

**CURRICULUM VITAE****FOSTER LEVY, PH.D.**

**DEPARTMENT OF BIOLOGICAL SCIENCES  
EAST TENNESSEE STATE UNIVERSITY  
JOHNSON CITY, TENNESSEE 37614  
423-434-9544  
LEVYF@ETSU.EDU**

**EDUCATION**

- 1989            Ph.D., Duke University, Major-Botany and Genetics  
                  Thesis: *Mechanisms of speciation in Phacelia*  
                  (Best Dissertation Award, Department of Botany)
- 1978            M.A., City College of New York, Major-Biology, Emphasis-Botany  
                  Thesis: *Old-field succession in Pelham Bay Park, New York*
- 1974            B.A., City College of New York, Major-History, Minor-Political Science

**EMPLOYMENT EXPERIENCE****Professor Emeritus**

East Tennessee State University  
Dept. of Biology, Johnson City, TN 37614  
Dates: 01/2015 - present

**Professor of Biology and Director, Office of Undergraduate Research & Creative Activities**

East Tennessee State University  
Dept. of Biology and Honors College, Johnson City, TN 37614  
Dates Employed: 08/1989 - 12/2015

**Research Associate**

James H. Quillen Veterans Affairs Medical Center, Mountain Home, TN 37684  
WOC (without compensation appointment): 2000 - 12/2015

**Graduate Assistant**

Duke University, Dept. of Botany, Durham, NC 27708  
Dates Employed: 08/1984-07/1989

**Botanical Consultant**

Alpha Engineering, Pikeville, KY 41501  
Dates Employed: 04/1983-08/1984

**Vegetation Specialist**

Pikeville College  
Coal Industry Technical Assistance Center and Dept. of Biology, Pikeville, KY 41501  
Dates Employed: 02/1979-08/1984

**Freshwater Wetlands Analyst**

Dutchess County Cooperative Extension, Millbrook, NY  
Dates Employed: 05/1983-10/1984

**PEER-REVIEWED PUBLICATIONS - RESEARCH (student and medical fellow authors underlined)**

- Levy, F.**, and J.T. Donaldson. 2018. Morphology, geographic distribution, and conservation of the Southern Appalachian endemic, *Solidago lancifolia* (Torrey & A. Gray) Chapman (Asteraceae). J. Torr. Bot. Soc. 145:281-295.
- Levy, F.**, and J.T. Donaldson. 2018. Additions to the vascular flora of the Rocky Fork Tract, Tennessee, USA. J. Bot. Res. Inst. Texas 12:373-375.
- Ingram, R.I., J.T. Donaldson, and **F. Levy**. 2018. Impacts, prevalence, and spatio-temporal patterns of lily leaf spot disease on *Lilium grayi* (Liliaceae), Gray's lily. J. Torrey Bot. Soc. 145:296-310.
- Ingram, R.I., **Levy, F.**, Barrett, C.L., and J.T. Donaldson. 2017. Mining herbaria for the historic prevalence of lily leaf spot disease (*Pseudocercospora inconspicua*) on Gray's Lily (*Lilium grayi*) and Canada Lily (*L. canadense*). Rhodora 119:163-173.
- Levy, F.**, and E.S. Walker. 2016. Vascular flora of the Rocky Fork Tract, Tennessee, USA, and its use in conservation and management. J. Bot. Res. Inst. Texas 10:547-567.
- Levy, F.**, Wagner, D.L., and E.S. Walker. 2016. Lettered Sphinx Moth (*Deidamia inscripta*) caterpillars feeding on sourwood (*Oxydendrum arboreum*) and their predation by black bears in northeast Tennessee. Southeastern Naturalist 15:394-402.
- Ratliff, W.S., Walker, E.S., and **F. Levy**. 2015. Population demographics and disease assessments in three Tennessee populations of *Buckleya distichophylla* (Nutt.) Torr. (Santalaceae). Castanea 80:243-252.
- Levy, F.**, and E.S. Walker. 2014. Pattern and rate of decline of a population of Carolina Hemlock (*Tsuga caroliniana* Engelm.) in North Carolina. Southeastern Naturalist 13 (Special Issue 6):46-60.
- Dinkins, Z.C., Nandi, A., **Levy, F.**, and J. Donaldson. 2014. Surface soil properties of alder balds (*Alnus viridis* ssp. *crispa*) with respect to grassy and woody vegetation on Roan Mountain, Tennessee. Southeastern Naturalist 13:377-395.
- Suzanne J.C. Verhaegh S.J.C., Snippe M.L., **Levy F.**, Verbrugh H.A., Jaddoe V.W.V., Hofman A., Moll H.A., van Belkum A., and J.P. Hays. 2011. Colonization of healthy children by *Moraxella catarrhalis* is characterized by genotype heterogeneity, virulence gene diversity, and co-colonization with *Haemophilus influenzae*. Microbiology 157:169-78.
- Glass, P.M. and **F. Levy**. 2011. Correspondence of morphology, phylogeny and reproductive barriers in *Phacelia* subgenus *Cosmanthus* (Hydrophyllaceae). J. Torr. Bot. Club 138:348-352.
- Shams W., E.S. Walker, **F. Levy**, S.A. Reynolds, S.M. Peterson, and F.A. Sarubbi. 2010. Comparative activity of telavancin and other antimicrobial agents against MRSA isolates collected from 1991 to 2006. Chemotherapy 56:411-416.
- Khan, M.A., Northwood, J.B., **Levy, F.**, Verhaegh, S.J.C., Farrell, D.J., van Belkum, A. and J.P. Hays. 2010. beta-lactamase and antibiotic resistances in a global cross-sectional study of *Moraxella catarrhalis* from children and adults. J. Antimicrob. Chemother. 65:91-97.

- Lusk, L., Mutel, M. Walker, E.S. and **F. Levy**. 2010. Forest change in high elevation forests of Mt. Mitchell, North Carolina: Re-census and analysis of data collected over 40 years. pp. 104–112 in, Proceedings of the Symposium on High Elevation Forests in the Central and Southern Appalachians, Snowshoe, WV.
- Leman, S., **Levy, F.** and E.S. Walker. 2009. Modeling the spread of infectious disease using genetic information within a marked branching process. *Statistics in Medicine* 28:3626–42.
- Hussein, R., Khan, S., **Levy, F.**, Mehta, J. and F.A. Sarubbi. 2009. Blastomycosis in the mountainous region of northeast Tennessee. *Chest* 135:1019–1023.
- Levy, F.**, Leman, S., Sarubbi, F. A. and E. S. Walker. 2009. Nosocomial transmission clusters and risk factors in *Moraxella*. *Epidemiology & Infection* 137:581–590.
- Van Dort, M., Walden, C., Walker, E.S., Reynolds, S.A., **Levy, F.** and F.A. Sarubbi. 2007. An outbreak of infections caused by non-typeable *Haemophilus influenza* in an extended care facility. *J. Hospital Infection* 66:59–64.
- Yates, D. I., Earp, B. L., Walker, E. S. and **F. Levy**. 2006. Propagation of *Sciadopitys verticillata* (Thunb.) Sieb. & Zucc. by stem cuttings and properties of its latex-like sap. *HortScience* 41:1662–1666.
- Reynolds, S. A., **Levy, F.** and E. S. Walker. 2006. Hand sanitizer alert. *Emerging Infectious Diseases* 12:527–529. [Featured in NY Times, carried by CBC, NPR, CNN, several more local radio stations and newspapers; re-published in, *J. Environ. Health* 69:48 (Nov. 2006)]
- Levy, F.** and E. S. Walker. 2004. BRO  $\beta$ -lactamase alleles, antibiotic resistance, and a test of the BRO-1 selective replacement hypothesis in *Moraxella catarrhalis*. *J. Antimicrob. Chemother.* 53:371–374.
- Walker, E. S., **Levy, F.**, Shorman, M., David, G., Abdalla J. and F. A. Sarubbi. 2004. A decline in mupirocin resistance in methicillin-resistant *Staphylococcus aureus* accompanied administrative control of prescriptions. *J. Clin. Microbiol.* 42:2792–2795.
- Taylor, S. I. and **F. Levy**. 2002. Responses to soils and a test for preadaptation to serpentine in *Phacelia dubia* (Hydrophyllaceae). *New Phytologist* 155:437–447.
- Walker, E. S. and **F. Levy**. 2001. Genetic trends in a population evolving antibiotic resistance. *Evolution* 55:1110–1122.
- Levy, F.** and K. A. Malone. 2001. *Phacelia dubia* in South Carolina: The interface of morphology, genetics and taxonomy. *Castanea* 66:134–144.
- Walker, E. S., Neal, C. L., Laffan, E., Kalbfleisch, J. K., Berk, S. L. and **F. Levy**. 2000. Long-term trends in susceptibility of *Moraxella catarrhalis*: A population analysis. *J. Antimicrob. Chemo.* 45:175–182.
- Levy F.** and C. L. Neal. 1999. Spatial and temporal genetic structure in chloroplast and allozyme markers in *Phacelia dubia* implicate genetic drift. *Heredity* 82:422–431.
- Levy, F.** 1997. Non-homeotic meristic flower mutants in *Phacelia dubia*. *J. Heredity* 88:31–37.

- Levy, F. 1997. Book Review: *Conservation Biology in Theory and Practice*. Theoret. Pop. Biol. 51:253–255.
- Levy, F., Antonovics, J., Boynton, J. E. and N. W. Gillham. 1996. A population genetic analysis of chloroplast DNA in *Phacelia*. Heredity 76:143–155.
- Moore, D., Mullins, D. and F. Levy. 1994. Pollen and pubescence characteristics of *Oxalis grandis* Small. Rhodora 96:311–326.
- Levy, F., and D. Moore. 1993. Population variation in leaflet sleep movements in *Oxalis grandis* (Oxalidaceae). Amer. J. Bot. 80:1482–1493.
- Levy, F. 1991. A genetic analysis of reproductive barriers in *Phacelia dubia*. Heredity 67:331–345.
- Levy, F. 1991. Morphological differentiation in *Phacelia dubia*. Rhodora 93:11–25.
- Levy, F., and R. L. Wilbur. 1990. Disjunct populations of the alleged serpentine endemic, *Aster depauperatus* (Porter) Fern., on diabase glades in North Carolina. Rhodora 92:17–21.
- Levy, F. 1988. Effect of pollen source and time of pollination on seed production and seed weight in *Phacelia dubia* and *P. maculata* (Hydrophyllaceae). Amer. Midl. Nat. 119:193–198.
- Levy, F. 1984. Demography of sweet buckeye seeds and seedlings. Bull. Torr. Bot. Club 111:307–315.
- Levy, F., King, V., Phillips, T. and D. White. 1983. Ferns and fern allies of Pike County, Kentucky. Trans. Ky. Acad. Sci. 44:14–16.
- Levy, F. 1981. Establishment and growth of woody plants on rock and rock debris in eastern Kentucky. Trans. Ky. Acad. Sci. 42:110–115.

#### PEER-REVIEWED PUBLICATIONS - TEACHING (student authors underlined)

- Levy, F., Pyles, R., Szarejko, C., and L. Wyatt. 2012. Developing an electronic repository for undergraduate theses. Honors in Practice 8:135–146.
- Wilson, K., Crowe, M., Singh, J., Stamatoplos, A., Rubens, E., Gosney, J., Dimaculangan, D., Levy, F., Zrull, M. and Pyles, R. 2009. Using electronic portfolios to objectively measure student gains from mentored research. CUR Quarterly 29:26–32.
- Johnson, D. M., Levy, F., Karsai, S. and S. Stroud. 2006. Turning the potential liability of large enrollment laboratory science courses into an asset. The Journal of College Science Teaching 35:47–51.
- Levy, F. and T. McDowell. 2004. A campus arboretum can support the teaching of biological concepts. Arnoldia 63:2–12.
- Levy, F., Hill, S. and T. McDowell. 2001. Wind-stress: An experimental investigation into the structure-function relationship of leaf architecture. Amer. Biol. Teacher 63:124–127.
- Levy, F. 2000. An inquiry-based introduction to molecular biology. Amer. Biol. Teacher 62:262–265.

Levy, F. and D. Benner. 1995. Using ribbon models of chromosome modifications to explore the process of meiosis. *Amer. Biol. Teacher* 57:532–535.

#### BOOK CONTRIBUTIONS AND INVITED PAPERS

Winkler W, R Pyles, F. Levy. 2010. Using Radio to Publicize Undergraduate Research at East Tennessee State University. In, J. Kinkaid and S. Pedigio, *Advancing Undergraduate Research: Public Relations, Marketing, and Fund-raising*. CUR Press, Washington.

Pyles, R. A. and F. Levy. 2008. Opening the Door to Early Student Involvement in Scholarly Activity: Coordinating Efforts and Providing Financial Support. In, Wesemann, J. and M. Boyd eds., *Broadening Participation in Undergraduate Research: Fostering Excellence and Enhancing the Impact*, Council on Undergraduate Research Press, Washington, DC.

Levy, F. 2008. Spread of hemlock woolly adelgid in Carolina hemlock populations. *Appalachian Highlands Science Journal*.

Levy, F., Baker, J., Chen, K., Cooke, G., Liu, Y-S., Walker, E.S. and T. McDowell. 2008. Patterns of spread of hemlock woolly adelgid. *Proceedings of the 4<sup>th</sup> Hemlock Woolly Adelgid Symposium*, Hartford, CT.

Levy, F. 2006. Pre-Columbian communities. Entry in, *Encyclopedia of Appalachia*, University of Tennessee Press, Knoxville, TN.

Levy, F. 2006. Disjunction. Entry in, *Encyclopedia of Appalachia*, University of Tennessee Press, Knoxville, TN.

#### LAB MANUALS

Levy, F. and D. Benner. 1994 (and revisions). *Genetics Problem Manual*. Published for ETSU.

Johnson, D.M. and F. Levy. 1999 (and revisions). *Laboratory Manual for Biology III*. Published for ETSU

#### EXTRAMURAL AWARDS - FUNDED

2018 Friends of Roan Mountain - *Flora of Roan Mountain, NC/TN* (\$1700, w/ M. Permenter, J. Donaldson, **funded**)

2015 Friends of Roan Mountain - *Range-wide Prevalence and Impacts of the Lily Leaf Spot Disease (*Pseudocercospora inconspicua*) on Gray's Lily (*Lilium grayi*) with an Assessment of Turk's Cap Lily (*Lilium superbum*) and Michaux's Lily (*Lilium michauxii*) as Disease Reservoirs* (\$800, w/ C. Barrett, J. Donaldson, **funded**)

2013 The Nature Conservancy - *Community Analysis and Floristic Survey of Doe Mountain, Johnson County, Tennessee* (\$2800+ vehicle and equipment, w/ A. McCullough, **funded**)

2013 Appalachian Trail Conference - *Population Trends and Disease Management of Gray's Lily on Roan Mountain* (\$1700, **funded**)

- 2012 Irricept Corporation - *Effects of One Time Chlorhexidine Use for Abdominal Washout at the End of Bowel Surgery in Mice* (\$33,000, w/ W. Shams and others, **funded**)
- 2012 Appalachian Trail Conference - *Demography and Disease of Gray's Lily on Roan Mountain* (\$1300 w/ R. Ingram, J. Donaldson, J. Powell, **funded**)
- 2012 Friends of Roan Mountain - *Surface soil properties changes in Alder Balds (*Alnus viridis* ssp. *crispa*) with respect to grassy and woody vegetation on Roan Mountain* (\$720 w/A. Nandi, J. Donaldson, Z. Dinkins, **funded**)
- 2011 TWRA (Tennessee Wildlife Resources Agency) - *Exotic Control, Hemlock Preservation, and Rare Fauna Survey in Roan Mountain State Park* (PI) (\$7700 **funded**)
- 2011 Acres for America Grant - (\$400,000, **funded**) contributed component to Rocky Fork Preservation
- 2011 NSF - *Digitization TCN: Collaborative Research: SouthEast Regional Network of Expertise and Collections-All Taxa* (co-investigator, Z. Murrell, PI) (\$1.8M, \$145K for ETSU; multiple Co-PIs; **not funded**)
- 2011 Appalachian Trail Conference - *Demography and Disease of Gray's Lily on Roan Mountain* (\$800 w/ R. Ingram, J. Donaldson, J. Powell, **funded**)
- 2011 Translation Science Institute, NIH via Wake Forest University - *Efficacy of the standard antibiotic dosage in obese patients* (\$5000 w/Jim Myers, others; **funded**)
- 2010 Cubist Pharmaceuticals - *Daptomycin Use For Antimicrobial Prophylaxis In Orthopedic Prosthetic Joint Surgery* (collaborator w several co-PIs; W. Shams-PI). **funded** \$400,000 (\$10,000 to Biological Sciences/FL)
- 2010 Friends of Roan Mountain - *Effects of browsing on Gray's lily (*Lilium grayi*) on Roan Mountain, Tennessee* (\$700 w/J. Donaldson, J. Powell, **funded**)
- 2009 American Conifer Society - *Conifers: Biogeographic relationships and dwarf selections* (\$3000, w/T. McDowell)
- 2007 National Park Service - *Genetic and morphological diversity in Carolina hemlock populations* (\$2000, three co-PIs)
- 2007 Harris Fund for Washington County - *Color Guidebook to the ETSU Arboretum* (\$1300, w/ T. McDowell)
- 2006 Theravance Pharmaceuticals - *Long-term trends in susceptibility of MRSA to five antiimicrobial agents* (\$57,000, three co-PIs)
- 2006 NSF, *Using electronic portfolios to assess student learning as a result of undergraduate research* (\$435,000, senior personnel with seven co-PIs)
- 2005 Institute of Museum and Library Studies - *Museum Assessment Program* (\$2350)
- 2004 Epidemiology Research and Information Center, Seattle VA Medical Center, *Probability-based Approaches to the Analysis of Nosocomial Infections*, (co-PI with E. Walker) (\$11,500)
- 2003 Stanley Smith Horticultural Trust, *East Asia-Eastern North America Arboretum Theme Plantings*, (co-PI with T. McDowell) (\$19,000)

- 2002 Harris Fund, East Tennessee Foundation, *Trees for Tomorrow in Upper East Tennessee*, (co-PI with T. McDowell) (\$4,000)
- 2002 Tennessee Division of Forestry, *Building a Community Arboretum* (co-PI with T. McDowell) (\$18,800)
- 2001 Tennessee Division of Forestry, *ETSU Arboretum: A Community Urban Forestry Demonstration Project* (co-investigator with T. McDowell, K. Moore) (\$10,000)
- 2000 Howard Hughes Foundation, *Enhancing Undergraduate Education in Biological Sciences: Implementing Scientific Inquiry and Crossing Barriers at East Tennessee State University* (six co-PIs) (\$700,000)
- 1999 Eisenhower Program via Tennessee Higher Education Committee, *Using State and National Science Standards as Pathways to Teach Botany Activities* (co-PI with J. Rhoton) (\$22,000)
- 1997 Eisenhower Program via Tennessee Higher Education Committee - *Ecological Concepts: Complementary Laboratory and Field Approaches* (co-PI with J. Rhoton) (\$25,572)
- 1995 Eisenhower Program via Tennessee Higher Education Committee - *Molecular Biology: Basic Principles of Biotechnology* (with J. Rhoton, H. Miller, L. Pike) (\$31,000)
- 1993 NIH, AREA Program - *Localization of Factors Causing Hybrid Sterility in Phacelia*. (\$95,850)
- 1993 NSF, Instrumentation for Laboratory Instruction Program - *Genome Organization as a Unifying Theme in Molecular Biology* (PI with three co-PIs). (\$31,180)
- 1988 Genetics Society of America, Graduate Student Travel Award - (\$600)
- 1987 NSF Dissertation Improvement Award - (\$7000)
- 1987 Sigma Xi, Grant-in-aid of Research - *Chloroplast DNA in Phacelia dubia*. (\$500)
- 1984 NIH Traineeship in Genetics

**INTERNAL GRANTS - FUNDED**

- 2011 RDC Small Grant - Diagnosis and population impacts of a fungal disease of Gray's lily (\$1100)
- 2009 Student-Faculty Collaborative Grant - *Exhibit for Mt. Mitchell Museum* (with three students) (\$1000)
- 2005 IDC - *Incorporating fascinating woody plants into student examinations of genetically-determined morphological variation* (\$3760)
- 2003 RDC Major Grant - *Potential for transfer of antibiotic resistance and heteroresistance between Staphylococcus aureus and coagulase-negative Staphylococcus* (with F. Sarubbi) (\$6000)
- 2003 RDC Small Grant - *The cost of antibiotic resistance in Staphylococcus* (\$1000)
- 2000 RDC Small Grant - *Allelic variation in antibiotic resistance* (\$1000)
- 1999 Presidential Grant-in-Aid - To attend Molecular Evolution Workshop, North Carolina State University (\$600)

- 1998 Presidential Grant-in-Aid - Support for Southeastern Population Genetics and Ecology Annual Meeting (\$1000)
- 1997 Presidential Grant-in-Aid - To attend Conservation Biology Workshop, Harvard University
- 1997 Instructional Development Committee - Genetics problem manual and study guide (\$1000)

**PRESENTATIONS-PAST EIGHT YEARS (student authors underlined)**

- 2016 Dept. of Biological Sciences, East Tennessee State University, Johnson City, TN
- 2015 National Honors Society, Chicago, IL. (w/W. Ratliff)
- 2014 Tennessee Academy of Science, Morristown, TN (w/R. Smucker)
- 2013 US Forest Service/Appalachian Trail Conference (w/ R. Ingram-presenter, J. Donaldson), Asheville, NC
- 2013 Southeast Region Phytopathology Society (w/ R. Ingram-presenter), Baton Rouge, LA
- 2013 Friends of Roan Mountain Fall Rally, Roan Mountain, TN
- 2012 US Forest Service/Appalachian Trail Conference (w/ R. Ingram-presenter, J. Donaldson), Asheville, NC
- 2012 American Geological Society (w/Z. Dinkins-presenter; A. Nandi, J. Donaldson)
- 2011 National Collegiate Honors Council (w/R. Pyles-presenter), Phoenix, AZ.,
- 2010 Tennessee Academy of Sciences (w/ J. Donaldson, J. Powell, T. Eastin, R. McCoy)
- 2010 Tennessee Academy of Sciences (w/ J. Powell-student presenter, J. Donaldson)
- 2010 Quillen COM Undergraduate Summer Symposium (w/ F. Sarubbi, L Brooks, student presenter)
- 2010 Posters-at-the-Capitol (L. Lusk student presenter)
- 2010 Association of Southeastern Biologists, Asheville, NC (w/ J. Donaldson, T. Eastin)
- 2010 Appalachian Research Symposium, Johnson City, TN (w/ L. Lusk, M. Mutel, E. Walker)
- 2009 Invited Presentation, American Conifer Society (w/ T. McDowell)
- 2009 Presentation, Southern Appalachian High Elevation Forest Symposium (w/ L. Lusk, M. Mutel, E. Walker)
- 2009 Invited Seminar, Gray Fossil Site and Natural History Museum, Gray, TN
- 2008 Invited Seminar, Virginia Tech, Dept. of Statistics
- 2008 Invited Presentation, American Conifer Society (w/ T. McDowell)
- 2008 Invited Presentation, Hemlock Woolly Adelgid Conference, Hartford, CT



- 2008 Invited Panelist, Hemlock Woolly Adelgid strategy Session, Clinch Coalition, Dungannon, VA
- 2008 Workshop Organizer, CUR Conference, St. Benedict's College, MN
- 2008 Seminar, ETSU Environmental Studies and Center for Appalachian Studies
- 2007 Presentations, Southern Appalachian Man and the Biosphere Conference, (two oral presentations: w/ Zimmerman, McDowell; w/Baker, Chen, Cooke, Liu, McDowell)
- 2007 Presentation, Northeast Tennessee Nursery Association
- 2007 Presentation, Botanical Society of America meeting, Chicago (w/T. McDowell, M. Zimmerman)
- 2006 Posters, American Society for Microbiology, Orlando, FL (May 2006) (three abstracts with three students)
- 2005 Seminar, Division of Infectious Diseases, James H. Quillen VA Medical Center and James H. Quillen College of Medicine
- 2005 Seminar, Dept. of Biological Sciences, ETSU
- 2005 Presentation, Workshop on Mathematical Tools and Statistical Techniques for Quantitative Medical Data Analysis (w/three others)
- 2005 Posters, Research Forum, ETSU (D. Barnard, S. Reynolds; co-authored poster under my direction, but I was not a poster author)
- 2004 Poster, Infectious Diseases Society of America, Boston, MA (w/others including three student/fellow authors)
- 2004 Poster, Research Forum, ETSU (w/M. Saad, S. Reynolds, others), 1<sup>st</sup> place
- 2003 Seminar: Dept. of Biological Sciences, ETSU
- 2003 Poster, Infectious Diseases Society of America (w/others), San Diego, CA
- 2002 Seminar: Dept. of Internal Medicine, ETSU (w/ F. Sarubbi, E. Walker)
- 2002 Poster, Tennessee Academy of Science, Johnson City, TN. (w/ J. Fairman, E. Walker), 1<sup>st</sup> place
- 2002 Poster, American Society for Microbiology, Utah (w/ R. Rice, E. Walker)
- 2002 Poster, American Society for Microbiology, Utah (w/ E. Walker, et al.)
- 2002 Seminar: Virginia Tech, Dept. of Biology (seminar w/ E. Walker)
- 2002 Poster, Research Forum, ETSU (w/ E. Walker, et al.)
- 2002 Poster, Research Forum, ETSU (w/ S. Lee, E. Walker)
- 2001 Southeastern Ecological Genetics Group, Danbury, VA. (w/ R. Rice, E. Walker)
- 2001 Society for the Study of Evolution, Knoxville, TN. (w/ E. Walker)
- 2001 Society for the Study of Evolution, Knoxville, TN. (w/ D. Medford, T. McDowell)
- 2001 Research Forum, ETSU (w/ E. Walker, R. Rice)
- 2001 Tri-Beta Biological Soc., New Orleans (w/ E. Walker, R. Rice) 1<sup>st</sup> place

- 2001 Undergraduate Research Forum, Lexington, KY. (w/ D. Johnson)
- 1999 Southeastern Ecological Genetics Group, Mtn Lake, VA. (w/ S. Reynolds, E. Walker)
- 1999 Association of Southeastern Biologists (w/ K. Malone) (invited symposium speaker)
- 1998 Southeastern Ecological Genetics Group, Abingdon, VA (w/ C. Neal)
- 1997 Southeastern Ecological Genetics Group, Townsend, TN (w/ E. Walker)
- 1997 McNair Forum, Knoxville, TN (w/ R. Franklin, E. Walker)
- 1997 Assoc. of Southeastern Biologists (w/ C. Neal)
- 1997 Assoc. of Southeastern Biologists (w/ K. Wallwork, E. Walker) (2<sup>nd</sup> prize, student)
- 1996 Seminar: Dept. of Biology, Western Kentucky University

### STUDENTS SUPERVISED

M.S.: 11 graduated (2006, 2013 graduates: ETSU Outstanding Thesis in Sciences; 2007, 2013, 2015, 2017 graduates: Marcia Davis Award)

Undergraduate: 30+ in past twenty years

Medical Fellows (Infectious Diseases): 5 (co-research supervisor)

#### Recent Thesis Students Supervised:

STUDENT	DEGREE	YEAR	CURRENT POSITION	LOCATION
Cindy Barrett	M.S.	2017	Pending	
Seth Ratliff	B.S. (Honors)	2016	Environmental Consulting Firm	Mountain City, TN.
Russell Ingram	M.S.	2014	Ph.D., Plant Pathologist, Monsanto	Athens, GA
Adam McCullough	M.S.	pending	Botanist, BLM	Miles City, MT.
Mary Dupre	B.S.	2013	M.S. student, U. MT.	Missoula, MT.

### PROFESSIONAL ACTIVITIES

2018-present Editorial Board, Journal of the Torrey Botanical Society

2017-present Board of Editors, Southeastern Naturalist

2016-present Member, Tennessee Plant Protection Alliance

2014-2017 Member, Rocky Fork State Park advisory committee

2006-2014 Organized Annual Undergraduate Research Symposium

2006-2014 Appalachian Research Forum task force member

2008-9 Organized Coniferous and Deciduous Tree Evaluations for ETSU Arboretum

2008 Prepared application to American Conifer Society for ETSU Arboretum to become a Reference Garden

2008 Search Committee, ETSU Vice Provost for Research and Sponsored Programs  
2008 Search Committee, Honors Programs Coordinator  
2007-10 Councilor, Div. of Undergraduate Research, Council on Undergraduate Research  
2007 Organized Coniferous Tree Evaluation for ETSU Arboretum  
2007- Member, ETSU Center of Excellence in Mathematics and Science Education  
2006- Member, Network of Directors of Undergraduate Research  
2006- Research Forum organizing task force, ETSU  
2006- Organizer, ETSU Undergraduate Research Symposium  
2005 Team Leader, ETSU Arboretum Museum Assessment Project  
2002- Member, Northeast Tennessee Nursery Association  
2004-5 Coordinator, Honors-in-Biology  
2004- Science Advisor, ETSU Arboretum  
2000-3 Director, ETSU Arboretum  
2001 Chair, Bioinformaticist Search Committee, Dept. of Biology, ETSU  
2000- Board of Scientific Advisors, Highlands Biological Station, Highlands, NC  
1999- University Libraries Committee (Chair, 1999-2000)  
1999-2001 Organizing Committee, 2001 Meeting of the Society for the Study of Evolution  
1999 Chair, Geneticist Search Committee, Dept. of Biology, ETSU  
1998 Organizer, Southeastern Ecological Genetics Conference, Bristol, VA  
1997-9 ETSU Biosafety Committee (Chair, 1998-1999)  
1996-2001 Correspondent, Environmental News, WETS-FM  
1994- Ad Hoc Reviewer: USDA Competitive Grants; NSF Population Biology  
1995-6 NSF Panel Member, Instrumentation for Laboratory Instruction  
1989- Ad Hoc Reviewer for American Journal of Botany, Evolution, Castanea, others  
1993-6 Research Development Committee, ETSU

**ADMINISTRATIVE EXPERIENCE**

2005-14 Director, Office of Undergraduate Research & Creative Activities, ETSU  
2006-14 ETSU Coordinator, Posters at the Capitol Event (Tennessee Board of Regents Academic Excellence Award, 2007)  
2004-5 Coordinator, Honors-in-Biology  
1999- Director, ETSU Arboretum (Director 1999-2003; Science Advisor 2003-present)  
1989 - Administration of various funded grants as Principle Investigator

**PROFESSIONAL DEVELOPMENT**

- 2017 Course: Insect Identification and Natural History, U. Nebraska (on-line)
- 2010 CPR/First Aid Certification
- 2010 CITI Training; VA Privacy Training
- 2008 Epi Info training course (on-line)
- 2004 Course: Applied Regression Analysis, U. Washington & Seattle VA  
Epidemiological Research Information Center (via Internet)
- 2003 Colloquium: Molecular Medicine, ETSU College of Medicine
- 1999 Course: Molecular Evolution, Workshop in Statistical Genetics, North Carolina  
State University
- 1997 Chautauqua Course: Conservation Biology. Harvard University

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- 2003 Brochure: The Giants of the ETSU Arboretum
- 2003 Audio & Brochure: Coniferous Tree Identification for the Visually Impaired
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