

Bonnie H. Ownley, Ph.D.
Professor and Research Plant Pathologist

Department of Entomology and Plant Pathology
2505 E.J. Chapman Drive
370 Plant Biotechnology Building
Knoxville, TN 37996-4560

Phone: 865-974-0219
Fax: 865-974-4744
E-mail: bownley@utk.edu

EDUCATION

- 1987 Doctor of Philosophy - Plant Pathology, minor in Soil Science. North Carolina State University, Raleigh, NC
1983 Master of Science - Microbiology. Auburn University, Auburn, AL
1979 Bachelor of Science - Biology. The University of North Carolina at Chapel Hill, NC
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PROFESSIONAL EXPERIENCE

- 2011 – Present Professor – Plant Pathology
Department of Entomology and Plant Pathology, The University of Tennessee, Knoxville, TN. Research responsibilities include studies on the biological and cultural control of plant diseases caused by soilborne plant pathogens, etiology of plant diseases, and microbial ecology of beneficial and disease-causing microorganisms associated with plants. Current teaching responsibilities include graduate courses in Biological Control, Mycology, and Soilborne Plant Pathogens.
- 1998 - 2011 Associate Professor – Department of Entomology and Plant Pathology, The University of Tennessee, Knoxville, TN
- 1992 - 1998 Assistant Professor – Department of Entomology and Plant Pathology, The University of Tennessee, Knoxville, TN
- 1992 Visiting Plant Pathologist - Plant Pathology Department, Washington State University, Pullman, WA.
- 1988 - 1992 Postdoctoral Research Fellow. U.S. Department of Agriculture, Agricultural Research Service, Root Disease and Biological Control Research Unit, Pullman, WA.
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HONORS, AWARDS, RECOGNITION FOR SCHOLARSHIP AND PROFESSIONAL ACTIVITY

- 2014 William T. Miles, M.D. Memorial Award for Community Service, in recognition of significant contribution and services to the Knoxville community. University of Tennessee Institute of Agriculture, Aug 01
- 2013 Trefoil Award for Outstanding Volunteer Service in 2012, in recognition for leadership with the Gadget Girls STEM program; award given by the Girl Scout Council of the

Southern Appalachians

- 2012 Selected for LEAD-21 Leadership Development Training
- 2011 Dr. Charles D. Pless Award, Department of Entomology and Plant Pathology, in recognition for demonstrating leadership in the department through teamwork, dedication, and collegiality
- 2010 Gamma Sigma Delta, Excellence in Teaching Award, UTK Chapter, Nov 16
- 2010 Top Cited Paper for 2008-2010 in *Fungal Ecology* (Vega, FE, MS Goettel, M Blackwell, D Chandler, MA Jackson, S Keller, M Koike, NK Maniania, A Monzón, BH Ownley, JK Pell, DEN Rangel, and HE Roy. 2009. Fungal entomopathogens: new insights on their ecology. *Fungal Ecol.* 2:149-159).
- 2007 Women of Achievement Award in recognition of extraordinary accomplishments or contributions significantly improving the status of women within the University community, presented by the Chancellor and the Commission for Women, at the Annual Chancellor's Award Banquet, University of Tennessee, Apr 11
- 2007 Appreciation Award for recognition of Workshops in Biotechnology, Genetics, and Aquaculture for middle and secondary school teachers during 2004-2007, presented by the East Tennessee Science Partnership (Tennessee Department of Education Math and Science Partnership Program), presented at the annual meeting of the East Tennessee Science Partnership, Feb 28
- 2006 Marian Moffett 'Unsung Hero' Award, presented by the Chancellor, University of Tennessee, and the Commission for Women
- 2005 Recognition of Outstanding Services as Senior Editor of *Phytopathology* for the American Phytopathological Society
- 2004 Selected for the ESCOP/ACOP Leadership Development Program Class 13
- 2004 Dr. Charles D. Pless Award, Department of Entomology and Plant Pathology, in recognition for demonstrating leadership in the department through teamwork, dedication, and collegiality
- 2001 President, American Phytopathological Society, Southern Division
- 2001 President, Gamma Sigma Delta President, UTK Chapter
- 1996 President, Sigma Xi, UTK Chapter
- 1996 Recognition of Outstanding Services as Associate Editor of *Phytopathology* for the American Phytopathological Society
- 1992 U.S. Dept. of Agriculture, Agricultural Research Service Certificate of Merit for Innovative Methods for Data Analysis by the Research Unit, Representing a Highly Significant Improvement that has affected the Function of the Entire Unit, cash award
- 1987 U.S. Dept. of Agriculture, Agricultural Research Service Postdoctoral Research Fellow
- 1987 Sigma Xi Scientific Research Society

- 1986 Graduate Student Paper Research Award – first place, American Phytopathological Society (Southern Division)
- 1983 Phi Kappa Phi Honor Society
- 1982 Gamma Sigma Delta Agricultural Honor Society
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TEACHING ACTIVITIES

Courses Taught and Guest Lectures

Bacterial Plant Diseases: (EPP 514) (4 Credit hours 1995-2001; 2 Credit hours 2005-2008; 3 Credit hours 2009-2012).

- Graduate course offered to M.S. and Ph.D. students
- Core course requirement for plant pathology M.S. graduate students
- EPP 514 was taught during the following spring semesters: 1995, 1997, 1999, 2001, 2003, 2005, 2008, 2010, and 2012
- I developed this course and have been the only instructor
- The course has had a web presence through Online@UT since 2001.

Independent Study Entomology and Plant Pathology: (EPP 493) (1-3 Credit hours)

- This course is for research projects for undergraduate students. I have mentored several undergraduate research projects on topics in plant pathology/microbiology.

Mycology: includes laboratory (EPP 505) (3 Credit hours)

- Graduate course offered to M.S. and Ph.D. students
- Core course requirement for plant pathology M.S. graduate students
- EPP 505 was taught in Fall semester of 2008, 2010, 2012 and 2014; in 2008 and 2010, the course was team-taught with R.N. Trigiano
- I developed a web presence for this course through Online@UT. Dr. Trigiano and I developed six web-based learning modules, which are focused on major groups of fungi for use in this course. In addition to lectures, the students work through the modules independently and take online practice tests to reinforce the lecture material. Students have been very complimentary of the mycology modules as teaching tools.

Seminar: (EPP 541 and EPP 640) (1 Credit hour)

- Graduate seminar course managed by a three-person committee; chair of the committee makes the final decision on grades and discusses strengths and weaknesses of the presentation with the student
- All graduate students in EPP are required to attend; M.S. students (EPP 541) are required to give two seminars and Ph.D. students (EPP 640) are required to give three
- I taught EPP 541 during the following semesters: Summer 1996, Fall 1996, Spring 1997, Fall 2003, Spring 2004, Summer 2004, Fall 2004 (Chair), and Spring 2005 (Chair)
- I taught EPP 640 in Spring 2005 (Chair)

Soilborne Plant Pathogens: (EPP 512 / 612) (3 Credit hours)

- EPP 512 is a graduate course offered to M.S. students only
- EPP 612 is a graduate course offered to Doctoral students only
- EPP 512 was taught in Fall semester of 1993, 1995, 1998, 2000, 2002, 2004, 2006, 2008, 2010, and 2013
- EPP 612 was taught in Fall semester of 2004 and 2010, but was combined with EPP 512 in 2013.
- EPP 512 was team-taught (with Dr. M. Windham) for the first year (1993), after which I revised the course significantly and have been the only instructor
- EPP 512 has had a web presence through Blackboard Online@UT since 2000

Special Problems in Plant Pathology (EPP 532) (1-2 Credit hours)

- This course has been taken by several M.S. students working on independent research projects that differed from their thesis research
- I taught EPP 532 in Summer 1995 and 1996, Fall 1996, 1997, Summer 1998, Fall 2004, Spring 2005, Summer 2009, Fall 2009 and 2012, and Summer 2014

Teaching Internship in Agriculture (AGR 512) (1 Credit hour)

- This course has been taken by M.S. students who assisted with preparing laboratory and educational materials for EPP 514
- Students participated in AGR 512 in Spring 1995, Spring 1997, and Fall 2000

Advanced Topics in Plant Pathology (EPP 604) (2 Credit hours)

- This course was offered to Ph.D. students engaged in special topic research projects
- It was taught in Fall, 2004

Guest Lectures:

- *Managing Plant Pathogens in Organic Systems*. Lecture in PSLS 515 (Agroecology): Spring 2012
- *Master and Slave: Agrobacterium tumefaciens and transgenic plants*. Lecture in EPP 201 (Impact of Insects and Plant Diseases on Human Societies): Fall semester 2004-2014
- *FBI's Ten Most Wanted Plant Pathogens*. Lecture in EPP 201: Fall semester 2004-2007
- *Bacterial Plant Pathogens*. Lectures in EPP 313 (Plant Pathology); Fall 1998 and Fall 2000
- *Academic Integrity*. Lecture in EPP 541, Graduate Seminar; Fall 1996
- *Biological Control of Plant Pathogens*. Lectures in PSS 411 (Soil Microbiology); Fall 1994

Educational Workshop Presentations

Presentations on Teaching to Peers

1. Ownley, B.H. 2000. Critical thinking in large classrooms. Presentation in a CASNR, UTIA Workshop on 'Critical Thinking'; presented information to faculty from the 1999 Southern Regional Teaching Improvement Workshop. Knoxville, TN.
2. Ownley, B.H., and D.S. Seth. 2000. Innovations in Teaching - Development of an on-line course in plant pathology. Presentation to the CASNR Ag Alumni Council, Knoxville, TN.

Workshops on Biotechnology/ Molecular Biology/ Genetics to Middle and High School Teachers – included lectures and hands-on laboratory exercises; funded by grants received

1. Ownley, B.H., and R.N. Trigiano. 2006. *Teaching Biotechnology and Molecular Biology in 8 -12 Grade Classrooms*; funded by the Tennessee Higher Education Commission, Improving Teacher Quality Grant Program; Audience: 10 High School and Middle School Science Teachers (impacted 1,250 students); Duration: 3 days; Location: Jackson State Community College, Jackson, TN.
2. Ownley, B.H., and R.N. Trigiano. 2006. *Teaching Biotechnology and Molecular Biology in 8 -12 Grade Classrooms*; funded by the Tennessee Higher Education Commission, Improving Teacher Quality Grant Program; Audience: 10 High School and Middle School Science Teachers (impacted 1,250 students); Duration: 3 days; Location: Nashville State Community College, Nashville, TN.
3. Ownley, B.H., and R.N. Trigiano. 2006. *Teaching Biotechnology and Molecular Biology in 8 -12 Grade Classrooms*; funded by the Tennessee Higher Education Commission, Improving Teacher Quality Grant Program; Audience: 23 High School and Middle School Science Teachers (impacted 2,875 students); Duration: 3 days; Location: The University of Tennessee, Knoxville, TN.
4. Trigiano, R.N., and B.H. Ownley. 2004. *Biotechnology and Molecular Biology*; funded by the Tennessee Higher Education Commission, Improving Teacher Quality Grant Program; Audience: 25 High School Science Teachers (impacted 3,000 students); Duration: 3 days; Location: The University of Tennessee, Knoxville, TN.

In-service educational training for middle and high school teachers in Genetics/ Diversity/ Biotechnology

1. Ownley, B.H. 2007. In-service training on *Genetics and Diversity* for 5th grade teachers, Campbell County (impacted 47 students); invited and funded by the East Tennessee Science Partnership; Duration: 2 hours; Location: Caryville, TN.
2. Ownley, B.H., and R.N. Trigiano. 2007. In-service training on *Genetics and Diversity* for 6th and 8th grade teachers, Fentress County (impacted 297 students); invited and funded by the East Tennessee Science Partnership; Duration: 2 hours; Location: Allardt, TN.
3. Ownley, B.H. 2006. In-service training on *Genetics and Diversity* for 7th and 8th grade teachers, Johnson County Middle School (impacted 361 students); invited and funded by the East Tennessee Science Partnership; Duration: 2 hours; Location: Mountain City, TN.
4. Ownley, B.H., and R.N. Trigiano. 2006. *Biotechnology, Genetics and Aquaculture Institute*; for 13 middle and high school teachers and administrators, Johnson County (impacted 1,625 students); invited and funded by the East Tennessee Science Partnership and Johnson County School District; Duration: 3 days; Location: Mountain City, TN.

Invited educational workshops for middle and high school teachers on the topics of Biotechnology, Genetics, or Molecular Biology presented at national or regional professional society meetings

1. Trigiano, R.N., and B.H. Ownley. 2005. *Biotechnology / Genetics Workshop*; invited and funded by the National Science Teachers Association, Southern Area Convention; Audience: 40 High School Science Teachers (impacted 5,000 students); Duration: 1 day; Location: Nashville, TN.
2. Trigiano, R.N., and B.H. Ownley. 2003. *DNA Isolation from Gram-negative Bacteria and Tissue Culture Propagation of Roses*. Hands-on demonstration and lecture; invited and funded by the Tennessee Academy of Science and Tennessee Science Teachers Association; Audience: 40 High School Science Teachers (impacted 5,000 students); Duration: 1 day; Location: Nashville, TN.

Invited hands-on workshops on Biotechnology/ Genetics/ Molecular Biology for middle school teachers; funded by the East Tennessee Science Partnership

1. Trigiano, R.N., and B.H. Ownley. 2005. *Genetics / Biotechnology Workshop*; invited and funded by the East Tennessee Science Partnership; Audience: 5 Middle School Teachers (impacted 250 students); 5 days; The University of Tennessee, Knoxville, TN.
2. Trigiano, R.N., and B.H. Ownley. 2005. *The Debate – Pros and Cons of Genetically Modified Organisms*; invited and funded by the East Tennessee Science Partnership; Audience: 5 Middle School Teachers (impacted 250 students); Duration: 2 days; Location: The University of Tennessee, Knoxville, TN.
3. Trigiano, R.N., and B.H. Ownley. 2005. *Biotechnology – Genetically Modified Organisms*; invited and funded by the East Tennessee Science Partnership; Audience: 5 Middle School Teachers (impacted 250 students); Duration: 2 days; Location: The University of Tennessee, Knoxville, TN.

Invited, funded workshops for the Tennessee Governor's School in Agricultural Sciences (TGSAS) for gifted pre-college students, The University of Tennessee, Martin

1. Ownley, B.H., and R.N. Trigiano. 2005. *DNA Detectives*; Audience: 30 High School Students; Duration: 4 days.
2. Trigiano, R.N., and B.H. Ownley. 2004. *DNA Detectives*; Audience: 32 High School Students; Duration: 4 days.

Invited, funded workshops for the Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR-UP), a program for at risk high school students

1. Trigiano, R.N., and B.H. Ownley. 2005. *Biotechnology in Agriculture*; Audience: 23 high school students; Duration: 5 days; Location: The University of Tennessee, Knoxville, TN.
2. Trigiano, R.N., and B.H. Ownley 2004. *Biotechnology*; Audience: 25 high school students; Duration: 5 days; Location: The University of Tennessee, Knoxville, TN.

Gadget Girls – a hands-on STEM educational activity for middle school girls (4th – 8th grade)

1. Participated as a faculty volunteer with four sessions on DNA, April 9th 2010. 150 students participated.

2. Served as Director (organized and coordinated UT faculty, staff, and student volunteers) for Gadget Girls and participated as an instructor with four sessions on DNA, November 17th, 2012, 75 student participates.
3. Director of the Gadget Girls program, and participated as an instructor with four sessions on DNA, April 12th, 2014 with 114 student participates.

High School Summer Research Interns

1. Hosted three high school science interns for 12 weeks in summer 2014. The students worked on identification of *Fusarium* species isolated from *Panicum virgatum*.

Theses/Dissertations Directed (15 M.S. students, 2 Ph.D. students)

1. Collins, Sara. Expected graduation 2016. Role of *Fusarium* and *Alternaria* in seedling disease and biomass yield of the biofuel crop *Panicum virgatum*.
2. Bruce, Alexander. Expected graduation 2016. Bioactive chemicals extracted from switchgrass have antimicrobial properties.
3. Fajolu, Oluseyi. 2012. Characterization of *Bipolaris* species, their effects on switchgrass biomass yield and chemical components. Ph.D. Dissertation. The University of Tennessee, Knoxville. 150 pp.
4. Mixon, Jonathan (*co-advised with Dr. Steve Bost*). 2012. Prevalence of copper resistance among foliar bacterial pathogens of tomato in Tennessee. M.S. Thesis. The University of Tennessee, Knoxville. 74 pp.
5. Vu, Andrea. 2011. Identifying pathogens of switchgrass and investigating anti-microbial activity of switchgrass-derived extractives. M.S. Thesis. The University of Tennessee. 82 pp.
6. Griffin, Mary Ruth. 2007. *Beauveria bassiana*, a cotton endophyte with biocontrol activity against seedling disease. Ph.D. Dissertation. The University of Tennessee, Knoxville. 164 pp.
7. Breeden, Thomas S. 2005. Brassica mulches and meal control fungal wheat pathogens *in vitro* and take-all disease in soil. M.S. Thesis. The University of Tennessee, Knoxville, 73 pp.
8. Leckie, Brian M. 2002. Effects of orally administered *Beauveria bassiana* mycelia and metabolites on *Helicoverpa zea*; and detection of endophytic *B. bassiana* in tomato plants using ITS Primers. M.S. Thesis. The University of Tennessee, Knoxville, 77 pp.
9. Seth (Carley), Danesha S. 2001. Effect of inoculum, cultivar, and the biological control fungus *Beauveria bassiana* on damping-off caused by *Rhizoctonia solani* on tomato. M.S. Thesis. The University of Tennessee, Knoxville, 71 pp.
10. Hamilton, Choo Y. 2000. Chemical and biological control of Pythium root rot of tobacco seedlings. M.S. Thesis. The University of Tennessee, Knoxville, 84 pp.
11. Bishop, Dennis G. 1999. Assessing the growth promoting characteristics, and effectiveness of selected bacteria and the entomopathogenic fungus, *Beauveria bassiana*, in the control of *Rhizoctonia solani* on tomato. M.S. Thesis. The University of Tennessee, Knoxville, 127 pp.
12. Clark, Bendik L. 1998. Evaluation and characterization of bacterial seed treatments for biological control of take-all of wheat. M.S. Thesis. The University of Tennessee,

- Knoxville, 105 pp.
13. Follis, Jay E. 1997. Effect of cultural practices on incidence and severity of sudden death syndrome and yield of soybean, and soybean cyst nematode population density and fungal infection. M.S. Thesis. The University of Tennessee, Knoxville, 88 pp.
 14. Smith (Moore), Patrice N. 1997. Biological control of *Rhizoctonia solani* on tomato. M.S. Thesis. The University of Tennessee, Knoxville, 67 pp.
 15. McMahan, Joseph P. 1996. Biological control of target spot and sore shin of tobacco seedlings with biological seed treatments and foliar sprays. M.S. Thesis. The University of Tennessee, Knoxville, 76 pp.
 16. Reeder, Robert B. 1996. Nontarget effects and persistence of introduced antibiotic-producing fluorescent pseudomonads on selected wheat rhizosphere bacteria in two cropping sequences and two simulated tillage practices. M.S. Thesis. The University of Tennessee, Knoxville, 112 pp.
 17. Ashby, Robert L., Jr. 1995. Biological and chemical controls of target spot of float-grown dark fire-cured tobacco seedlings. M.S. Thesis. The University of Tennessee, Knoxville, 93 pp.

Thesis/Dissertation Committee Activities - served as major professor for 18 graduate students (2 Ph.D. and 15 M.S. students), and served on the committees of 40 additional students (25 M.S. and 15 Ph.D. students). EPP began participation in an interdepartmental Ph.D. program (Plants, Soil, and Insects) in 2003.

Note: Department designations are the following: EPP = Entomology and Plant Pathology; ESM = Evaluation, Statistics, and Measurement (Institute for Assessment and Evaluation); FST = Food Science and Technology; OHLD = Ornamental Horticulture and Landscape Design; PSS = Plant and Soil Sciences; PSLs = Plant Sciences and Landscape Systems; PS = Plant Sciences. T&P-TE = Theory & Practice in Teacher Education. GST = Genome, Science and Technology. PSS and OHLD were merged in 2001 to become PSLs. In 2003, the PSLs name was changed to PS.

Student	Department	Degree	Role	Year
Sara Collins	EPP	M.S.	Chair	Current
Alexander Bruce	EPP	M.S.	Chair	Current
Jesse Benelli	PS (PSI)	Ph.D.	Member	Current
Jennifer Wheeler	PS	M.S.	Member	Current
Utsala Shrestha	PS (PSI)	Ph.D.	Member	Current
David Yates	EPP (PSI)	Ph.D.	Member	Current
Kimberly Whitlock	EPP	M.S.	Member	Current
Deborah Dean	EPP (PSI)	Ph.D.	Member	2014
Grant McCarty	PS	M.S.	Member	2012
Smith, Haley	EPP	M.S.	Member	2012
Oluseyi Fajolu	EPP (PSI)	Ph.D.	Chair	2012
Wanjing Liu	EPP	M.S.	Member	2012
Mary Rogers	PS (PSI)	Ph.D.	Member	2012
Pamela Bishop	ESM	Ph.D.	Member	2012

Sandesh Shrestha	EPP	M.S.	Member	2012
Jonathan Mixon	EPP	M.S.	Co-Advisor	2012
Marei Abdelkarim	EPP	M.S.	Member	2012
Daniel Gobena	GST	Ph.D.	Member	2012
Andrea Vu	EPP	M.S.	Chair	2011
Richard Gualandi, Jr.	PS	M.S.	Member	2010
Denita (Johnson) Habdiazic	EPP (PSI)	Ph.D.	Member	2010
Brian M. Leckie	PS	Ph.D.	Member	2008
Oscar Hurtado-Gonzales	EPP (PSI)	Ph.D.	Member	2008
Ryan Donahoo	EPP (PSI)	Ph.D.	Member	2008
Martha Malapi-Nelson	EPP	M.S.	Member	2008
Carolyn Reilly Sheehan	T&P-TE	M.S.	Member	2008
Mary Ruth Griffin	EPP (PSI)	Ph.D.	Chair	2007
Coesha Fairley	FST	Ph.D.	Member	2007
Miranda Marshall (Clark)	EPP	M.S.	Member	2006
Sharon Greene	EPP	M.S.	Member	2005
Thomas Breeden	EPP	M.S.	Chair	2005
Wesley Powell	PS	M.S.	Member	2005
Keun Ho Cho	PS	M.S.	Member	2004
Craig Charron	PSLS	Ph.D.	Member	2003
Martin Lyons	PSLS	Ph.D.	Member	2003
Brian M. Leckie	EPP	M.S.	Chair	2002
Stephanie Harvey	PSLS	Ph.D.	Member	2002
Shannon James	EPP	M.S.	Member	2001
Elena Kubikova	OHLD	M.S.	Member	2001
Danesha G. Seth (Carley)	EPP	M.S.	Chair	2001
Choo Y. Hamilton	EPP	M.S.	Chair	2000
Audrey Taro	EPP	M.S.	Member	2000
Dennis G. Bishop	EPP	M.S.	Chair	1999
Jeanese Reiss	EPP	M.S.	Member	1999
Katrina Burns	EPP	M.S.	Member	1999
Bendik L. Clark	EPP	M.S.	Chair	1998
Robert Klein	EPP	M.S.	Member	1997
Patrice N. Smith (Moore)	EPP	M.S.	Chair	1997
Jean Batzer	EPP	M.S.	Member	1997
Jay E. Follis	EPP	M.S.	Chair	1997
Leigh Ann Lisle	EPP	M.S.	Member	1997
Joseph P. McMahan	EPP	M.S.	Chair	1996
Robert B. Reeder	EPP	M.S.	Chair	1996
Malissa Howard	EPP	M.S.	Member	1996
Craig Green	OHLD	M.S.	Member	1996
Amy MacKenzie	OHLD	M.S.	Member	1995
Robert L. Ashby, Jr.	EPP	M.S.	Chair	1995

Post-doctoral Research Associates Directed

1993-94 Dr. Thomas Michaels

*RESEARCH, SCHOLARSHIP AND CREATIVE ACTIVITIES*Publications (* indicates graduate student or technical staff supervised by B.H. Ownley)

Journal Articles – refereed

1. Gualandi, R.J. Jr., R.M. Auge, D.A. Kopsell, B.H. Ownley, F. Chen, H.D. Toler, M.M. Dee, and K.D. Gwinn. 2014. Fungal mutualists enhance growth and phytochemical content in *Echinacea purpurea*. *Symbiosis: in press*.
2. Butler, D.M., B.H. Ownley, M.E. Dee*, S. Eichler Inwood, D.G. McCarty, U. Shrestha, N. Kokalis-Burelle, and E.N. Roskopf. 2014. Low carbon amendment rates during anaerobic soil disinfestation (ASD) at moderate soil temperatures do not decrease viability or *Sclerotinia sclerotiorum* or *Fusarium* root rot of common bean. Proc. VIIIth IS on Chemical and Non-chemical Soil Substrate Disinfestation, M.L. Guillino et al (eds), Acta Hort. 1044, ISHS.
3. Bishop, P.R., S.W. Huck, B.H. Ownley, J.K. Richards, and G.J. Skolits. 2014. Impacts of an interdisciplinary research center affiliation on participant publication and collaboration patterns: A case study of the National Institute for Mathematical and Biological synthesis. *Research Evaluation* 23: doi:10.1093/reseval/rvu019.
4. Trigiano, R.N., T.A. Rinehart, M.M. Dee*, P.A. Wadl, L.E. Poplawski, and B.H. Ownley. 2014. First report of aerial blight of Ruth's Golden Aster (*Pityopsis ruthii*) caused by *Rhizoctonia solani* in the United States. *Plant Disease* 98(6):855.
5. McCarty, D.G., III, S.E. Eichler Inwood, B.H. Ownley, C.E. Sams, A.L. Wszelaki, and D.M. Butler. 2014. Field evaluation of carbon sources for anaerobic soil disinfestation (ASD) in tomato and bell pepper production in Tennessee. *J. Amer. Hort. Soc.* 49 (3):272-280.
6. Vu*, A.L., K.D. Gwinn, and B.H. Ownley. 2013. First report of leaf spot on switchgrass caused by *Pithomyces chartarum* in the United States. *Plant Disease* 97 (12):1655.
7. Vu*, A.L., M.M. Dee*, J. Zale, K.D. Gwinn, and B.H. Ownley. 2013. First report of leaf spot caused by *Bipolaris oryzae* on switchgrass in Tennessee. *Plant Disease* 97 (12):1654.
8. Fajolu*, O.L., P.A. Wadl, A.L. Vu, K.D. Gwinn, B.E. Scheffler, R.N. Trigiano, and B.H. Ownley. 2013. Development and characterization of simple sequence repeats for *Bipolaris sorokiniana* and cross transferability to related species. *Mycologia* 105 (5):1164-1173.
9. Fajolu*, O.L., A.L. Vu*, M.M. Dee*, J. Zale, K.D. Gwinn, and B.H. Ownley. 2012. First report of leaf spot and necrotic roots on switchgrass caused by *Curvularia lunata* var. *aeria* in the United States. *Plant Disease* 96 (9):1372.
10. Vu*, A.L., M.M. Dee*, T. Russell*, J. Zale, K.D. Gwinn, and B.H. Ownley. 2012. First report of leaf spot caused by *Alternaria alternata* on switchgrass in Tennessee. *Plant Disease* 96 (5):763.

11. Hadžiabdic, D., X. Wang, P.A. Wadl, T.A. Rinehart, B.H. Ownley, and R.N. Trigiano. 2012. Genetic diversity of flowering dogwood in the Great Smoky Mountains National Park. *Tree Genetics and Genomes* 8:855-871.
12. Dean, D., P.A. Wadl, X. Wang, W.E. Klingeman, B.H. Ownley, T.A. Rinehart, B.E. Scheffler, and R.N. Trigiano. 2011. Screening and characterization of 11 novel microsatellite markers from *Viburnum dilatatum*. *HortScience* 46:1456-1459.
13. Vu*, A.L., K.D. Gwinn, and B.H. Ownley. 2011. First report of dollar spot caused by *Sclerotinia homoeocarpa* on switchgrass in the United States. *Plant Dis.* 95 (12):1585.
14. Vu*, A.L., M.M. Dee*, K.D. Gwinn, and B.H. Ownley. 2011. First report of spot blotch and common root rot caused by *Bipolaris sorokiniana* on switchgrass in Tennessee. *Plant Dis.* 95 (9):1195.
15. Vu*, A.L., M.M. Dee*, R.J. Gualandi, Jr., S. Huff, J. Zale, K.D. Gwinn, and B.H. Ownley. 2011. First report of leaf spot caused by *Bipolaris spicifera* on switchgrass in the United States. *Plant Dis.* 95 (9):1191.
16. Gwinn, K.D., B.H. Ownley, S.E. Greene, M.M. Clark, C.L. Taylor, T.N. Springfield, D.J. Trently, J.F. Green, A. Reed, and S.L. Hamilton. 2010. Role of essential oils in control of *Rhizoctonia* damping-off in tomato with bioactive *Monarda* herbage. *Phytopathology* 100:493-501.
17. Hadžiabdic, D., B.M. Fitzpatrick, X. Wang, P.A. Wadl, T.A. Rinehart, B.H. Ownley, M.T. Windham, and R.N. Trigiano. 2010. Analysis of genetic diversity of flowering dogwood natural stands using microsatellites: the effects of dogwood anthracnose. *Genetica* 138:1047-1057.
18. Ownley, B.H., K.D. Gwinn, and F.E. Vega. 2010. Endophytic fungal entomopathogens with activity against plant pathogens: ecology and evolution. *BioControl* 55:113-128.
19. Malapi-Nelson, M., R.-H. Wen, B.H. Ownley, M.R. Hajimorad. 2009. Co-infection of soybean with *Soybean mosaic virus* and *Alfalfa mosaic virus* results in disease synergism and alteration in accumulation level of both viruses. *Plant Dis.* 93:1259-1264.
20. Powell, W.A., W.E. Klingeman, B.H. Ownley, and K.D. Gwinn. 2009. Evidence of endophytic *Beauveria bassiana* in seed-treated tomato plants acting as a systemic entomopathogen to larval *Helicoverpa zea* (Lepidoptera: Noctuidae). *J. Entomol. Sci.* 44:391-396.
21. Vega, F.E., M.S. Goettel, M. Blackwell, D. Chandler, M.A. Jackson, S. Keller, M. Koike, N.K. Maniania, A. Monzón, B.H. Ownley, J.K. Pell, D.E.N. Rangel, and H.E. Roy. 2009. Fungal entomopathogens: new insights on their ecology. *Fungal Ecol.* 2:149-159. *Paper is the "Top Cited Article since 2009" for Fungal Ecology.*
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3. Butler, D.M., S. Eichler Inwood, D.G. McCarty, C.E. Sams, A.L. Wszelaki, M.E. Dee*, B.H. Ownley, N. Kokalis-Burelle, and E.N. Rosskopf. 2012. Optimizing anaerobic soil disinfestation for Tennessee. Proceedings of the Annual International Research Conference on Methyl Bromide Alternatives and Emissions, pp. 13-1 to 13-3.
4. Ownley, B.H., O.L. Fajolu*, A.L. Vu*, K.L. Mantooth*, M.M. Dee*, K. D. Gwinn, P.A. Wadl, R.N. Trigiano. 2013. Stand establishment and biomass yield of switchgrass impacted by several soil- and seed-borne fungal plant pathogens. SunGrant Initiative - 2012 National Conference: Science for Biomass Feedstock Production and Utilization, Oct. 2-5, New Orleans, LA. (http://sungrant.tennessee.edu/NR/rdonlyres/DOA5701F-E268-43A9-B312-DACBDBA937B0/3675/33Fajolu_Oliseyl.pdf).
5. Li, Y., M.T. Windham, R.N. Trigiano, A.S. Windham, B.H. Ownley, K.D. Gwinn, J.M. Zale, and J. Spiers. 2009. Rust diseases of ornamental grasses. Proc. S. Nurs. Assoc. Res. Conf. 54:81-82.
6. Gwinn, K.D., B.H. Ownley, and S.E. Greene. 2007. Impact of Monarda herbage on growth of rooted cuttings. Proc. S. Nurs. Assoc. Res. Conf. 52:293-296.
7. Hadžiabdic, D., X. Wang, R.N. Trigiano, B.M. Fitzpatrick, B.H. Ownley, M.T. Windham, T.A. Rinehart, and Q. Xiang. 2007. Genetic diversity of flowering dogwood (*Cornus florida* L.) in the southeastern United States. Proc. S. Nurs. Assoc. Res. Conf. 52:334-338.
8. Gwinn, K.D., S. Greene, D. J. Trently, B.H. Ownley, and S.L. Hamilton. 2003. *Monarda*: A new control strategy. Proc. S. Nurs. Assoc. Res. Conf. 48:208-211.
9. Canaday, C.H., and B.H. Ownley. 2001. Effects of seed treatment chemicals and root colonization by *Bacillus subtilis* and subsequent effects on snap bean seedling diseases, growth, and yield. Proceedings of the Joint Regional Biological Control Conf., Biocontrol in a New Millennium: Building for the Future on Past Experience, D. Huber, ed. Estes Park, CO. October 26-29, 2000. pp. 31-35.
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biological agents as seed treatments for cotton stand establishment. Proceedings Beltwide Cotton Production Research Conf., National Cotton Council, Memphis, TN. Vol. 1:103-104.

12. Dever, M., N. Fair, B.H. Ownley, and P.L. Lambdin. 1997. A systems approach to evaluate agricultural mulch films. Proceedings of the Third International Symposium on Consumer Environmental Issues: Safety, Health, Chemicals, and Textiles in the Near Environment, St. Petersburg, FL.

Presentations at Professional Meetings (published Abstracts)

1. Bruce*, A., B.H. Ownley, N. Labbé, K.D. Gwinn, D.H. D'Souza, N. Moustaid-Moussa. 2014. Switchgrass extractives have potential as a value-added biopesticide against plant pathogens and foodborne pathogens. *Phytopathology* 104: *in press*.
2. Ownley, B.H., S.B. Collins*, and M.M. Dee*. 2014. Effect of *Fusarium* species isolated from switchgrass plants and seeds on foliar disease and stand establishment. *Phytopathology* 104: *in press*. (Presenter).
3. Shrestha, U., A. Bruce, B.H. Ownley, and D.M. Butler. 2014. Effects of organic amendment C: N ratio on *Fusarium oxysporum* f. sp. *lycopersici* populations following anaerobic soil disinfestation. *Phytopathology* 104: *in press*.
4. Bernard, E.C., D.W. McDonald, B.H. Ownley, R.B. Michaels, and D. Weaver. 2013. Nematode susceptibility rankings from soft-tissue x-ray imaging. *Journal of Nematology* 45: *in press*.
5. Liu, W., B.H. Ownley, and K. Gwinn. 2013 Impact of essential oils on spore germination and plant colonization by *Beauveria bassiana*. *Phytopathology* 103: S2.84.
6. Ownley, B.H., N. Labbe, K.D. Gwinn, M. Dee, P.B. Filson, A.L. Vu, D.H. D'Souza, and N. Moustaid-Moussa. 2013. Development of switchgrass extractives as a value-added biopesticide against bacterial spot (*Xanthomonas perforans*) of tomato. *Phytopathology* 103: S2.109. (Presenter).
7. Whitlock, K., E.C. Bernard, B.H. Ownley, and A. Bruce. 2013. A non-pathogenic inguiline, kleptoparasitic fungus inhabiting the intestine of rhabditid nematodes. *Journal of Nematology* 45: *in press*.
8. Bernard, E.C., D.W. McDonald, R. Michaels, and B.H. Ownley. 2012. Nondestructive X-ray imaging of root systems infected with endoparasitic nematodes. *Journal of Nematology* 44:453.
9. McCarty, D. G., B.H. Ownley, A.L. Wszelaki, C.E. Sams, and D.M. Butler. 2012. Evaluation of anaerobic soil disinfestation (ASD) for warm-season vegetable production in Tennessee. *HortScience* 47:S330-331.
10. Bost, S., J.T. Mixon, B.H. Ownley, K.D. Gwinn, and C.E. Sams. 2012. Optimization of copper resistance testing methods for foliar bacterial pathogens of tomato. *Phytopathology* 102:S4.14.
11. Fajolu*, O.L., M. Dee*, K.D. Gwinn, P.A. Wadl, A.L. Vu*, R.N. Trigiano, and B.H. Ownley. 2012. Pathogenicity and virulence of *Bipolaris* species and impact on switchgrass biomass. *Phytopathology* 102:S4.36.
12. Fajolu*, O.L., P.A. Wadl, A.L. Vu*, K.D. Gwinn, B.H. Ownley, and R.N. Trigiano. 2012. Identification of microsatellites from *Bipolaris sorokiniana*, a pathogen of switchgrass.

Phytopathology 102:S2.3.

13. Abdelkarim, M.M., B.H. Ownley, W.E. Klingeman, and K.D. Gwinn. 2011. Effect of arbuscular mycorrhizae on aphid infestation of wheat. *Phytopathology* 101:S2.
14. Hadžiabdic, D., X. Wang, P.A. Wadl, T.A. Rinehart, B.H. Ownley, M.T. Windham, and R.N. Trigiano. 2011. Evaluation of genetic structure of flowering dogwood in the Great Smoky Mountains National Park. Supplement to *HortScience* 46:S170.
15. Liu, W., L. Nguyen, D. Bodioga, R. Kelemen, J. Joo, B.H. Ownley, and K.D. Gwinn. 2011. Cymene inhibition of *Beauveria bassiana* spore germination. *Phytopathology* 101:S109.
16. Horobet, P., K.D. Gwinn, and B.H. Ownley. 2011. Microplate assay for copper resistance in *Xanthomonas* spp. *Phytopathology* 101:S75.
17. Mixon*, J.T., A.L. Vu, B.H. Ownley, and S.C. Bost. 2011. Application of multiplex PCR to mixed populations of tomato bacterial pathogens. *Phytopathology* 101:S121.
18. Vu*, A.L., K.D. Gwinn, and B.H. Ownley. 2011. Incidence and prevalence of fungal pathogens on switchgrass seed produced in the U.S.A. *Phytopathology* 101:S184.
19. Abdelkarim, M.M., R.J. Gualandi, K.D. Gwinn, and B.H. Ownley. 2010. Impact of mycorrhizal infection on sensitivity of wheat to sorghum allelopathy. *Phytopathology* 100:S2.
20. Gualandi, R.J., Jr., K.D. Gwinn, B.H. Ownley, and R.M. Augé. 2010. The role of fungal endophytes in the production of natural products in *Echinacea purpurea*. *Phytopathology* 100:S44.
21. Hadžiabdic, D., B.M. Fitzpatrick, X. Wang, P.A. Wadl, T.A. Rinehart, B.H. Ownley, M.T. Windham, and R.N. Trigiano. 2010. Fine scale genetic structure of flowering dogwood in the Great Smoky Mountains National Park. *Phytopathology* 100:S45.
22. Hadžiabdic, D., B.M. Fitzpatrick, X. Wang, P.A. Wadl, T.A. Rinehart, B.H. Ownley, M.T. Windham, and R.N. Trigiano. 2010. Genetic diversity of flowering dogwood maintained despite massive mortality caused by dogwood anthracnose. *HortScience* 45:S148.
23. Vu*, A.L. M.M. Dee*, T. Russell*, O.L. Fajolu, K.D. Gwinn, J. Zale, and B.H. Ownley. 2010. Survey of diseases of agronomic switchgrass in Tennessee. *Phytopathology* 100:S131.
24. Li, Y., M. Windham, R. Trigiano, A. Windham, B. Ownley, K. Gwinn, J. Zale, and J. Spiers. 2009. Cultivar-specific interactions between switchgrass and *Puccinia emaculata*. *Phytopathology* 99:S72.
25. Malapi-Nelson, M., B. Ownley, K. Gwinn, and M. Hajimorad. 2008. Mixed infection of *Alfalfa mosaic virus* and *Soybean mosaic virus* in soybeans results in disease synergism. *Phytopathology* 98:S96.
26. Ownley, B.H., M.M. Dee*, and K.D. Gwinn. 2008. Effect of conidial seed treatment rate of entomopathogenic *Beauveria bassiana* 11-98 on endophytic colonization of tomato seedlings and control of Rhizoctonia disease. *Phytopathology* 98:S118. (Presenter)
27. Springfield, T.N., K.D. Gwinn, and B.H. Ownley. 2008. Inhibition of *Rhizoctonia solani* by essential oils found in *Monarda* herbage. *Phytopathology* 98:S149.
28. Fairley, C.A., P. Perkins, P.M. Davidson, B.H. Ownley, and D.A. Golden. 2007. *Aspergillus flavus* and *Penicillium* spp. associated with musty off-flavors in navy beans (*Phaseolus vulgaris*). International Association for Food Protection, Orlando, FL, Jul 8-11, #P5-61.
29. Gwinn, K.D., S.E. Greene, and B.H. Ownley. 2007. *Monarda* bioactive herbage reduces *Rhizoctonia* disease losses in tomato transplants. *Phytopathology* 97:S44.

30. Ownley, B.H., M.R. Griffin*, W.E. Klingeman, K.D. Gwinn, J.K. Moulton, and R.M. Pereira. 2007. *Beauveria bassiana*: endophytic colonization and plant disease control. Pages 63-64 in: 40th Annual Meeting of the Society for Invertebrate Pathology and 1st International forum on Entomopathogenic Nematodes and Symbiotic Bacteria, Quebec City, Quebec, Canada, Aug 12-16.
http://www.sipweb.org/Meeting_Abstracts/2007abstracts.pdf (Presenter)
31. Powell, W.A., W.E. Klingeman, B.H. Ownley, K.D. Gwinn, M. Dee*, and P.C. Flanagan. 2007. Endophytic *Beauveria bassiana* in tomatoes yields mycosis in tomato fruitworm larvae. HortScience 42:933.
32. Griffin*, M.R., B.H. Ownley, W.E. Klingeman, and R.M. Pereira. 2006. Evidence of induced systemic resistance with *Beauveria bassiana* against *Xanthomonas* in cotton. Phytopathology 96:S42.
33. Clark, M.M., K.D. Gwinn, and B.H. Ownley. 2006. Biological control of *Pythium myriotylum*. Phytopathology 96:S25.
34. Clark, M.M., K.D. Gwinn, and B.H. Ownley. 2006. *Monarda* as a biological control method for *Pythium myriotylum*. Phytopathology 96:S73.
35. Gwinn, K.D., S.E. Greene, D.J. Trently, and B.H. Ownley. 2006. Inhibition of sclerotia of *Sclerotinia sclerotiorum* by *Monarda* and its essential oils constituents. Phytopathology 96:S44.
36. Griffin*, M.R., B.H. Ownley, W.E. Klingeman, and R.M. Pereira. 2005. Biocontrol of Rhizoctonia damping-off of cotton with endophytic *Beauveria bassiana*. Phytopathology 95:S36.
37. Ownley, B.H., T.S. Breeden*, D. West, and C. Sams. 2005. Take-all of wheat is reduced by incorporating *Brassica juncea* mulch into soil infested with *Gaeumannomyces graminis* var. tritici. Phytopathology 95:S78. (Presenter)
38. Gwinn, K., S. Greene, B. Ownley, J. Wills, Jr., and G. Honea. 2005. Bioactive natural products and selected biopesticides for control of *Pythium* disease in hydroponically-grown tomatoes. Phytopathology 95:S38.
39. Gwinn, K. S. Greene, B. Ownley, J. Wills, Jr., and G. Honea. 2005. Integration of biopesticides for control of *Pythium* disease in hydroponically-grown greenhouse tomatoes. Phytopathology 95:S38.
40. Breeden*, T.S., B.H. Ownley, D.R. West, and C.E. Sams. 2003. *Brassica juncea* inhibits soilborne pathogens. Phytopathology 93:S11.
41. Pickens, K., D.R. West, B.H. Ownley, and C.E. Sams. 2003. *Brassica* crops inhibit *Fusarium graminearum* and *F. equiseti* in culture. Southern Branch Am. Soc. Agron. Abs of Tech papers, p. 24.
42. Breeden*, T.S., B.H. Ownley, D.R. West, and C.E. Sams. 2002. Growth of *Gaeumannomyces graminis* var. tritici is inhibited by *Brassica* spp. mulches. Phytopathology 92:S9.
43. Breeden*, T.S., D.R. West, B.H. Ownley, and C.E. Sams. 2002. Brassica species inhibit take-all fungus of wheat. Agronomy Abstracts.
44. Greene, S.E., K.D. Gwinn, D.J. Trently, S.L. Hamilton, and B.H. Ownley. 2002. *Monarda didyma* and control of damping off of tomato. Phytopathology 92:S31.
45. Ownley, B.H., and B.K. Duffy. 2002. Identifying and manipulating soil factors that influence biocontrol. Phytopathology 92:S98. (Presenter)

46. Ownley, B.H., and C.Y. Hamilton*. 2001. Control of *Pythium* root rot of float-grown tobacco seedlings with chitosan. *Phytopathology* 91:S202. (Presenter)
47. Seth*, D., B.H. Ownley, R. Pereira, and C.H. Canaday. 2001. Effect of application method and inoculum form of *Beauveria bassiana* on *Rhizoctonia* damping-off in tomato. *Phytopathology* 91:S81.
48. Seth*, D., and B.H. Ownley. 2001. Effect of inoculum type of *Rhizoctonia solani* and cultivar on damping-off of tomato. *Phytopathology* 91: S203.
49. Ownley, B.H., D.G. Bishop*, and R.M. Pereira. 2000. Biocontrol of *Rhizoctonia* damping-off of tomato with *Beauveria bassiana*. *Phytopathology* 90:S58. (Presenter)
50. Slaughter*, L., and B.H. Ownley. 1999. Effects of tillage, row-spacing, and cultivars on microbial parasites of the soybean cyst nematode as it relates to sudden death syndrome of soybeans. *Countdown* 2:20.
51. Ownley, B.H., and B.L. Clark*. 1998. Impact of carriers on efficacy and survival in storage of seed-applied bacterial biocontrol agents. 7th International Congress of Plant Pathology Offered Papers Abstracts Vol. 3, Edinburgh, Scotland, 9-16 August, p. 5.2.29. (Presenter)
52. Smith*, P.N., and B.H. Ownley. 1997. Seed treatment of tomato for biological control of *Rhizoctonia* diseases. Minorities in Agriculture, Natural Resources and Related Science annual meeting, April 3-5, Baton Rouge, LA.
53. Follis*, J.E., B.H. Ownley, and M.A. Newman. 1997. Effect of cultural practices and cultivar on sudden death syndrome of soybean. Proceedings of the 5th Annual Southern Soybean Conference, February 11-13, Myrtle Beach, SC.
54. Follis*, J.E., B.H. Ownley, and M.A. Newman. 1997. Effect of tillage, row spacing, and genetic resistance on sudden death syndrome of soybean. *Phytopathology* 87: S112.
55. Dever, M., P.L. Lambdin, and B.H. Ownley. 1996. Comparison of biodegradable, non-biodegradable, and infrared transmitting agricultural films on growth parameters of vegetable crops in Tennessee. *Bio/Environ. Degradable Polymer Society*, Sept. 24, Nashville, TN.
56. Reeder*, R.B., and B.H. Ownley. 1996. Persistence and nontarget effects of introduced antibiotic-producing pseudomonads are affected by tillage, cropping sequence, and cropping cycle. 8th International Congress on Molecular Plant-Microbe Interactions Abstract Book. p. D-12.
57. Dee*, M.M., N.B. Quigley, and B.H. Ownley. 1995. Micro-dilution plating technique for assessing population counts of microorganisms. *Phytopathology* 85:1204.
58. Clark*, B.L., R.B. Reeder*, and B.H. Ownley. 1995. Evaluation of *Bacillus* and *Pseudomonas* isolates from Tennessee soil for biological control of take-all. *Phytopathology* 85:1191.
59. McMahan*, J.P., and B.H. Ownley. 1995. Effect of growth medium and pathogen introduction time on biocontrol by *Bacillus* sp. BA55 against *T. cucumeris* on tobacco. *Phytopathology* 85:1166.
60. Reeder*, R.B., and B.H. Ownley. 1995. Nontarget effects of antibiotic-producing pseudomonads in wheat-soybean and wheat-fallow cropping sequences. *Phytopathology* 85:1136.
61. Ashby*, Jr., R.L., and B.H. Ownley. 1994. Development of a leaf disk assay to prescreen

- bacteria for biological control of target spot on tobacco. *Phytopathology* 84:1125-1126.
62. Michaels*, T.J., B.H. Ownley, K.D. Johnson, and R.B. Reeder*. 1994. Establishment of a long-term monitoring system for *Rhododendron* dieback in the Great Smoky Mountains National Park. *Phytopathology* 84:1143.
63. Michaels*, T.J., B.H. Ownley, K.D. Johnson, and R.B. Reeder*. 1994. Development of a long-term monitoring system for dieback of *Rhododendron maximum* in the Great Smoky Mountains National Park. Absts. 19th Annual Meeting on Scientific Research, GSMNP. USDI/NPS, Sci. Publ. Off., Atlanta, GA. 26 pp.
64. Reeder*, R.B., and B.H. Ownley. 1994. Influence of temperature on production of hydrogen cyanide and 2,4-diacetylphloroglucinol, and on inhibition of *Gaeumannomyces graminis* var. *tritici* by *Pseudomonas aureofaciens* Q2-87. *Phytopathology* 84:1114.
65. Ashby*, Jr., R.L., B.H. Ownley, B.B. Reddick, and D.O. Onks. 1993. Biological and chemical control of target spot of float-grown tobacco seedlings. *Phytopathology* 83:1392.
66. Cook, R.J., B.H. Ownley, and P.E. Rasmussen. 1992. Nitrates left in the soil profile after harvest of wheat and barley relate to severity of root diseases. *Phytopathology* 82:1113.
67. Ownley, B.H., B.K. Duffy, and D.M. Weller. 1992. Association of soil factors with biological control of take-all by *Trichoderma koningii*. *Phytopathology* 82:1120. (Presenter)
68. Ownley, B.H., D.M. Weller, and J.R. Alldredge. 1990. Influence of soil edaphic factors on suppression of take-all by *Pseudomonas fluorescens* 2-79. *Phytopathology* 80:995. (Presenter)
69. Ownley, B.H., D.M. Weller, and J.R. Alldredge. 1990. Relation of soil chemical and physical factors with suppression of take-all by *Pseudomonas fluorescens* 2-79. Page 86 in: The Second International Workshop on Plant Growth-Promoting Rhizobacteria, October 14-19, Interlaken, Switzerland. G. Défago, ed. Institut für Pflanzenwissenschaften, Zurich. 130 pp.
70. Ownley, B.H., D.M. Weller, and L.S. Thomashow. 1989. Effects of soil pH on suppression of take-all by *Pseudomonas fluorescens* 2-79. *Phytopathology* 79:1159. (Presenter)
71. Ownley, B.H., D.M. Benson, and T.E. Bilderback. 1988. Physical properties of pine bark media and relation to severity of *Phytophthora* root rot of *Rhododendron*. *Phytopathology* 78:1569. (Presenter)
72. Gintis, B. Ownley, and D.M. Benson. 1987. Biological control of *Phytophthora* root rot of azalea with *Penicillium janthinellum*. *Phytopathology* 77:1688. (Presenter)
73. Gintis, B. Ownley, and D.M. Benson. 1986. Matric potential relations in container mixes of pine bark and suppression of *Phytophthora* root rot of *Rhododendron* sp. *Phytopathology* 76:1072. (Presenter)
74. Rodriguez-Kabana, R., G. Morgan-Jones, and B. Ownley Gintis. 1984. Fungi associated with several developmental stages of *Heterodera glycines* from an Alabama soybean field soil. *Phytopathology* 74:1016.
75. Gintis, B. Ownley, G. Morgan-Jones, and R. Rodriguez-Kabana. 1983. Fungi associated with several developmental stages of *Heterodera glycines* in Alabama soil. *J. Nematol.* 15:487. (Presenter)

76. Gintis, B. Ownley, G. Morgan-Jones, and R. Rodriguez-Kabana. 1982. Fungal colonization of young cysts of *Heterodera glycines* in soybean field soil. *J. Nematol.* 14:464. (Presenter)

Presentations at Professional Meetings (Presented without Published Abstracts)

1. Rogers, M.R., B.H. Ownley, P. Avery, A. Wszelaki, J. Jurat-Fuentes, and D. Butler. 2012. Impact of biopesticides on feeding and mortality of adult spotted cucumber beetle (*Diabrotica undecimpunctata howardi*) in laboratory assays. Annual Meeting of the Entomological Society of America. Knoxville, TN, Nov 11-14.
2. Griffin*, M.R., B.H. Ownley, W.E. Klingeman, K.D. Gwinn, and J.K. Moulton. 2008. Evidence for endophytic activity of *Beauveria bassiana* in cotton. The Alleghany Branch of American Society of Microbiology, Annual Meeting, Lewisburg, PA, Nov 15-16.
3. Johnson, D.H., X. Wang, B.M. Fitzpatrick, T.A. Rinehart, B.H. Ownley, and R.N. Trigiano. 2008. Genetic diversity of flowering dogwood (*Cornus florida* L.) in the southeastern United States using microsatellites. Society for the Study of Evolution. Minneapolis, MN, Jun 24.
4. Powell, W., W.E. Klingeman, B. Ownley, K. Gwinn, and P.C. Flanagan. 2007. Tomatoes with endophytic *Beauveria bassiana* yield mycosis in tomato fruitworm larvae. Southeastern Branch Entomological Society of America, Knoxville, TN, Mar 5-7.
5. Pereira, R.M., B.H. Ownley, and T.A. Richey. 1998. Compatibility of biological control agents of soilborne plant pathogens and entomopathogenic fungi. Joint Annual Mtg Entomological Society of America and American Phytopathological Society, Las Vegas, NV, Nov 8-12.

Invited Presentations

1. Ownley, B.H. 2013. Endophytic *Beauveria* as a plant pathogen antagonist - The Journey. Annual meeting of the Entomological Society of America, Austin, TX, Nov 9-13.
2. Ownley, B.H. 2013. Soil- and seedborne pathogens of switchgrass. Southeastern Partnership for Integrated Biomass Supply Systems (IBSS). Raleigh, NC, Sept 25-27.
3. Ownley, B.H. 2012. Soil- and seedborne pathogens of switchgrass. Southeastern Partnership for Integrated Biomass Supply Systems (IBSS). Auburn, AL, Dec 12-13.
4. Ownley, B.H. 2012. Soilborne and seedborne fungal plant pathogens of switchgrass. Tennessee Plant Research Center Colloquium, Knoxville. Sept. 27.
5. Ownley, B.H. 2008. *Beauveria bassiana*: endophytic colonization and plant disease control. Invited oral presentation at the Conference on Insect Pathogenic Fungi in Sustainable Agriculture: use against insects and beyond. Conference was sponsored by the Rockefeller Foundation and was held at the Bellagio Study and Conference Center, Bellagio, Italy, June 23-27.
6. Ownley, B.H., M.R. Griffin*, W.E. Klingeman, K.D. Gwinn, J.K. Moulton, and R.M. Pereira. 2007. *Beauveria bassiana*: endophytic colonization and plant disease control. Society for Invertebrate Pathology Annual Meeting, Quebec City, Quebec, Canada, Aug 12-16. (Presenter)

7. Ownley, B.H., R.N. Trigiano, and M.L. Bentley. 2006. Teaching Biotechnology and Molecular Biology in 8-12th Grade Classrooms. East Tennessee Science Partnership, Mar 31. (Presenter)
8. Ownley, B.H. 2005. *Beauveria bassiana*: A dual purpose biological control fungus with activity against insects, pests, and plant disease fungi. University of Tennessee Honors Program, Sept. 21.
9. Ownley, B.H., and B. Duffy. 2002. Identifying and manipulating soil factors that influence biocontrol. Symposium: Creating the Right Environment for Biological Control. American Phytopathological Society Annual Meeting, Milwaukee, WI, Jul 27-31. (Presenter)
10. Ownley, B.H. 1994. Help Wanted: Expeditious plant pathogen permitting for nematodes. Discussion session held at the American Phytopathological Society Annual Meeting, Albuquerque, NM, Aug 6-10.
11. Ownley, B.H. 1993. Invited seminar: Biological control of take-all root disease of wheat. Center for Legume Research, The University of Tennessee.
12. Ownley, B.H. 1991. Association of soil factors with suppression of take-all by *Pseudomonas fluorescens* 2-79. Plant Sciences Department, Macdonald Campus of McGill University, Ste. Anne Bellevue, Quebec, Canada.
13. Ownley, B.H. 1990. Influence of soil factors on biocontrol activity of fluorescent pseudomonads. Weed Science Biological Control Group, U.S. Dept. of Agriculture, Agricultural Research Service, Land Management and Water Conservation Research Unit, Pullman, WA.
14. Ownley, B.H. 1990. Relation of soil factors with biocontrol of take-all by antibiotic-producing, fluorescent pseudomonads. Department of Plant Pathology, Washington State Univ., Pullman, WA.
15. Ownley, B.H. 1990. Physical and biological approaches to control of Phytophthora root rot of woody ornamentals. Department of Plant Pathology, Washington State University, Pullman, WA.

Field Day Presentations

1. Gwinn, K.D., and B.H. Ownley. 2011. The quest for disease resistance in heirloom tomatoes. Organic Crops Field Tour, East Tennessee Research and Education Center, Knoxville, TN. April 28.
2. Ownley, B.H. 2010. Natural alternatives for disease control. Organic Crops Field Tour, East Tennessee Research and Education Center, Knoxville, TN. April 29.
3. Ownley, B.H. 1999. Wheat root diseases. Middle Tennessee Expt. Station Small Grains Field Day.
4. Ownley, B.H. 1997. Tomato root diseases. Knoxville Experiment Station Vegetable Field Day.
5. Lambdin, P.L., M. Dever, and B.H. Ownley. 1997. Biodegradable plastics in agriculture. Knoxville Experiment Station Vegetable Field Day.
6. Ownley, B.H. 1996. Biological disease control. Highland Rim Experiment Station Tobacco Field Day.
7. Cook, R.J. and B.H. Ownley. 1991. Wheat root diseases. Integrated Crop Management for Cereal/ Legume Production in the Palouse Field Day.

Industry Presentations

1. M. R. Hajimorad, I. Tzanetakis, B. Ownley, M. Newman. 2009. Identification and development of diagnostic assays for the causal agent of a new virus disease of soybean. Tennessee Soybean Promotion Board Meeting, Jan 20-21, Pigeon Forge, TN.
2. Ownley, B.H. 2001. Management of tobacco diseases and bacteria-mediated growth promotion. U.S. Tobacco Co. Springfield, TN, Jul 20.
3. Ownley, B.H. 2000. Management of tobacco diseases. U.S. Tobacco Co., Springfield, TN, Sep 21.
4. Ownley, B.H. 1999. Management of tobacco diseases. U.S. Tobacco Co., Springfield, TN, Jul 27.
5. Ownley, B.H. 1998. Management of tobacco diseases. U.S. Tobacco Co., Springfield, TN, Jul 28.
6. Ownley, B.H. 1997. Management of target spot and sore shin of float-grown tobacco seedlings. U.S. Tobacco Co., Springfield, TN.
7. Ownley, B.H., and J.P. McMahan*. 1996. Management of diseases in float-grown tobacco seedlings. U.S. Tobacco Co., Springfield, TN. (Presenter)
8. Ownley, B.H., R.L. Ashby*, Jr., and J.P. McMahan*. 1995. Management of diseases in float-grown tobacco seedlings. U.S. Tobacco Co., Springfield, TN. (Presenter)
9. Ownley, B.H. 1994. Biological and chemical control of target spot of tobacco. U.S. Tobacco Co., Springfield, TN.
10. Ownley, B.H., R.L. Ashby*, Jr., and B.B. Reddick. 1993. Biological and chemical control strategies for target spot of tobacco. U.S. Tobacco Co., Springfield, TN. (Presenter)

Workshop Presentations - Research

1. Ownley, B.H. 2010. Disease ID and reduced input management. Sustainable and organic vegetable management. Organic Crops Unit, East Tennessee Research and Education Center, Knoxville, TN, August 19.
2. Ownley, B.H., and S. Bost. 2010. Disease management: Molds, mildews, and blights, Oh my! Organic Crop Production Workshop Series for Growers and Agriculture Professionals, June 14, UT Agricultural Campus, Knoxville, TN. (Presenter)
3. Ownley, B.H., and D.M. Benson. 1986. Influence of container environment on disease development. Fourth Woody Ornamentals Workshop, Crossnore, NC. (Presenter)

Regional Research Committee Presentations

1. Ownley, B.H. 2007. *Beauveria bassiana*: endophytic colonization and plant disease control. Regional Project S-1028 Annual Mtg., Lexington, KY, Nov. 3-4.
2. Canaday, C.H. and B.H. Ownley. 2002. Effects of planting date, seed treatment fungicides, and *Bacillus subtilis* on the incidence of seedling diseases, plant growth, and snap bean yield. Southern Regional Project S-302 Annual Mtg, Raleigh, NC, Nov 16-17.
3. Ownley, B.H. 2002. Beneficial effects of *Beauveria bassiana* on tomato. Southern Regional Project S-302 Annual Mtg, Raleigh, NC, Nov 16-17.

4. Ownley, B.H. 2001. Effect of plant-growth-promoting bacteria on growth, early flowering, and yield of field tomatoes. Southern Regional Project S-302 Annual Mtg, Knoxville, TN, Nov 17-18.
5. Ownley, B.H. 1999. Growth promotion of tomato with bacteria. Southern Regional Project S-269 Annual Mtg, Tifton, GA, Nov 7-8.
6. Ownley, B.H. 1998. Effect of biologicals on yield and disease of tomatoes. Southern Regional Project S-269 Annual Mtg, Las Vegas, NV, Nov 6-7.
7. Ownley, B.H., J.E. Follis*, and M.A. Newman. 1997. Effect of cultural practices and cultivar on sudden death syndrome of soybean. Southern Regional S-269 Project Annual Mtg, Charleston, SC. (Presenter)
8. Ownley, B.H., and B.L. Clark*. 1996. Effect of sticker type and concentration, and storage time and temperature on survival of *Pseudomonas* sp. MF103 on wheat seed. Joint Regional Biocontrol Conference and Southern Regional Project S-269 Annual Mtg, San Diego, CA. (Presenter)

Technological advances

1. Labbe, N., B.H. Ownley, K.D. Gwinn, N. Moustaid-Moussa, and D.H. D'Souza. 2013. Antimicrobial and anti-inflammatory activity of switchgrass-derived extractives. Application for United States Letters Patent filed 11/13/2013 as Serial No. 14/079,015.
2. Provisional patent App. No. 61/726,000 - Labbé, N., B.H. Ownley, K. Gwinn, N. Moustaid-Moussa, and D. D'Souza. 2012. Anti-inflammatory and antimicrobial properties of switchgrass extracts.
3. Intellectual property disclosure – Labbé, N., N. Moustaid-Moussa, D. D'Souza, B.H. Ownley, K.D. Gwinn. 2012. Anti-inflammatory properties of switchgrass extracts.
4. Intellectual property disclosure – Labbé, N., B.H. Ownley, K.D. Gwinn, D. D'Souza, N. Moustaid-Moussa. 2012. Switchgrass extracts against animal and plant pathogens.
5. Intellectual property disclosure – Trigiano, R.N., B.H. Ownley. 2006. Food dye kit for illustrating the principles of gel electrophoresis and DNA fingerprinting.
6. Intellectual property disclosure PD06056 - Ownley, B.H., R.M. Pereira. 2005. Use of *Beauveria bassiana* as a seed treatment for protection of plants against soilborne plant pathogens, heat stress, and damage by chewing insects.

Grants, Contracts, and Gifts (Federal, State, Industry, Foundations, UT-Knoxville, UT Institute of Agriculture; Total = \$2,942,401; only grants and contracts funded since 2010 are listed.

1. Butler, D., and B. H. Ownley. 2014. On-farm demonstrations of anaerobic soil disinfestation (ASD) for management of soil-inhabiting pests and pathogens. USDA-ARS-Southern Plains Agricultural Research Center. \$70,000.
2. Ownley, B.H., B. Brown. 2013. Efficacy of chemical seed treatments for control of *Fusarium graminearum* and other fungal pathogens of wheat. Chemtura, Inc. \$7,000.
3. Ownley, B.H. Travel award from UTIA AgResearch to present a paper at a professional meeting with abstract. 03/26/2013. \$1,500.
4. Ownley, B.H. 2013. Soilborne Diseases Gift Account. \$1,800.
5. Ownley, B.H. 2013. Soilborne Diseases Gift Account. \$2,500.
6. Hensley, D., B. Ownley, D. Lockwood. 2013. Chokeberry and Stevia: Two potential

- specialty crops for Tennessee. \$24,584
7. Labbé, N., D. Baker, B. Ownley, K. Gwinn, D. D'Souza, and N. Moustaid-Moussa. 2013. Adding value to switchgrass biofuel production by use of the non-structural compounds. USDA-AFRI. \$489,954.
 8. Labbé, N., K. Gwinn, B. Ownley, D. D'Souza, R. Gonzalez, N. Moustaid-Moussa 2013. Adding value to switchgrass biofuel production by removal and utilization of the non-structural compounds. Southeastern Regional Sun Grant Center. \$135,000.
 9. Ownley, B.H., N. Labbé, K. Gwinn, D. D'Souza, and N. Moustaid-Moussa. 2012. Development of switchgrass extractives as a value-added biopesticide. UTRF Annual Maturation Fund. \$15,000.
 10. Ownley, B.H. 2012. Soilborne Diseases Gift Account. \$2,500.
 11. Ownley, B.H., and R.N. Trigiano. 2012. Soilborne and seedborne pathogens of switchgrass. Southeastern Partnership for Integrated Biomass Supply Systems. USDA-AFRI. \$74,540.
 12. Butler, D. , B. Ownley, A. Wszelaki, M. Velandia, W. Hitch, and sub-contract to USDA-ARS, Fort Pierce, FL (E.N. Roskopf, N.K. Burelle, J. Hong, J. Albano, J. Narciso, J. Jones, F. Sances, and J. Ivey). 2012. Overcoming obstacles to adoption of anaerobic soil disinfestation. USDA-NIFA. \$421,084.
 13. Bernard, E. and B.H. Ownley. 2012 Consulting services involving reniform nematode and fungal pathogens of cotton. Phenotype Screening Corporation. \$5,000.
 14. Ownley, B.H., R.N. Trigiano, K.D. Gwinn, and P. Wadl. 2011. Toward development of disease resistant varieties of switchgrass. UTIA SunGrant Center. \$52,423.
 15. Ownley, B.H. 2011. Soilborne Diseases Gift Account. \$2,000.
 16. Bernard, E. C. and B. H. Ownley. 2011. Consulting services involving root-knot nematode and fungal pathogens. Phenotype Screening Corporation through grant from Cotton, Inc. \$4,655.
 17. Gwinn, K.D., D. Butler, E.C. Bernard, D. Deyton, D. Kopsell, B.H. Ownley, and C. Sams. 2010. Characterization of tomato rootstocks and grafted tomatoes to improve disease resistance and fruit quality. UTIA AgResearch and Extension Innovation Fund. \$50,000.
 18. Lockwood, D.W., D.D. Hensley, B.H. Ownley, and R.N. Trigiano. 2011. Olives and truffles: two potential specialty crops for Tennessee. Tennessee Department of Agriculture, Market Development. \$25,000.
 19. Gwinn, K.D., B.H. Ownley, and R.D. Miller. 2010. Relationship(s) between altered nitrogen metabolism and low TSNA – Year 2. PM-International, \$47,272.
 20. Labbé, N., N. Moustaid-Moussa, D. D'Souza, B. Ownley, K. Gwinn, and P. Filson. 2010. Extractives in switchgrass: an inhibitor for biofuels production or/and a source of value added products? UT AgResearch and Extension Innovation Fund. \$25,000.
 21. Gwinn, K.D., B.H. Ownley, and R.D. Miller. 2009. Relationship(s) between altered nitrogen metabolism and low TSNA, PM-International. \$66,960.
 22. Hajimorad, R, I. Tzanetakis, B. Ownley, and M. Newman. 2011. Identification and development of diagnostic assays for the causal agent of a new virus disease of soybean. Tennessee Soybean Promotion Board. \$24,010.

23. Gwinn, K.D. and B.H. Ownley. 2010. Mycorrhizae for increased wheat production in rotations with grain sorghum, an allelopathic crop. UT AgResearch and Extension Innovation Fund \$14,000.
24. Hajimorad, R, I. Tzanetakis, B. Ownley, and M. Newman. 2010. Identification and development of diagnostic assays for the causal agent of a new virus disease of soybean. Tennessee Soybean Promotion Board. \$24,010.
25. Ownley, B.H. and K.D. Gwinn. 2010. Fungal pathogens of switchgrass. UT AgResearch and Extension Innovation Fund. \$13,874.