbe, E.C.K, Chalutz, E., and Dorby, S. 2001. The effect of low dose ultraviolet light-C seed treatment on induced resistance in cabbage to black rot (*Xanthomonas campestris* pv. *campestris*). Crop Protection 20:873-883
8. Mwesigwa, J., Collins, D. J., and Volkov, G. 2000. Electrochemical signaling in green plants: effects of 2,4-dinitrophenol on variation and action potential in soybean. Bioelectrochemistry 51:201-205
9. Volkov, A., Collins, D. J., and Mwesigwa, J. 2000. Plant electrophysiology: pentachlorophenol induces fast action potential in soybean. Plant Science 153:185-190.
10. Khan, V. A., Stevens, C., Wilson, M., Brown, J., Collins, D. J., Lu, J., and Rhoden, E. G. 2000. Evidence of rhizobacteria changes associated with the increased growth response of vegetables grown in agrimulch systems. Journal of Vegetable Crop Production. Vol. 6 (1) 53-73.
11. Stevens, C. Khan, V., Wilson, M. A., Brown, J. A., and Collins, D. J. 1999. Use of thermofilm-IR single layer and double layer soil solarization to improve solar heating in a cloudy climate. Plasticulture 118:20-34.
12. Szukala, Jerzy, Daniel Collins, Wayne Reeves. 1997. Influence of phosphorus level in soil and in seedson infestation of white lupin caused by *Pleiochatea setosa* (in Polish). Progress in Plant Protection/Postepy W Ochronie Roslin Vol. 37 (2):206-209, Poznan 1997.
13. Chen, C., Collins, D. J., and Morgan-Jones, G. 1996. Fungi Associated with root rot of winter wheat in Alabama. Journal of Phytopathology 144:193-96.
14. van Santen, E. and Collins, D. J. 1991. Genetic diversity in tall fescue ecotypes from Alabama I. maturity, morphological traits, and disease reaction. Plant Breeding 107:210-217.
15. Papavizas, G. C., and Collins, D. J. 1990. Influence of *Gliocladium virens* on germination and infectivity of sclerotia of *Sclerotium rolfsii*. Phytopathology 80:627-630.