

CURRICULUM VITA

Name Jeffrey Francis David Dean

Work Address Department of Biochemistry, Molecular Biology, Entomology & Plant Pathology
Mississippi State University

Education

Stanford University	B.S.	1980	Chemistry
	B.S.	1980	Biology
Purdue University	Ph.D.	1986	Biochemistry

Research and Professional Experience

2014-present Professor & Head, Department of Biochemistry, Molecular Biology, Entomology & Plant Pathology, Mississippi State University

2013-2014 Acting Director, Institute of Bioinformatics, UGA

2011-2013 Associate Director, Institute of Bioinformatics, UGA

2009-2013 Graduate Coordinator, UGA Bioinformatics Program

2008-2014 Professor, Department of Biochemistry and Molecular Biology, UGA

2006-2014 Professor, Warnell School of Forestry and Natural Resources, UGA

2002-2005 Director, The Plant Center, UGA

2001-2006 Associate Professor, Warnell School of Forest Resources, UGA

1996-2001 Assistant Professor, Warnell School of Forest Resources, UGA

1990-96 Associate Research Scientist, Department of Biochemistry and Molecular Biology, UGA

1986-90 Postdoctoral Researcher (Plant Physiologist, GS-11), U.S. Department of Agriculture, Agricultural Research Service, Plant Hormone Laboratory, Beltsville, MD (James D. Anderson, advisor)

1981-82 Teaching Assistant, Purdue University Biochemistry Program, West Lafayette, IN

1980-86 Research Assistant, Purdue University Biochemistry Program, West Lafayette, IN (Klaus M. Herrmann, advisor)

1978-80 Teaching Assistant, Medical Microbiology and Biology Departments, Stanford University

1977-80 Research Assistant, Medical Microbiology Department, Stanford University, Stanford, CA (Bruce A.D. Stocker, advisor)

Interdisciplinary Program Affiliations

Bioenergy Systems Research Institute, UGA (2010-2014)
Institute of Bioinformatics, UGA (2004-2014)
Biomedical and Health Sciences Institute, UGA (2001-2014)
The Plant Center, UGA (1996-2014)
Center for Metalloenzyme Studies, UGA (1996-2014)
Center for Applied Genetic Technologies, UGA (1999-2006)
Center for Biological Resource Recovery, UGA (1990-2005)

Advisory Boards

Chair, Research Oversight Committee, Genome Canada LSARP Project, “Resilient Forests (RES-For) – Climate, Pests & Policy -- Genomic Applications” (2017-present)
Research Oversight Committee, Genome Canada LSARP Project, “BioSurveillance of Alien Forest Enemies (BioSAFE)” (2017-present)
Advisory Council, USDA Southern Integrated Pest Management Center (2016-present)
Governance Board, Mississippi Science and Engineering Fair, Region V (2015-present)
Executive Vice President, Mississippi Entomological Association (2014-present)
Commissioner’s Advisory Board, Mississippi Department of Agriculture and Commerce, Bureau of Plant Industry (2014 - present)
Executive Board, Mississippi Certified Crop Advisors (2014-present)
Chair, Board of Directors, NSERC Network Project, “Turning Risk Into Action for the Mountain Pine Beetle Epidemic (TRIA)-Net” (2013-2018)
Chair, Scientific Advisory Board, Genome Canada LSARP Project, “Genomics-Based Forest Health Diagnostics and Monitoring” (2013-2015)
Scientific Advisory Board, EU FP7 Project, “Promoting Conifer Genomic Resources (ProCoGen)” (2012-2015)
Board of Directors, Institute for Forest Biotechnology (2008-2011)

Elected Memberships

Member, Gamma Sigma Delta, Honor Society of Agriculture (2018-present)
Fellow, International Academy of Wood Science (2008-present)
Member, Sigma Xi, Scientific Research Honor Society (1987-present)

Honors, Awards, and Fellowships

2012-2013 Fellow, SECU Administrative Leadership Development Program
2011 USDA Secretary’s Honor Award for Excellence, CTGN Project Co-Investigator
1989 USDA Merit Award, Computer Training and Installation
1986-1987 Kinney Postdoctoral Fellowship, USDA/ARS Plant Hormone Laboratory
1981 NSF Graduate Fellowship (Honorable Mention)
1976-1980 National Merit Scholarship (sponsor: Bechtel Corporation)
1976 Presidential Scholar

Grants Awarded (boldface denotes lead or sole PI)

Completed Projects -

09/88 - 09/90 **U.S. Department of Agriculture, CRGO Program, Studies on the biosynthesis of rhamnogalacturonan-II, a cell wall polysaccharide, \$100,000, (JD Anderson, co-PI)**
07/92 - 06/95 U.S. Department of Energy, Energy Biosciences Program, Mechanisms of lignin biosynthesis during xylogenesis, \$319,500, (K-EL Eriksson, PI)
07/93 - 07/95 UGA Biotechnology Award, A regulated promoter for homologous and heterologous gene expression in *Streptomyces*, \$46,700, (J Westpheling, K-EL Eriksson, co-PIs)

- 07/93 - 06/96 Georgia Consortium for Technological Competitiveness in Pulp and Paper, Improved fibers for pulp and paper production through genetic engineering of southern tree species, \$190,030, (K-EL Eriksson, SA Merkle co-PIs)
- 09/93 - 03/96 U.S. Department of Agriculture, NRICGP Program, Cloning of thermostable xylanases for large-scale production and use in pulp bleaching, \$160,000, (K-EL Eriksson, MWW Adams, J Westpheling, co-PIs)
- 07/95 - 06/98 **U.S. Department of Energy, Energy Biosciences Program, Mechanisms of lignin biosynthesis during xylogenesis, \$269,578, (K-EL Eriksson, co-PI)**
- 07/96 - 06/97 **Georgia Consortium for Technological Competitiveness in Pulp & Paper, Molecular methods for the production of sterile trees, \$93,250, (SA Merkle, S Covert, co-PIs)**
- 07/96 - 06/97 Georgia Consortium for Technological Competitiveness in Pulp & Paper, Genetic engineering center of excellence - early flowering, \$100,000, (SA Merkle, S Covert, co-PIs)
- 07/96 - 06/98 **UGA Biotechnology Award, A genetically engineered copper-binding polypeptide for use in phytoremediation, \$71,250, (SA Merkle, co-PI)**
- 07/97 - 06/98 **Georgia Traditional Industries Program in Pulp & Paper (TIP³), Molecular manipulation of reproduction in southeastern tree species of commercial importance, \$160,620, (SA Merkle, S Covert, co-PIs)**
- 07/97 - 06/98 Georgia Research Alliance, Commercial applications in plant biotechnology, \$1.6 M, (L Pratt, G Kochert, R Hussey, W Parrott, S Kresovich, P Ozias-Akins, co-PIs) (Preliminary grant leading to founding of the Center for Applied Genetic Technologies. Subsequent funding of >\$8 million was added in FY99 for construction of a new building.)
- 07/98 - 06/01 **Georgia Traditional Industries Program in Pulp & Paper (TIP³), Identification of loblolly pine genes whose expression patterns are related to variations in wood quality, \$356,707**
- 07/98 - 06/01 Georgia Traditional Industries Program in Pulp & Paper (TIP³), A genetic transformation method for southern pine, \$55,000 (SA Merkle, PI, SF Covert co-PI)
- 07/98 - 06/00 Consortium for Plant Biotechnology Research, Clonal propagation of hybrid southern hardwoods, \$155,250, (SA Merkle, PI)
- 12/98 - 11/01 **U.S. Department of Agriculture, NRICGP Program, Is wood quality influenced by the expression of genes controlling ethylene biosynthesis? \$179,704**
- 01/99 - 12/00 National Science Foundation, Alfred P. Sloan Postdoctoral Fellowship in Molecular Evolution, Was the divergence of lignin-specific laccases concordant with the macroevolution of angiosperm lignin and vascular evolution? \$80,000, (BM McCaig, PI)
- 10/99 - 09/02 **U.S. Department of Energy, Energy Biosciences Program, Structure-function relationships in plant laccases, \$298,307**
- 01/01 - 12/01 **UGARF Faculty Research Grant, A novel iron-uptake pathway in pathogenic *Escherichia coli* O157:H7, \$5,000**
- 07/01 - 06/02 **Georgia Traditional Industries Program in Pulp & Paper (TIP³), Responses of the loblolly pine root transcriptome to environmental challenges, \$210,745**
- 07/01 - 06/02 Georgia Traditional Industries Program in Pulp & Paper (TIP³), The mechanism of *Cronartium* growth stimulation by pine, \$59,479 (SF Covert, PI)
- 07/01 - 06/03 U.S. Environmental Protection Agency, NNEMS Graduate Fellowship (D Ekman, PI), Determination of the effects of energetics and chlorinated compounds on plant gene expression using SAGE, a functional genomics technique, \$50,000
- 10/01 - 09/04 U.S. Department of Agriculture, Initiative for Future Agricultural and Food Systems Program, Allele discovery for genes controlling economic traits in loblolly pine, \$242,448 (subcontract from UC-Davis, DB Neale, PI, Project total \$1,500,000)
- 11/02 - 10/03 **U.S. Department of Energy, Energy Biosciences Program, Understanding the function of laccase-like multicopper oxidases in plants, \$93,000**

- 09/02 - 08/06 **National Science Foundation, Plant Genome Research Program, Transcriptome responses to environmental conditions in loblolly pine roots, \$1,650,000 (LH Pratt, M-M Cordonnier-Pratt, SA Merkle, SF Covert, co-PIs)**
- 07/03 - 06/04 **Georgia Traditional Industries Program in Pulp & Paper (TIP³), Enhanced equipment resources for loblolly pine gene discovery, \$70,000**
- 11/03 - 10/07 **U.S. Department of Energy, Energy Biosciences Program, Localization and function of two multicopper oxidases in *Arabidopsis thaliana*, \$330,000**
- 09/03 - 08/04 **National Science Foundation, Pan-American Advanced Studies Institutes Program, Knowledge discovery in genomic databases: A PASI on data mining applications for genomics and bioinformatics, \$91,380**
- 07/04 - 06/05 Georgia Traditional Industries Program in Pulp & Paper (TIP³), TIP3 Infrastructure Improvements at WSFR, \$7,500
- 09/05 - 08/08 **USDA Forest Service, Agenda 2020 Program, Assessing the impact of intensive forest management practices on wood formation and quality at the level of gene expression, \$369,380**
- 07/06 - 06/09 **Georgia Traditional Industries Program in Pulp & Paper (TIP³), *Sirex noctilio*: Genetic approaches to managing a newly introduced insect pest of North American pines and conifers, \$135,991**
- 06/07 - 05/09 **U.S. Department of Energy, Joint Genome Institute (DOE-JGI), Community Sequencing Program, An expanded EST resource for pines and other conifers**
- 08/07 - 07/11 U.S. Department of Agriculture, Coordinated Agricultural Project, "Conifer translational genomics network CAP," \$50,000 (Subcontract from UC Davis, DB Neale, PI, Project total \$6 million) (Project was awarded a 2011 U.S. Department of Agriculture (USDA) Secretary's Honor Award.)
- 03/08 - 05/10 U.S. Department of Energy, Joint Genome Institute (DOE-JGI), Community Sequencing Program, Advancing pine genomics through targeted and random BAC sequencing, (DG Peterson, PI)
- 10/08 - 09/12 USDA-DOE, Plant Feedstock Genomics Program, Genomics of wood biosynthesis and cellulosic biofuel production in sunflower, \$1,307,440 (SJ Knapp, PI, CJ Nairn, co-PI)
- 08/12 - 07/14 U.S. Department of Agriculture (USDA), NIFA Graduate Fellowship, Critical features of gene response networks in sensitive and insensitive pines exposed to venom of *Sirex noctilio*, an exotic invasive insect threat new to North American forests, \$63,352 (JM Bordeaux, PI)
- 10/15 - 09/16 U.S. Department of Agriculture (USDA-NIFA), AFRI, The Ultracentrifuge System: A Critical Tool to Enhance the Performance of Agricultural Related Research, \$30,338 (Y. Farnell, PI)

Books and Monographs

1. Dean JFD (1986) Regulation of aromatic amino acid biosynthesis in higher plants: The purification and characterization of DAHP synthases from carrots and spinach. Ph.D. Thesis, Purdue University, West Lafayette, IN.
2. Dean JFD (1997) Editor, Proceedings of the 5th International Congress of Plant Molecular Biology, 21-27 September 1997, Singapore. Published by Kluwer Academic Publishers as a Supplement to the Plant Molecular Biology Reporter, vol. 15:3
3. Dean JFD (2001) Editor, Proceedings of the 26th Biennial Southern Forest Tree Improvement Conference, June 26-29, Athens, GA, 236 pp. ([LINK](#))

Research Publications (peer-reviewed publication in boldface, *denotes corresponding author)

Web of Science **h-index=29** Google Scholar **h-index=34**

1. **Suzich JA, Dean JFD, Herrmann KM*** (1985) 3-Deoxy-D-arabino-heptulosonate 7-phosphate synthase from carrot root (*Daucus carota*) is an hysteretic enzyme. *Plant Physiol.* **79**:765-770 ([LINK](#)) ([CITATIONS](#))
2. **Dean JFD, Gamble HR, Anderson JD*** (1989) The ethylene biosynthesis-inducing xylanase: Its induction in *Trichoderma viride* and certain pathogenic fungi. *Phytopathology* **79**:1071-1078 ([LINK](#)) ([CITATIONS](#))
3. **Anderson JD*, Dean JFD, Gamble HR, Mattoo AK** (1989) Induction of synthesis and characterization of the ethylene biosynthesis-inducing xylanase produced by the fungus, *Trichoderma viride*. *In: Biochemical and Physiological Aspects of Ethylene Production in Higher and Lower Plants* (H. Clijsters, M. DeProft, R. Marcelle and M. Van Poucke, Eds.). Kluwer Academic Publishers, Dordrecht, The Netherlands, pp. 49-56 ([LINK](#)) ([CITATIONS](#))
4. **Mattoo AK*, Mehta AM, Dean JFD, Anderson JD** (1989) Regulation of ethylene biosynthesis in higher plants: Induction and identification of 1-aminocyclopropane-1-carboxylate synthase. *In: Cell Separation in Plants: Physiology, Biochemistry and Molecular Biology* (D. J. Osborne and M. J. Jackson, Eds.). NATO ASI Series, Vol. H35, pp. 39-50 ([LINK](#)) ([CITATIONS](#))
5. **Bailey BA, Dean JFD, Anderson JD*** (1990) An ethylene biosynthesis-inducing endoxylanase elicits electrolyte leakage and necrosis in *Nicotiana tabacum* var. Xanthi leaves. *Plant Physiol.* **94**:1849-1854 ([LINK](#)) ([CITATIONS](#))
6. **Anderson JD*, Bailey BA, Dean JFD, Taylor R** (1990) A fungal endoxylanase elicits ethylene biosynthesis in tobacco (*Nicotiana tabacum* L. cv. Xanthi) leaves. *In: Polyamines and Ethylene: Biochemistry, Physiology, and Interactions* (H.E. Flores, R.N. Arteca, J.C. Shannon, eds.) American Society of Plant Physiologists, pp. 146-156 ([LINK](#)) ([CITATIONS](#))
7. **Bailey BA, Dean JFD, Taylor R, Anderson JD*** (1990) A model for host-pathogen interactions in plants: The effects of *Trichoderma viride* EIX on *Nicotiana tabacum* cv. Xanthi. *In: Polyamines and Ethylene: Biochemistry, Physiology, and Interactions* (H.E. Flores, R.N. Arteca, J.C. Shannon, eds.) American Society of Plant Physiologists, pp. 380-381 ([LINK](#)) ([CITATIONS](#))
8. **Dean JFD, Anderson JD*** (1991) The ethylene biosynthesis-inducing xylanases. II. Purification and physical characterization of the enzyme purified from *Trichoderma viride* and cellulysin. *Plant Physiol.* **95**: 316-323 ([LINK](#)) ([CITATIONS](#))
9. **Dean JFD, Gross KC, Anderson JD*** (1991) The ethylene biosynthesis-inducing xylanase. III. Product characterization. *Plant Physiol.* **96**:571-576 ([LINK](#)) ([CITATIONS](#))
10. **Bailey BA, Taylor R, Dean JFD, Anderson JD*** (1991) Ethylene biosynthesis-inducing endoxylanase is translocated through the xylem of *Nicotiana tabacum* cv. Xanthi plants. *Plant Physiol.* **97**:1181-1186 ([LINK](#)) ([CITATIONS](#))
11. **Dean JFD, Mattoo AK*** (1991) The role of ethylene in fruit ripening and senescence. *In: Food Enzymology* (P. F. Fox, Ed.). Elsevier Applied Science, London, pp. 271-301 ([LINK](#)) ([CITATIONS](#))
12. **Dean JFD, Eriksson K-EL*** (1992) Biotechnological modification of lignin structure and composition in forest trees. *Holzforschung* **46**:135-147 ([CITATIONS](#))
13. **Sterjiades R, Dean JFD, Eriksson K-EL*** (1992). Laccase from sycamore maple (*Acer pseudoplatanus*) polymerizes monolignols. *Plant Physiol.* **99**:1162-1168 ([LINK](#)) ([CITATIONS](#))
14. **Sterjiades R, Dean JFD, Gamble G, Himmelsbach D, Eriksson K-EL*** (1993) Extracellular laccases and peroxidases from sycamore maple (*Acer pseudoplatanus*) cell suspension cultures. Reactions with monolignols and dimeric lignin model compounds. *Planta* **190**:75-87 ([LINK](#)) ([CITATIONS](#))
15. **Habu N, Samejima M, Dean JFD, Eriksson K-EL*** (1993) Release of the FAD domain from cellobiose by proteases from cellulolytic cultures of *Phanerochaete chrysosporium*. *FEBS Lett.* **327**:161-164 ([LINK](#)) ([CITATIONS](#))
16. **Li XL, Zhang ZQ, Dean JFD, Eriksson K-EL, Ljungdahl LG*** (1993) Purification and characterization of a new xylanase (APX-II) from the fungus *Aureobasidium pullulans* Y-2311-1. *Appl. Environ. Microbiol.* **59**:3212-3218 ([LINK](#)) ([CITATIONS](#))

17. **Weymouth N, Dean JFD, Eriksson K-EL*, Morrison III WH, Himmelsbach DS, Hartley RD** (1993) Synthesis and spectroscopic characterization of *p*-hydroxyphenyl, guaiacyl and syringyl lignin polymer models (DHPs). *Nord. Pulp Paper Res. J.* **8**:344-349 ([LINK](#)) ([CITATIONS](#))
18. **Dean JFD, Eriksson K-EL*** (1994) Laccase and the deposition of lignin in vascular plants. *Holzforschung* **48**:21-33 ([LINK](#)) ([CITATIONS](#))
19. **Liu L, Dean JFD, Friedman WE, Eriksson K-EL*** (1994) A laccase-like phenoloxidase is correlated with lignin biosynthesis in *Zinnia elegans* stem tissues. *Plant J.* **6**: 213-224 ([LINK](#)) ([CITATIONS](#))
20. **Dean JFD*, Sterjiades R, Eriksson K-EL** (1994) Purification and characterization of an anionic peroxidase from suspension cultures of sycamore maple (*Acer pseudoplatanus*) cells. *Physiol. Plant.* **92**:233-240 ([LINK](#)) ([CITATIONS](#))
21. **Dean JFD*, Coull JM, Anderson JD** (1995) Generation of internal amino acid sequences from a protease-resistant, hydrophobic protein without peptide purification. Amino acid sequencing of the ethylene biosynthesis-inducing xylanase from *Trichoderma viride*. *Prot. Pep. Lett.* **1**:149-156 ([CITATIONS](#))
22. **Liu L, Eriksson K-EL, Dean JFD*** (1995) Localization of hydrogen peroxide production in *Pisum sativum* L. using epi-polarization microscopy to follow cerium perhydroxide deposition. *Plant Physiol.* **107**:501-506 ([LINK](#)) ([CITATIONS](#))
23. **LaFayette P, Eriksson K-EL, Dean JFD*** (1995) Nucleotide sequence of a cDNA clone encoding an acidic laccase from sycamore maple (*Acer pseudoplatanus* L.). *Plant Physiol.* **107**: 667-668 ([LINK](#)) ([CITATIONS](#))
24. Eriksson K-EL*, LaFayette PR, Merkle SA, Dean JFD (1995) Laccase as a target for decreasing lignin content in transgenic trees through antisense genetic engineering. *In: Proc. 6th International Conference on Biotechnology in the Pulp and Paper Industry*, E. Srebotnik and K. Messner (eds.), Facultas-Universitätsverlag, Vienna, pp. 310-314 ([CITATIONS](#))
25. **Kapik RH, Dinus RJ*, Dean JFD** (1995) Abscisic acid during zygotic embryogenesis in *Pinus taeda* L. *Tree Physiol.* **15**: 485-490 ([LINK](#)) ([CITATIONS](#))
26. **Eggert C, Temp U, Dean JFD, Eriksson K-EL*** (1995) Laccase-mediated formation of the phenoxazinone derivative, cinnabarinic acid. *FEBS Lett.* **376**: 202-206 ([LINK](#)) ([CITATIONS](#))
27. **Eggert C, Temp U, Dean JFD, Eriksson K-EL*** (1996) A fungal metabolite mediates degradation of non-phenolic lignin structures and synthetic lignin by laccase. *FEBS Lett.* **391**:144-148 ([LINK](#)) ([CITATIONS](#))
28. **Chen C-C, Adolphson R, Dean JFD, Eriksson K-EL*, Adams MWW, Westpheling J** (1997) Release of lignin from kraft pulp by a hyperthermophilic xylanase from *Thermatoga maritima*. *Enz. Microb. Tech.* **20**: 39-45 ([LINK](#)) ([CITATIONS](#))
29. Dean JFD* (1997) Lignin Analysis. *In: Plant Biochemistry/Molecular Biology Laboratory Manual* (W.V. Dashek, Ed.). CRC Press, Inc., Boca Raton, FL, pp. 199-215 ([LINK](#)) ([CITATIONS](#))
30. Dean JFD*, LaFayette PR, Eriksson K-EL, Merkle SA (1997) Forest Tree Biotechnology. *Adv. Biochem. Eng. Biotechnol.* **57**: 1-44 ([LINK](#)) ([CITATIONS](#))
31. Kim MK, Sommer HE, Dean JFD, Merkle SA* (1997) Plant regeneration from sweetgum (*Liquidambar styraciflua*) nodule cultures and genetic transformation by microprojectile bombardment. *Proc. 24th Biennial Southern Forest Tree Improvement Conference*, June 9-12, 1997, Orlando, FL, pp.192-197 ([LINK](#)) ([CITATIONS](#))
32. **Eggert C, LaFayette PR, Temp U, Eriksson K-EL, Dean JFD*** (1998) Molecular analysis of a laccase gene from the white-rot fungus, *Pycnoporus cinnabarinus*. *Appl. Environ. Microbiol.* **64**: 1766-1772 ([LINK](#)) ([CITATIONS](#))
33. **Dean JFD*, LaFayette PR, Rugh C, Tristram AH, Hoopes JT, Merkle SA, Eriksson K-EL** (1998) Laccases associated with lignifying tissues. *In: Lignin and Lignan Biosynthesis*, N.G. Lewis and S. Sarkanen (eds.), ACS Symp. Ser. **697**: 96-108 ([LINK](#)) ([CITATIONS](#))
34. **Kim MK, Sommer HE, Dean JFD, Merkle SA*** (1999) Transformation of sweetgum via microparticle

- bombardment of nodule cultures. *In Vitro Cell Dev. Biol.* **35**: 37-42 ([LINK](#)) ([CITATIONS](#))
35. **LaFayette P, Merkle SA, Eriksson K-EL, Dean JFD*** (1999) Characterization and heterologous expression of laccase cDNAs from the lignifying xylem of yellow-poplar (*Liriodendron tulipifera*). *Plant Mol. Biol.* **40**: 23-35 ([LINK](#)) ([CITATIONS](#))
 36. **Liu L, Eriksson K-EL, Dean JFD*** (1999) Localization of hydrogen peroxide production in *Zinnia elegans* L. stems. *Phytochemistry* **52**: 545-558 ([LINK](#)) ([CITATIONS](#))
 37. Barnes JR, Wang Y, Lorenz WW, Merkle SA, Covert SF, Dean JFD* (1999) Analysis of the role of *Leafy* and *Apetala-1* genes in southern hardwoods. Proc. 25th Biennial Southern Forest Tree Improvement Conference, July 12-16, 1999, New Orleans, LA, pp. 201-209 ([LINK](#)) ([CITATIONS](#))
 38. **Merkle SA*, Dean JFD** (2000) Forest tree biotechnology. *Curr. Op. Biotech.* **11**: 298-302 ([LINK](#)) ([CITATIONS](#))
 39. Dean JFD* (2001) Synthesis of lignin in transgenic and mutant plants. *In: Biopolymers, Vol. 1, Lignin, Humic Substances and Coal*" (M. Hofrichter and A. Steinbüchel, Eds.) Wiley-VCH Verlag, Weinheim, DE, pp. 65-88 ([LINK](#)) ([CITATIONS](#))
 40. **Hoopes JT, Dean JFD*** (2001) Staining electrophoretic gels for laccase and peroxidase activity using 1,8-diaminonaphthalene. *Anal. Biochem.* **293**: 96-101 ([LINK](#)) ([CITATIONS](#))
 41. **Kim CH, Lorenz WW, Hoopes JT, Dean JFD*** (2001) Oxidation of phenolate siderophores by the multicopper oxidase encoded by the *Escherichia coli yacK* gene. *J. Bacteriol.* **183**: 4866-4875 ([LINK](#)) ([CITATIONS](#))
 42. Lorenz WW, Dean JFD* (2001) Transcriptome profiling to identify genetic determinants of the juvenile to mature wood transition. Proc. 26th Biennial Southern Forest Tree Improvement Conference, June 26-29, 2001, Athens, GA, pp. 175-181 ([LINK](#)) ([CITATIONS](#))
 43. **Lorenz WW, Dean JFD*** (2002) SAGE profiling and demonstration of differential gene expression along the axial developmental gradient of lignifying xylem in loblolly pine (*Pinus taeda*). *Tree Physiol.* **22**: 301-310 ([LINK](#)) ([CITATIONS](#))
 44. **Ekman DR, Lorenz WW, Przybyla AE, Wolfe NL, Dean JFD*** (2003) SAGE analysis transcriptome responses in *Arabidopsis* roots exposed to 2,4,6-trinitrotoluene. *Plant Physiol.* **133**: 1397-1406 (This paper was the recipient of a Science and Technology Achievement Award from the US EPA) ([LINK](#)) ([CITATIONS](#))
 45. **Hoopes JT, Dean JFD*** (2004) Ferroxidase activity in a plant multicopper oxidase. *Plant Physiol. Biochem.* **42**: 27-33 ([LINK](#)) ([CITATIONS](#))
 46. Dean JFD*, Lorenz WW (2004) Transcriptional profiling in plants using serial analysis of gene expression (SAGE). *AgBiotechNet* 6: 1-7 ([LINK](#)) ([CITATIONS](#))
 47. Lorenz WW, Dean JFD* (2005) Studies of plant gene expression using SAGE. *In: SAGE Technologies: Current Innovations and Future Trends*, (S.M. Wang, Ed.) Horizon Scientific Press, Norwich, England, pp. 189-206 ([LINK](#)) ([CITATIONS](#))
 48. **McCaig BM, Meagher RB, Dean JFD*** (2005). Gene structure and molecular analysis of the laccase-type multicopper oxidase gene family in *Arabidopsis thaliana*. *Planta* 221:619-636 ([LINK](#)) ([CITATIONS](#))
 49. **Ekman DR, Wolfe NL, Dean JFD*** (2005) Gene expression changes in *Arabidopsis thaliana* seedling roots exposed to the munition hexhydro-1,3,5-trinitro-1,3,5-triazine. *Environ. Sci. Technol.* 39: 6313-6320 ([LINK](#)) ([CITATIONS](#))
 50. **Lorenz WW, Sun F, Liang C, Zhao X, Kolychev D, Wang H, Cordonnier-Pratt M-M, Pratt LH, Dean JFD*** (2006) Water stress-responsive genes in loblolly pine (*Pinus taeda* L.) roots identified by analyses of expressed sequence tag libraries. *Tree Physiol.* 26:1-16 ([LINK](#)) ([CITATIONS](#))
 51. Dean JFD* (2006) Genomics resources for conifers. *In: Landscapes, Genomics and Transgenic Conifer Forests*, (C.G. Williams, Ed.) Kluwer-Springer Press, Dordrecht, Netherlands, pp. 55-74 ([LINK](#)) ([CITATIONS](#))
 52. **Liang C*, Wang G, Liu L, Carter K, Webb JS, Dean JFD** (2007) ConiferEST: a novel, generic bioinformatics system for data processing and mining of conifer expressed sequence tags (ESTs). *BMC*

- Genomics 8:134 ([LINK](#)) ([CITATIONS](#))
53. **Liang C*, Wang G, Liu L, Webb JS, Reese G, Dean JFD** (2007) WebTraceMiner: a web service for processing and mining EST traces. Nucl. Acid Res. doi:10.1093/nar/gkm299 ([LINK](#)) ([CITATIONS](#))
 54. **Barnes JR, Lorenz WW, Dean JFD*** (2008) Characterization of a 1-aminocyclopropane-1-carboxylate synthase gene from loblolly pine (*Pinus taeda* L.). Gene 413:18-31 ([LINK](#)) ([CITATIONS](#))
 55. **Nairn CJ*, Lennon DM, Wood-Jones A, Nairn AV, Dean JFD** (2008) Carbohydrate-related genes and cell wall biosynthesis in vascular tissues of loblolly pine (*Pinus taeda* L.). Tree Physiol. 28:1099–1110 ([LINK](#)) ([CITATIONS](#))
 56. **Lorenz WW, Yu Y-S, Simoes M, Dean JFD*** (2009) Processing the loblolly pine PtGen2 cDNA microarray. JoVE doi: 10.3791/1182 ([LINK](#)) ([CITATIONS](#))
 57. Lorenz WW, Johnson VE, Ayyampalaym S, Liang C, Dean JFD* (2010) Progress on enhanced EST resources for loblolly pine (*Pinus taeda* L.) and other conifers. Proc. 30th Biennial Southern Forest Tree Improvement Conference, May 31 - June 3, 2009, Blacksburg, VA, pp. 20-24 ([LINK](#)) ([CITATIONS](#))
 58. **Lorenz WW*, Yu Y-S, Dean JFD** (2010) An improved method of RNA isolation from loblolly pine (*Pinus taeda* L.) and other conifer species. JoVE doi: 10.3791/1751 ([LINK](#)) ([CITATIONS](#))
 59. **Yuan S, Wang Y, Dean JFD*** (2010) ACC oxidase genes expressed in the wood-forming tissues of loblolly pine (*Pinus taeda* L.) include a pair of nearly identical paralogs (NIPs). Gene 453:24-36 ([LINK](#)) ([CITATIONS](#))
 60. **Yuan S, Dean JFD*** (2010) Loblolly pine (*Pinus taeda* L.) ACC oxidase gene promoters display differential responses to bending stress and other external stimuli in transgenic *Arabidopsis thaliana* L. Planta 232: 873-886 ([LINK](#)) ([CITATIONS](#))
 61. **Lorenz WW, Alba R, Yu Y-S, Bordeaux JM, Simões M, Dean JFD*** (2011) Microarray analysis and scale-free gene networks identify candidate regulators in drought-stressed roots of loblolly pine (*P. taeda* L.). BMC Genomics 12:264 ([LINK](#)) ([CITATIONS](#))
 62. MacKay J, Dean JFD (2011) Transcriptomics. In: Genetics, Genomics and Breeding of Conifers (Plomion C, Bousquet J, Kole C, eds.) CRC Press, Boca Raton, FL, pp. 322-357 ([LINK](#)) ([CITATIONS](#))
 63. Dean JFD (2011) Future prospects. In: Genetics, Genomics and Breeding of Conifers (Plomion C, Bousquet J, Kole C, eds) CRC Press, Boca Raton, pp. 404-438 ([LINK](#)) ([CITATIONS](#))
 64. Bordeaux JM, Dean JFD* (2012) Susceptibility and response of pines to *Sirex noctilio*. In: The Sirex Woodwasp and its Fungal Symbiont: Research and Management of a Worldwide Invasive Pest, Slippers B, de Groot P, Wingfield MJ (eds.), Springer, Dordrecht, pp 31-50 ([LINK](#)) ([CITATIONS](#))
 65. **Bagal UR, Leebens-Mack JH, Lorenz WW, Dean JFD*** (2012) Phylogenomic analysis of the phenylalanine ammonia lyase gene family in loblolly pine (*Pinus taeda* L.). BIBM Proceedings, 2011 IEEE International Conference on Bioinformatics and Biomedicine, pp.69-74 ([LINK](#)) ([CITATIONS](#))
 66. **Bagal UR, Leebens-Mack JH, Lorenz WW, Dean JFD*** (2012) The phenylalanine ammonia lyase (PAL) gene family shows a gymnosperm-specific lineage. BMC Genomics 13:S1 ([LINK](#)) ([CITATIONS](#))
 67. **Lorenz WW, Neale DB, Jermstad KD, Howe GT, Rogers DL, Bordeaux JM, Ayyampalayam S, Dean JFD*** (2012) Conifer DBMagic: A database housing multiple de novo transcriptome assemblies for twelve diverse conifer species. Tree Genet Genom 8:177-1485 ([LINK](#)) ([CITATIONS](#))
 68. **MacKay J, Dean JFD, Plomion C, Peterson D, Canovas F, Pavy N, Ingvarsson P, Savolainen O, Fluch S, Vicenti B, Abarca D, Díaz-Sala C, Cervera MT*** (2012) Towards decoding the conifer giga-genome. Plant Molecular Biology 80:555-569 ([LINK](#)) ([CITATIONS](#))
 69. **Bordeaux JM, Lorenz WW, Dean JFD*** (2012) Biomarker genes display intraspecific and interspecific variations in the responses of *Pinus taeda* L. and *Pinus radiata* D. Don to *Sirex noctilio* F. acid gland secretions. Tree Physiology 32:1302-1312 ([LINK](#)) ([CITATIONS](#))
 70. **Howe GT, Yu J, Knaus B, Cronn R, Kolpak S, Dolan P, Lorenz WW, Dean JFD** (2013) A SNP resource for Douglas-fir: *de novo* transcriptome assembly and SNP detection and validation. BMC Genomics 14:137 ([LINK](#)) ([CITATIONS](#))
 71. **Simões M, Lorenz WW, Maroco J, Alba R, Dean JFD, Miguel C** (2013) Transcriptomic analysis

highlights epigenetic and transcriptional regulation during zygotic embryo development of *Pinus pinaster*. BMC Plant Biology 13:123 ([LINK](#)) ([CITATIONS](#))

72. Bordeaux JM, Coyle DR, Dean JFD, Gandhi KJK (2013) High variability in biomarker gene responses to *Sirex noctilio* venom in field-grown pines. Proc. 32nd Biennial Southern Forest Tree Improvement Conference, June 10-13, Clemson, SC, pp. 86-93 ([LINK](#)) ([CITATIONS](#))
73. Neale DB*, Wegrzyn JL, Stevens KA, Zimin A, Puiu D, Crepeau M, Cardeno C, Koriabine M, Holtz-Morris AE, Liechty JD, Martínez-García PJ, Vasquez-Gross HA, Lin BY, Zieve JJ, Dougherty WM, Fuentes-Soriano S, Wu L, Gilbert D, Marçais G, Roberts M, Holt C, Yandell M, Davis JM, Smith K, Dean JFD, Lorenz WW, Whetten RW, Sederoff R, Wheeler N, McGuire PE, Main D, Loopstra CA, Mockaitis K, deJong P, Yorke JA, Salzberg SL, Langley CH (2014) Decoding the massive genome of loblolly pine using haploid DNA and novel assembly strategies. Genome Biology 15: R59 ([LINK](#)) ([CITATIONS](#))
74. Bordeaux JM, Lorenz WW, Johnson D, Badgett MJ, Glushka J, Orlando R, Dean JFD* (2014) Noctilisin, a venom glycopeptide, is the heat-stable factor that causes needle wilt and defense gene responses in pines attacked by the *Sirex noctilio* woodwasp. J Econ Entomol 107:1931-1945 ([LINK](#)) ([CITATIONS](#))
75. Kovalchuk A, Raffaello T, Jaber E, Keriö S, Ghimire R, Lorenz WW, Dean JFD, Holopainen JK, Asiegbu FO* (2014) Activation of defence pathways in Scots pine bark after feeding by pine weevil (*Hyllobius abietis*) BMC Genomics 16:352 ([LINK](#)) ([CITATIONS](#))
76. Wang T, Zhao M, Bordeaux JM, Rotgans B, Ni G, Dean JFD, Nahrung H, Cummins S* (2016) Proteomic analysis of the venom and sac tissue of the woodwasp, *Sirex noctilio*, towards the understanding of biological impact on trees. J Proteom 146:195-206 ([LINK](#)) ([CITATIONS](#))
77. Perera D, Magbanua ZV, Thummasuwan S, Mukherjee D, Arick M, Chouvarine P, Nairn CJ, Schmutz J, Grimwood J, Dean JFD, Peterson D* (2018) Characterizing the loblolly pine (*Pinus taeda* L.) genome by BAC sequencing and Cot analysis. Gene 663:165-177 ([LINK](#)) ([CITATIONS](#))
78. Bookwalter JD, Riggins JJ, Dean JFD, Mastro VC, Schimleck LR, Sullivan BT, Gandhi KJK* (2018) Colonization and development of *Sirex noctilio* (Hymenoptera: Siricidae) in bolts of a native pine host and six species of pine grown in the southeastern United States. J Entomol Sci (*accepted*)
79. Keriö S, Jaber E, Kovalchuk A, Semiz G, Hartikainen S, Raffaello T, Lorenz WW, Dean JFD, Holopainen JK, Asiegbu FO* (2018) Changes in transcript and terpene profiles of *Pinus sylvestris* trees inoculated with *Heterobasidion annosum* s.s. under field conditions. (*in revision*)

Other Publications

1. Strauss S, Boerjan W, Cairney J, Campbell M, Dean J., Ellis D, Jouanin L, Sundberg B (1999) Forest biotechnology makes its position known. Nature Biotech. 17: 1145-1146([CITATIONS](#))
2. Kershen DL, Dean JFD (2003) Perspective – Legal and regulatory issues related to agricultural biotechnology. ASPB Newsletter 30: 1
3. Dean JFD (2004) Tagging all genes (News & Commentary). Nature Biotech 22: 961-962 ([CITATIONS](#))
4. Rosner, H (2004) Turning Genetically Engineered Trees Into Toxic Avengers. New York Times, Science Page, August 3 (Quoted in the article from telephone interview.)
5. Dean JFD (2004) Putting the biology in biotechnology. The Forester's Log, Fall 2004, pp. 17
6. Dean JFD (2008) Pine genomics and trees for the 21st century. Georgia Forestry Today 4:12-15
7. Dean JFD (2008) Characterization of Laccase-like Multicopper Oxidases (LMCOs) in *Arabidopsis thaliana*. Technical Report, DOE/ER/20036-Final Report, DOI 10.2172/929305

Meetings Organized

1. Session organizer, “Woody Plant Biotechnology,” 5th International Congress of Plant Molecular Biology, 21-27 September 1997, Singapore

2. Moderator, IEG-40 Workshop on Wood and Wood Fibers: Properties and Genetic Improvement, July 19-22, 1998, Atlanta, GA, General Session IV (*Molecular Biology and Genetic Engineering for the Improvement of Wood Fibers*)
3. Local Organizing Committee, 26th Biennial Southern Forest Tree Improvement Conference, 26-29 June 2001, Athens, GA
4. Chair, Gene Discovery Subcommittee, Loblolly Pine Genome Project (LPGP) Workshop, May 21-22, 2003, Davis, CA
5. Principal Organizer, "Knowledge discovery in genomic databases: A PASI on Data Mining Applications for Genomics and Bioinformatics." Pan-American Advanced Studies Institute (PASI) workshop on bioinformatics, 9-20 February 2004, Montevideo, Uruguay
6. Chair, Gene Discovery Subcommittee, Loblolly Pine Genome Project (LPGP) Workshop, June 25-26, 2004, Jekyll Island, GA
7. Co-Chair, Loblolly Pine Genome Project (LPGP) Workshop, June 23, 2005, Raleigh, NC
8. Organizer, Loblolly Pine Genome Project (LPGP) Workshop, June 29, 2006, Jacksonville, FL
9. Co-Organizer, International Workshop on Conifer Genomes, March 18-21, 2007, Banbury Center, Cold Spring Harbor Laboratories, Cold Spring Harbor, NY
10. Session Chair, "Responses to Biotic and Abiotic Stress," Biennial Meeting of the IUFRO Unit on Molecular Biology of Forest Trees, June 3-8, 2007, Ponta Delgada, Azores
11. Organizer, Loblolly Pine Genome Project (LPGP) Workshop, June 21, 2009, Blacksburg, VA
12. Organizer, Conifer Bioinformatics Panel, Forest Tree Workshop, XVIIIth Plant and Animal Genomes Conference, January 9-13, 2010, San Diego, CA
13. Scientific Organizing Committee, Biennial Meeting of the IUFRO Unit on Molecular Biology of Forest Trees, June 26- July 2, 2011, Porto Seguro, Brazil
14. Scientific Organizing Committee, 7th International Conference on Genomes (ICG-VII), November, 2012, Hong Kong, China
15. Session Chair, SECU Academic Conference, "Impact of the Southeast in the World's Renewable Energy Future," February 10-12, 2013, Atlanta, GA
16. Co-Chair, Local Organizing Committee, Biennial Meeting of the IUFRO Unit on Molecular Biology of Forest Trees, May 2013, Asheville, NC

Invited Lectures

1. PUB Research Conference, Purdue University, March 14-16, 1986, "Characterization and Physiological Significance of Two DAHP Synthase Activities from Carrot Root"
2. Department of Horticulture, University of Maryland, May 2, 1990, "Characterization of the Ethylene Biosynthesis-Inducing Endoxylanase from *Trichoderma viride*"
3. Department of Biochemistry, University of Georgia, April 16, 1990, "Characterization of a Fungal Endoxylanase: An Elicitor of Ethylene Biosynthesis"
4. Department of Biochemistry, University of Georgia, October 5, 1992, "Extracellular Phenoloxidasases and Lignin Biosynthesis in Higher Plants"
5. Biology Department, Clark Atlanta University, Oct. 1, 1992, "The Role of Extracellular Phenoloxidasases in Lignin Biosynthesis"
6. U.S. Department of Energy Lignin Workshop, Research Needs in Lignin Biosynthesis and Biodegradation, Asilomar, CA, May 24-27, 1994, "Laccase Involvement in Lignin Deposition"
7. American Society of Plant Physiology Annual Meeting, Charlotte, NC, July 29-August 2, 1995, Mini-symposium on Applications of Biotechnology in Woody Plants, "Tailoring Lignin in Forest Trees." *Plant Physiol.* 108S:21001
8. International Meeting on Copper in Biological Systems, Santa Severa (Rome), Italy, September 10-15, 1995, "Structure-Function Relationships in Laccase, a Blue-Copper Oxidase"
9. Centre de Reserches sur les Macromolécules Végétales (CERMAV/CNRS), University of Grenoble, France, September 19, 1995, "The Physiology, Biochemistry and Molecular Biology of Laccase, a Blue

Copper Oxidase"

10. Centre de Biologie et Physiologie Végétales (CNRS), Paul Sabatier University, Toulouse, France, September 21, 1995, "Physiology, Biochemistry and Molecular Biology of Plant Laccases"
11. Institute of Paper Science and Technology, November 11, 1995, "Genetic Manipulation of Lignin at the Level of Deposition"
12. Keystone Symposium, The Extracellular Matrix of Plants: Molecular, Cellular and Developmental Biology, Tamarron, CO, March 8-14, 1996, "The Role of Laccase in Lignin Biosynthesis"
13. American Chemical Society, Tutorial on Lignin Biosynthesis, New Orleans, LA, March 24, 1996, "Oxidative Enzymes Involved in Lignin Deposition"
14. World Congress on In Vitro Biology, San Francisco, CA, June 22-27, 1996, "Lignin Modification in Forest Trees"
15. 61st Annual Executive's Conference, Institute of Paper Science and Technology, Atlanta, GA, May 7, 1997, "Cross-Pollinating Ideas at UGA and IPST: Engineering Sterile Trees"
16. 5th International Congress of Plant Molecular Biology, September 21-27 1997, Singapore, "Forest biology in the age of biotechnology" (Abstract 319)
17. Department of Biochemistry and Molecular Biology, University of Georgia, September 18, 1998, "Plant Laccases - Why Such a Large and Diverse Family?"
18. Weed Science Laboratory, USDA/ARS, Beltsville, MD, January 6 1999, "Lignin Biosynthesis: Role for the Large Laccase Family"
19. Warnell School of Forest Resources, February 1, 2001, University of Georgia, "Searching for the Genetic Basis of the Juvenile to Mature Wood Transition in Loblolly Pine - A Case Study for the Use of Genomic Technologies in Forest Resources"
20. Biennial Meeting of the IUFRO Unit on Molecular Biology of Forest Trees, "Tree Biotechnology in the Next Millennium", July 22-29, 2001, Stevenson, WA, "SAGE profiling and demonstration of transcriptome changes along the axial developmental gradient of lignifying xylem of loblolly pine"
21. Center for Biological Resource Recovery, University of Georgia, November 6, 2001, "A Copper-Dependent Iron Uptake System In *Escherichia coli* And Other Bacteria"
22. Innovase Mini-Symposium on Bio-Bleaching, December 6-7 2001, San Diego, CA, "Evolutionary Windows On Laccase Distribution, Structure And Function"
23. Warnell School of Forest Resources, March 28, 2002, University of Georgia, "Iron Metabolism in Plants: A New Metabolic Paradigm for Laccase"
24. The Plant Center (UGA) Annual Retreat, May 13-14, 2002, "Using SAGE to study plant transcriptome responses"
25. XI International Symposium on Iron Nutrition and Interactions in Plants, June 23-28 2002, Udine, Italy, "Iron uptake in plants: A new metabolic paradigm for laccase-type multicopper oxidases"
26. Genomics & Biotechnology of Woody Plants Symposium, October 16-17, 2003, Knoxville, TN, "Using Functional Genomics to Open New Windows on Wood Formation"
27. National Association of Professional Forestry Schools and Colleges/National Planning Committee (NAPFSC/NPC) Fall Conference, October 28-29, 2003, USFS Forest Products Laboratory, Madison, WI, "Recent Progress in Genetic Control of Wood Properties"
28. UGA Computational Systems Biology Group, December 4, 2003, "Serial Analysis of Gene Expression (SAGE) Studies of Loblolly Pine and Arabidopsis"
29. XIIth Plant and Animal Genomes Conference, January 10-14, 2004, San Diego, CA, Forest Tree Genomics Workshop, Chairperson, Session C. "EST Sequence Analysis and Mining" and Session D. "Genomic Structure and Evolution"
30. XIIth Plant and Animal Genomes Conference, January 10-14, 2004, San Diego, CA, Forest Tree Genomics Workshop, "Loblolly pine root ESTs and their use for understanding gene responses to environmental stress"
31. Department of Biochemistry and Molecular Biology, University of Georgia, April 23, 2004, "Functional Genomic Tools for Probing Loblolly Pine Responses to the Environment"

32. Department of Plant Biology, University of Georgia, April 26, 2004, "Using Functional Genomics to Understand Tree Biology in Real-Time"
33. University of Maine, Forestry Program Centennial Lecture, April 29, 2004, "Will Genomics and Biotechnology Impact Forestry Practices in Your Lifetime?"
34. Michigan State University, Department of Forestry, October 19, 2004, "Novel drought adaptive genes in pine identified through analyses of EST libraries"
35. UGA Plant Center Retreat, October 29, 2004, "Novel drought response genes in loblolly pine identified through analyses of EST libraries"
36. XIIIth Plant and Animal Genomes Conference, January 15-19, 2005, San Diego, CA, Forest Tree Genomics Workshop, "Identification of drought response genes in loblolly pine (*Pinus taeda* L.) by analysis of expressed sequence tag libraries"
37. Michigan Technological University, School of Forest Resources and Environmental Sciences, March 21, 2005, "DNA Microarrays and EST databases for identifying stress response genes in pine"
38. Savannah River Ecology Laboratory, October 13, 2005, "Functional Genomics in Loblolly Pine: Development of Resources for Data Mining Gene Expression"
39. University of South Carolina, Norman J. Arnold School of Public Health, October 14, 2005, "Using Model Plant Functional Genomics to Inform Phytoremediation Approaches: Arabidopsis Gene Responses to Munitions as a Case Study"
40. Miami University (Ohio), Botany Department, April 21, 2006, "Transcriptional Profiling of Environmental Stress Responses in Pine"
41. XVth Plant and Animal Genomes Conference, January 13-17, 2007, San Diego, CA, Reduced-Representation Sequencing Workshop, "Sequencing the transcriptionally active gene space in conifers"
42. International Workshop on Conifer Genomics, March 18-21, 2007, Banbury Center, Cold Spring Harbor, NY, "Key Components of a Conifer Genome Program: Gene Discovery"
43. GROWS 2007 Forest Landowner Conference, August 2-4, 2007, Callaway Gardens, GA, "Breakout Session IV - Tree Genetics"
44. The Latin America and the Caribbean Meetings on Agricultural Biotechnology (REDBIO), October 22-26, 2007, Valparaiso, Chile, "The conifer genome sequence: A snapshot and a prospectus"
45. The Institute of Forest Biotechnology, December 6, 2007, The National Press Club, Washington, DC, "Pine Genome Research: A Status Report"
46. Plantation Management Research Cooperative (PMRC) Annual Partners Meeting, University of Georgia, May 15, 2008, Athens, GA, "Warnell Biotechnology Update"
47. Pine 2 Energy Coalition, October 23, 2008, Athens, GA, "The Pine Biomaterials and Energy Research Consortium (PineBERC)"
48. Northeast Georgia Section Monthly Meeting, American Chemical Society, November 18, 2008, Athens, GA, "Biofuels/Bioenergy Forum"
49. Forest Commodities Board, Georgia Farm Bureau Annual Meeting, December 8, 2008, Jekyll Island, GA, "Georgia Pine as a Future Energy Resource"
50. Institute for Sustainable and Renewable Resources, The Institute for Advanced Learning and Research, June 4, 2009, "Conifer Genomics – When Will We Know the Unknowable?"
51. FoResTTraC Workshop on Conifer Genomics, June 14-16, 2010, Universidad de Alcalá, Spain, "Transcriptomics in Pines and Other Conifers"
52. 53rd Southern Forest Insect Work Conference, 20-23 July, 2010, Wilmington, NC, "Molecular Features of the Pine Response to *Sirex Mucus*"
53. XIXth Plant and Animal Genomes Conference, January 15-19, 2011, San Diego, CA, Evolution of Genome Size Workshop, "On the road to a conifer genome sequence: Defining the gene space in pine"
54. 31th Biennial Southern Forest Tree Improvement Conference, "Genomic Approaches for Increasing Sustainable Biomass Harvest in Southern Forests," June 13-16, 2011, Biloxi, MS
55. 6th International Conference on Genomics (ICG-VI), November 12-15, 2011, Shenzhen, China, "Challenges and Opportunities for a Conifer Reference Genome Sequence"

56. UC Riverside, Center for Integrative Genome Biology, May 1, 2012, “A Wasp, a Fungus, and a Tree: Using Genomic Approaches to Understand a Complex Pathosystem”
57. ProCoGen Workshop, Umea University, Sweden, January 30, 2013, “An Undiscovered Country: What Comparative Transcriptomics Tells Us of Gymnosperm Genomes”
58. The 2013 Conifer Genome Sequencing Summit, Björkliden, Sweden, June 13-17, 2013, “The Future for Conifer Genome Research”
59. Swedish University of Agricultural Sciences (SLU), Department of Plant Sciences and Forest Genetics, January 16, 2014, “Noctilisin: A woodwasp venom glycopeptide involved in suppression of pine defense responses”
60. ProCoGen Workshop, Universidad de Alcalá, Spain, February 20, 2014, “Functional Genomics in *Pinus taeda*”
61. The 2nd Conifer Genome Sequencing Summit, Forêt Montmorency, Canada, June 16-18, 2014, “Pine Transcriptome Responses to Venom of the Invasive Woodwasp, *Sirex noctilio*”
62. ProCoGen Final Conference, Orleans, France, November 30 – December 2, 2015, “Genetic Control of Adaptive Traits in *P. taeda*”
63. International Congress of Entomology, Orlando, FL, September 25-30, 2016, “*Sirex noctilio* venom and host plant interactions”
64. 60th Southern Forest Insect Work Conference, July 25-28, 2017, Melbourne, FL, “Genomics-Informed Approaches for Meeting the Grand Challenges in Forest Health”
65. Association of Medical and Graduate Departments of Biochemistry (AMGDB) Annual Conference, January 16-21, 2019, Poipu, HI, “A novel glycopeptide in woodwasp venom potentiates the lethal infection of pines by the fungus, *Amylostereum areolatum*”

Presentations at professional meetings (presenting author underlined)

1. Dean JFD, Anderson JD, Fuchs Y, Gamble HR (1988) Induction of the ethylene-inducing xylanase in *Trichoderma viride*. Plant Physiol. 86S:640
2. Dean JFD, Gross KC, Anderson JD (1989) Purification and characterization of the ethylene biosynthesis-inducing xylanase from *Trichoderma viride*. Plant Physiol. 89S:670
3. Dean JFD, Anderson JD (1990) Characteristics of ethylene biosynthesis-inducing endoxylanases purified from Cellulysin and *Trichoderma viride* cultures. Spring meeting of the Washington Section, American Society of Plant Physiologists
4. Dean JFD, Herrmann KM, Anderson JD (1990) Biosynthesis of a 3-deoxy-D-manno-octulosonate in higher plants: Characterization of the initial pathway enzyme. Plant Physiol. 93S:98
5. Bailey BA, Dean JFD, Taylor R, Anderson JD (1990) Ethylene biosynthesis- inducing endoxylanase causes necrosis and electrolyte leakage in *Nicotiana tabacum* nov. *Xanthi*. Plant Physiol. 93S:154
6. Dean JFD, Eriksson K.-EL (1991) Development of monoclonal antibodies to probe lignin composition and structure in plant cell walls. FASEB J. 5:2718
7. Dean JFD, Eriksson K.-EL (1991) Monoclonal antibodies to probe lignin composition and structure. Proc. Intl. Symp. on Applications of Biotechnology to Tree Culture, Protection and Utilization, Aug. 5-8, 1991, Columbus, OH. US Forest Service General Technical Report NE-152, p. 100
8. Sterjiades R, Dean JFD, Eriksson K.-EL (1991) Laccase and peroxidases, extracellular enzymes involved in lignin biosynthesis in tree cell suspension cultures. Proc. Intl. Symp. on Applications of Biotechnology to Tree Culture, Protection and Utilization, Aug. 5-8, 1991, Columbus, OH. US Forest Service General Technical Report NE-152, p. 132
9. Dean JFD, Sterjiades R, Eriksson K.-EL (1992) Extracellular phenoloxidases in lignin biosynthesis in higher plants. 6th Intl. Symp. of the Conifer Biotechnology Working Group, April 23-27, Raleigh, NC
10. Sterjiades R, Dean JFD, Eriksson K.-EL (1992) Enzyme targets for reducing lignin content in forest trees. 14th Symp. on Biotechnology for Fuels and Chemicals, May 11-15, Gatlinburg, TN
11. Dean JFD, Sterjiades R, Eriksson K.-EL (1992) Enzymatic constraints on the contributions of laccase and peroxidase to lignin structure. Plant Physiol. 99S:144

12. Kapik RH, Dinus RJ, Dean JFD (1993) A study of plant growth hormones during zygotic embryogenesis in loblolly pine. 22nd Southern Forest Tree Improvement Conference, June 14-17, 1993, Atlanta, GA
13. Plummer D, Dean JFD, Eriksson K-EL (1993) Lignin-associated enzymes in elicitor-treated cell cultures of sycamore maple (*Acer pseudoplatanus*). Ann. Mtg. of the Mycological Society of America, June 20-23, 1993, Athens, GA
14. Liu L, Dean JFD, Eriksson K-EL (1993) A laccase-like activity is correlated with lignin biosynthesis in *Zinnia elegans*. Plant Physiol. 102S:513
15. Kapik RH, Dinus RJ, Dean JFD (1993) Abscisic acid during zygotic embryogenesis *Pinus taeda* L. IUFRO S2.01-05 Working Group Symposium, "Biology and Control of Reproductive Processes in Forest Trees, August 22-26, 1993, Victoria, British Columbia, Canada.
16. Liu L, Dean JFD, Eriksson K-EL (1994) Localization of hydrogen peroxide production in *Zinnia elegans* stem using epi-polarized light microscopy and SEM X-ray mapping. Plant Physiol. 104S:138
17. LaFayette P, Merkle SA, Eriksson K-EL, Dean JFD (1994) Molecular characterization of hardwood laccase genes and their application in lignin reduction via antisense technology. Proc. 2nd International Symposium on Applications of Biotechnology to Tree Culture, Protection and Utilization, Oct. 2-6, 1994, Minneapolis, MN. US Forest Service General Technical Report NC-175
18. LaFayette PR, Rugh CL, Merkle SA, Eriksson K-EL, Dean JFD (1995) Laccase as a target for decreasing lignin content. 23rd Southern Forest Tree Improvement Conference, June 20-22, 1995, Asheville, NC
19. LaFayette PR, Merkle SA, Eriksson K-EL, Dean JFD (1995) Molecular characterization of hardwood laccase genes. Plant Physiol. 108S:180
20. Hoopes JT, Tristram AH, LaFayette PR, Eriksson K-EL, Dean JFD (1995) Isolation of laccases and their encoding genes from *Zinnia elegans*. Plant Physiol. 108S:325
21. Dean JFD, LaFayette PR, Tristram AH, Hoopes JT, Eriksson K-EL (1995) Laccase involvement in lignification. Proc. 7th Cell Wall Meeting, Sept. 26-29, Santiago de Compostela, Spain
22. Dean JFD, Rugh CL, Wang Y, Lorenz WW, Barnes J, Covert SF, Merkle SA (1997) Molecular manipulation of reproduction in yellow-poplar. 24th Southern Forest Tree Improvement Conference, June 9-12, Orlando, FL
23. Kim MK, LaFayette PR, Dean JFD, Merkle SA (1997) Characterization of laccase genes from sweetgum (*Liquidambar styraciflua* L.). 24th Southern Forest Tree Improvement Conference, June 9-12, Orlando, FL
24. Kim MK, Sommer HE, Dean JFD, Merkle SA (1997) Genetic transformation of sweetgum (*Liquidambar styraciflua*) nodule cultures by microprojectile bombardment. In Vitro Biology 33:P-1022
25. Kim MK, LaFayette PR, Dean JFD, Merkle SA (1997) Expression of a modified green fluorescent protein gene does not confer fluorescence in suspension cultured cells of hardwood trees. In Vitro Biology 33: P-1068
26. LaFayette PR, Dean JFD (1997) Characterization of four laccase genes which are differentially expressed in cambium/lignifying tissue of yellow-poplar (*Liriodendron tulipifera*). Plant Physiol. 114S:132
27. LaFayette PR, Hoopes JT, Dean JFD (1997) Members of a laccase gene family are differentially expressed during wood formation in yellow-poplar (*Liriodendron tulipifera* L.). 5th International Congress of Plant Molecular Biology, 21-27 September 1997, Singapore. Abstr. 1320
28. Barnes JR, Wang Y, Lorenz WW, Merkle SA, Covert SF, Dean JFD (1999) Analysis of the role of *Leafy* and *Apetala-1* genes in southern hardwoods. Proc. 25th Biennial Southern Forest Tree Improvement Conference, July 12-16, 1999, New Orleans, LA (Received Baruch Foundation Award as Best Poster)
29. Dean JFD, LaFayette PR, Hoopes JT, McCaig BC (1999) Characterization and expression of laccase genes from yellow-poplar xylem. Biennial Meeting of the IUFRO Unit on Molecular Biology of Forest Trees, Tree Biotechnology '99, July 11-16, Oxford, England
30. Lorenz WW, Hoopes JT, Dean JFD (2000) Multicopper oxidases in *Escherichia coli* and other bacteria. 2nd International Biometals Symposium, April 24-29, Tübingen, Germany
31. Barnes JR, Wang Y, Dean JFD (2001) The first ACC synthase gene from pine: studies of its relationship to wood quality, 26th Biennial Southern Forest Tree Improvement Conference, June 26-29, Athens, GA
32. Wang Y, Yuan S, Barnes JR, Dean JFD (2001) The isolation and characterization of ACC oxidase genes

- from loblolly pine (*Pinus taeda*), 26th Biennial Southern Forest Tree Improvement Conference, June 26-29, Athens, GA
33. Dean JFD, Barnes JR, Wang Y, Yuan S (2001) Cloning and characterization of ethylene biosynthetic genes from loblolly pine. "Tree Biotechnology in the Next Millennium", Biennial Meeting of the IUFRO Unit on Molecular Biology of Forest Trees, July 22-29, Stevenson, WA
 34. Neale DB, White TL, Davis JM, Martin TA, Dean JFD, Covert SF, Pratt LH, Cordonnier-Pratt M-M (2002) Allele discovery for genes controlling economic traits in loblolly pine. Xth Plant and Animal Genomes Conference, January 12-16, San Diego, CA
 35. Ekman DR, Lorenz WW, McCutcheon SC, Wolfe NL, Dean JFD (2002) Use of Serial Analysis of Gene Expression (SAGE) to Study Genetic Responses to the Presence of TNT and RDX by *Arabidopsis thaliana*. 6th International Symposium On Environmental Biotechnology, June 9-12, 2002, Veracruz, México
 36. Wang C-T, McCaig BM, Dean JFD (2002) An iron-responsive laccase-type multicopper oxidase in young roots of *Arabidopsis thaliana*. XI International Symposium on Iron Nutrition and Interactions in Plants, June 23-28, Udine, Italy
 37. Dean JFD, Cordonnier-Pratt M-M, Covert SF, Merkle SM, Pratt LH, Gingle AR, Lorenz WW, Nairn CJ, Will R (2002) Transcriptome responses to environmental conditions in loblolly pine roots. NSF Plant Genome Awardees Meeting, September 26-27, Arlington, VA
 38. Ekman DR, Lorenz WW, Przybyla AE, Wolfe NL, Dean JFD (2002) Transcriptome responses in *Arabidopsis thaliana* roots exposed to TNT. University System of Georgia Regents Symposium, October 3-4, Atlanta, GA
 39. Ekman DR, Lorenz WW, Przybyla AE, Wolfe NL, Dean JFD (2003) Transcriptome responses in *Arabidopsis thaliana* roots exposed to TNT detected using SAGE. XIth Plant and Animal Genomes Conference, January 11-15, San Diego, CA
 40. Dean JFD, Cordonnier-Pratt M-M, Covert SF, Merkle SM, Pratt LH, Gingle AR, Lorenz WW, Nairn CJ, Will R (2003) Transcriptome responses to environmental conditions in loblolly pine roots. XIth Plant and Animal Genomes Conference, January 11-15, San Diego, CA
 41. Dean JFD, Lorenz WW, Pratt LH, Cordonnier-Pratt M-M (2003) The response of loblolly pine root ESTs to water stress, Biennial Meeting of the IUFRO Unit on Molecular Biology of Forest Trees, June 7-12, Umeå, Sweden
 42. Ekman DR, Lorenz WW, Przybyla AE, Wolfe NL, Dean JFD (2003) Transcriptional profiling of *Arabidopsis thaliana* root responses to munitions, 7th International Congress of Plant Molecular Biology, 23-28 June 2003, Barcelona. Abstr. S03-56
 43. Dean JFD, Lorenz WW, Pratt LH, Cordonnier-Pratt M-M (2003) The response of loblolly pine root ESTs to water stress. 7th International Congress of Plant Molecular Biology, 23-28 June 2003, Barcelona. Abstr. S05-109
 44. Ekman DR, Lorenz WW, Przybyla AE, Wolfe NL, McCutcheon SC, Dean JFD (2004) Transcriptional profiling of *Arabidopsis thaliana* root responses to munitions, 4th Annual Meeting of the American Ecological Engineering Society, 9-12 June 2004, Fayetteville, AR. Abstr. 7A
 45. Dean JFD, Lorenz WW, Pratt LH, Cordonnier-Pratt M-M (2005) Identification of drought response genes in loblolly pine (*Pinus taeda* L.) by analysis of expressed sequence tag libraries. XIIIth Plant and Animal Genomes Conference, January 15-19, Forest Tree Genomics Workshop, San Diego, CA
 46. Dean JFD (2005) Genomic resources for the study of loblolly pine and other conifers. 28th Biennial Southern Forest Tree Improvement Conference, June 20-23, Raleigh, NC
 47. Nairn CJ, Lorenz WW, Dean JFD (2005) Molecular genetics of cellulose synthesis in developing wood of loblolly pine. 28th Biennial Southern Forest Tree Improvement Conference, June 20-23, Raleigh, NC
 48. Wang C-T, Dean JFD (2005) Functional analysis of a laccase-like multicopper oxidase (LMCO) in *Arabidopsis thaliana*. 16th International Conference on Arabidopsis Research, June 15-19, Madison, WI
 49. Dean JFD (2005) Using functional genomics to dissect drought responses in pine. Biennial Meeting of the IUFRO Unit on Molecular Biology of Forest Trees, Nov 7-11, Pretoria, S. Africa

50. Yuan S, Barnes JR, Dean JFD (2006) Ethylene biosynthetic gene responses and compression wood formation in loblolly pine. *Plant Physiol.* P03003
51. Nairn CJ, Wood-Jones A, Lorenz WW, Dean JFD (2006). Analysis of candidate genes for wood formation in loblolly pine by quantitative real-time RT PCR. *Plant Physiol.* P03014
52. Bordeaux JM Dean JFD (2007) Screens for *Amylostereum areolatum* resistance in loblolly pine (*Pinus taeda* L.) USDA Interagency Research Forum on Invasive Species, January 9-12, 2007, Annapolis, MD
53. Nairn CJ, Lennon D, Wood-Jones A, Dean JFD (2007) Carbohydrate-related genes and cell wall biosynthesis in vascular tissues of loblolly pine. North American Forest Biology Workshop, May 20-23, Bloomington, IN
54. Dean JFD (2007) Opportunities for Sirex Research In The Genomics Era. International Sirex Symposium, Pretoria, South Africa, 10-11 May 2007
55. Dean JFD (2007) When you can't run or hide. Understanding tree responses to abiotic challenge. Biennial Meeting of the IUFRO Unit on Molecular Biology of Forest Trees, June 3-8, Ponta Delgada, Azores
56. Bordeaux JM, Dean JFD (2008) Phenoxidase Production by *Amylostereum areolatum* and its Possible Role in the *Sirex noctilio/Pinus taeda* (L.) Pathosystem, USDA Interagency Research Forum on Invasive Species, January 8-11, 2008, Annapolis, MD
57. Dean JFD, Howe GT, Jermstad K, Neale DB, Rogers DL (2008) The JGI Community Sequencing Project for Conifer ESTs. XVIth Plant and Animal Genomes Conference, January 12-16, Forest Tree Genomics Workshop, San Diego, CA
58. Neale DB, Lee J, Wegrzyn J, Nelson D, St. Clair B, Huber D, Byram T, Howe G, Harry D, Wheeler N, Dean J, McKeand S, Whetten R (2008) Conifer translational genomics network. XVIth Plant and Animal Genomes Conference, January 12-16, Forest Tree Genomics Workshop, San Diego, CA
59. Echt C, Whetten R, Nelson CD, Peterson DG, Krutovsky K, Yuceer C, Dean J (2008) A proposal for new pine resources for genetic mapping and sequencing. XVIth Plant and Animal Genomes Conference, January 12-16, Forest Tree Genomics Workshop, San Diego, CA
60. Nelson CD, Peterson DG, Echt C, Whetten R, Krutovsky K, Yuceer C, Dean J (2008) Pine genome physical mapping and sequencing. XVIth Plant and Animal Genomes Conference, January 12-16, Forest Tree Genomics Workshop, San Diego, CA
61. Dean JFD, Howe GT, Jermstad K, Neale DB, Rogers DL (2008) The JGI community sequencing project for conifer ESTs. US DOE Joint Genome Institute Users Meeting, March 26-28, Walnut Creek, CA
62. Lorenz WW, Simões M, Miquel C, Dean JFD (2008) Analyses of gene expression changes in Pinus species using a loblolly pine cDNA microarray. Biennial Meeting of the IUFRO Working Group 2.04.01 (Population, ecological and conservation genetics), Aug 24-29, Quebec City, Canada
63. Simões M, Lorenz WW, Alba R, Gonçalves S, Dean J, Miguel C (2008) Global gene expression analysis during *P. pinaster* embryo development. 2008 Plant Genomics Europe Meeting (GEM), September 24-27, Albena, Bulgaria
64. Bagal U, Lorenz WW, Dean JFD (2009) Annotation of differentially expressed genes in Pinus species using a loblolly pine cDNA microarray. UGA Institute of Bioinformatics Retreat, January 7, Athens, GA
65. Lorenz WW, Dean, JFD (2009) Transcriptional profiling of loblolly pine (*Pinus taeda*) undergoing drought stress using a cDNA microarray. XVIIth Plant and Animal Genomes Conference, January 10-14, Forest Tree Genomics Workshop, San Diego, CA
66. Liang C, Liu Y, Liu L, Hu H, Dean JFD (2009) ConiferEST 2.0: a scalable and extensible bioinformatics platform for exploring conifer transcriptomics and genetic polymorphism. XVIIth Plant and Animal Genomes Conference, January 10-14, Forest Tree Genomics Workshop, San Diego, CA
67. Bordeaux JM, Dean JFD (2009) Bioassays for loblolly resistance to *Amylostereum areolatum* and the role of the fungus in *Sirex*-vectored pine mortality, USDA Interagency Research Forum on Invasive Species, January 13-16, Annapolis, MD
68. Lorenz WW, Dean JFD (2009) Characterizing the transcriptional space of loblolly pine (*Pinus taeda* L.). US DOE Joint Genome Institute Users Meeting, March 25-27, Walnut Creek, CA

69. Lorenz WW, Dean JFD (2009) Progress on enhanced EST resources for loblolly pine (*Pinus taeda* L.) and other conifers. 30th Biennial Southern Forest Tree Improvement Conference, May 28-June 2, Blacksburg, VA
70. Dean JFD, Lorenz WW (2009) New transcribed sequence datasets for loblolly pine (*Pinus taeda* L.) and other conifers. Biennial Meeting of the IUFRO Unit on Molecular Biology of Forest Trees, June 28-July 2, Whistler, BC
71. Bagal UR, Dean JFD (2010) Flagging of fungal contaminants in loblolly pine (*Pinus taeda* L.) ESTs. UGA Institute of Bioinformatics Retreat, January 6, Athens, GA
72. Liang C, Liu L, Kokulapalan W, Kumar P, Kumar R, Zhao Z, Bonello P, Echt CS, Sun Y-H, Sederoff R, Dean J (2010) ConiferGDB: Current status and future direction. XVIIIth Plant and Animal Genomes Conference, January 9-13, Forest Tree Genomics Workshop, San Diego, CA
73. Bordeaux JM, Dean JFD (2010) Going with your gut: Insights into nutrition and digestion in *Sirex noctilio* woodwasps at emergence, USDA Interagency Research Forum on Invasive Species, January 13-16, Annapolis, MD
74. Bordeaux JM and Dean JFD (2010) Phenoloxidase Production by *Amylostereum areolatum*: Applying an Exotic Invasive to Bioresource Conversion. Earth Day Online Poster session, April 24, Georgia Institute of Technology, Atlanta, GA
75. Yu Y-S, Burke JM, Dean JFD (2010) Candidate genes for wood formation in desert sunflower, *Helianthus argophyllus*. Biomass Systems Research Institute Annual Retreat, November 15, University of Georgia Center for Continuing Education, Athens, GA
76. Bagal UR, Leebens-Mack JH, Dean JFD (2011) Phylogenomics of the phenylalanine ammonia-lyase gene family in *Pinus taeda* and other conifers. XIXth Plant and Animal Genomes Conference, January 15-19, Forest Tree Genomics Workshop, San Diego, CA
77. Kumar PKR, Li P, Kokulapalan W, Ji G, Liu L, Magbanua Z, Lorenz WW, Dean JFD, Peterson DG, Liang C (2011) *Pinus taeda* BAC browser. XIXth Plant and Animal Genomes Conference, January 15-19, Forest Tree Genomics Workshop, San Diego, CA
78. Bagal UR, Leebens-Mack JH, Lorenz WW, Dean JFD (2011) Phylogenomic analysis of the phenylalanine ammonia lyase gene family in loblolly pine (*Pinus taeda* L.). IEEE International Conference on Bioinformatics and Biomedicine, November 12-November 15, Atlanta, GA
79. Bordeaux JM, Dean JFD, Gandhi KJ (2012) Assessing southern pine gene expression response to the venom of *Sirex noctilio* using biomarkers. 55th Southern Forest Insect Work Conference, 23-26 July 2012, Charlottesville, VA
80. Coyle DR, Klepzig K, Nowak J, Smith WD, Koch F, Orosina W, Dean JFD, Bates C, Cameron S, Gandhi KJK (2012) Abiotic and biotic factors influencing pine health in Georgia and Alabama. 55th Southern Forest Insect Work Conference, 23-26 July 2012, Charlottesville, VA
81. Bordeaux JM, Dean JFD (2013) Identifying molecular players in pathology precipitated by *Sirex noctilio* venom, USDA Interagency Research Forum on Invasive Species, January 8-11, Annapolis, MD
82. Bordeaux JM, Coyle DR, Dean JFD, Gandhi KJK (2013) Assessing the utility of a biomarker-based assay for southern pine gene expression response to *Sirex noctilio* venom. 32nd Biennial Southern Forest Tree Improvement Conference, June 10-13, Clemson, SC
83. Bordeaux JM, Dean JFD (2013) The translocated peptide from *Sirex noctilio* venom that causes needle flagging in oviposited pines. Sirex Symposium, October 14-16, Ithaca, NY

Book Reviews

1. Dean JFD (1993) Biosynthesis and Biodegradation of Cellulose, C.H. Haigler and P.J. Weimer, Eds., Marcel Dekker, NY. Reviewed in Q. Rev. Biol. 68:272
2. Dean JFD (1998) Forest Products Biotechnology, A. Bruce and J.W. Palfreyman, Eds., Taylor & Francis, UK. Reviewed in TIBTECH 16:404 ([LINK](#))
3. Dean JFD (2006) The Bioengineered Forest: Challenges for Science and Society. S. H. Strauss and H.D. Bradshaw, Eds., RFF Press, Washington, DC. Reviewed in For. Sci. 52:605 ([CITATIONS](#))

Editorial Service

Associate Editor, *Frontiers in Agricultural Biological Chemistry*, 2013-2016

Associate Editor, *Tree Genetics and Genomes*, 2005-2014

Editorial Board, *Applied Environmental Microbiology*, 2000-06

Editorial Board, *Phytoremediation: Transformation and Control of Contaminants*, SC McCutcheon and JL Schnoor, eds, John Wiley and Sons, NY

Journals Ad-hoc Reviewer

African Journal of Biotechnology; *American Chemical Society (Book Publication Div.)*; *Analytical Biochemistry*; *Annals of Botany*; *Applied and Environmental Microbiology*; *Asian Journal of Plant Science*; *Biochimica et Biophysica Acta*; *Biochemistry*; *BioTechniques*; *BMC Genomics*; *BMC Plant Biology*; *Canadian Journal of Forest Research*; *Chemosphere*; *Comparative & Functional Genomics*; *Ecological Modelling*; *European Journal of Biochemistry*; *Environmental Science and Technology*; *FEBS Letters*; *Forest Ecology and Management*; *Forest Science*; *Gene*; *Genome Biology*; *Insect Biochemistry and Molecular Biology*; *International Journal of Phytoremediation*; *International Journal of Plant Sciences*; *John Wiley and Sons, Inc. (Biochemistry & Molecular Biology Textbooks Div.)*; *Journal of Agricultural and Food Chemistry*; *Journal of Bacteriology*; *Journal of Biobased Materials and Bioenergy*; *Journal of Biological Chemistry*; *Journal of Biological Inorganic Chemistry*; *Journal of Plant Growth Regulators*; *Journal of Plant Physiology*; *Molecular Breeding*; *Nucleic Acids Research*; *Nature*; *Nature Biotechnology*; *Nature Genetics*; *New Phytologist*; *Physiologia Plantarum*; *Phytopathology*; *The Plant Cell*; *Plant Cell and Environment*; *Plant Cell Reports*; *Plant Cell Tissue and Organ Culture*; *Plant Journal*; *Plant Molecular Biology*; *Plant Physiology*; *Plant Physiology and Biochemistry*; *Plant Science*; *Planta*; *Phytochemistry*; *Proceedings of the National Academy of Sciences USA*; *Protoplasma*; *The Quarterly Review of Biology*; *RNA*; *Scanning Microscopy International*; *Science*; *Theoretical and Applied Genetics*; *Transgenic Research*; *Tree Genetics and Genomes*; *Tree Physiology*; *Trends in Biotechnology*; *Wetlands Ecology and Management*

Funding Advisory Panels

Canada Research Chairs

Ad-hoc Reviewer (2013)

Canadian Council for the Arts

Killiam Research Fellowships

Ad-hoc Reviewer

Consortium for Plant Biotechnology Research

Ad-hoc Reviewer

Czech Science Foundation

Ad-hoc Reviewer

Energy Biosciences Institute (EBI)

Ad-hoc Reviewer (2009)

European Commission, Seventh Framework Programme (FP7)

European Knowledge Based Bio-Economy (KBBE)

Ad-hoc Reviewer (2008-2010)

Genome British Columbia

Applied Genomics Innovation Program

Panel member (2008)

Genomic Applications Partnership Program

Ad hoc Reviewer (2014, 2016)

Provincial Review, GenomeCanada, Large-Scale Applied Research Project Competition

Ad hoc Reviewer (2010)

Panel member (2011, 2014-2015)

Panel member, Mid-project review (2013)
 Sector Innovation Fund
Panel member (2017-2018)
 Strategic Opportunities Fund
Panel member (2010, 2013-2014)
 Genome Canada
 Ad-hoc Reviewer
 Large-Scale Applied Research Project Competition
Chair, Forestry Panel (2010-2011, 2016)
Chair, Mid-project review (2013)
 Israel Science Foundation
 Ad-hoc Reviewer
 The Jefress Trust (North Carolina)
 Ad-Hoc Reviewer
 Louisiana Board of Regents Support Fund
Panel member (2009, 2012); **Chair** (2013, 2015-2018)
 Maryland Agricultural Experiment Station Competitive Grants
 Ad-hoc Reviewer (2008)
 National Academy of Sciences, National Research Council
 National Plant Genome Initiative 5-Year Review Workshop (July 2007)
Panelist, Commodity Crop Genomes
 National Plant Genome Initiative Workshop (August 26-28, 2008)
 National Science Foundation
 Division of Biological Infrastructure
 Advances in Biological Informatics
Panel member (2009)
 Ad-hoc Reviewer (2010)
 Division of Cellular Biosciences
 Ad-hoc Reviewer
 Small Business Initiated Research
Panel member (1995)
 Division of Environmental Biology
 Ecosystem Science Cluster
 Ad-hoc Reviewer (2005-2006, 2008-2009)
 Division of Integrative Biology and Neuroscience
 Plant Genome **Site Review Team** (2001)
 Division of Integrative Organismal Systems
 Organism-Environment Interactions
Panel member (2011)
 Division of Molecular and Cellular Biosciences
 Genes and Genome Systems Cluster
 Ad-hoc Reviewer (2005-2006, 2009)
 Natural Sciences and Engineering Research Council of Canada (NSERC),
 Ad-hoc Reviewer (2001, 2002, 2004)
 New Zealand Foundation for Research, Science and Technology
Panel member (2007), Quality Assurance review
 North Carolina Biotechnology Program
 Ad-hoc Reviewer (2000, 2002)
 Ontario Genomics

Provincial Review, GenomeCanada, Large-Scale Applied Research Project Competition
Panel member (2018)

Research Council of Norway
 Ad-hoc Reviewer (2009)

Rockefeller Foundation
 Ad-hoc Reviewer(2003)

South Carolina Experimental Program to Stimulate Competitive Research (EPSCoR)
 Ad-hoc Reviewer (2006)

Sungrant Initiative
 Ad-hoc Reviewer (2011)

Swedish Research Council Formas
Panel member, Mid-Project Review (2008), **Final Program Review** (2013-2014)

University of Georgia Research Foundation
 Biotechnology Grants Program
Panel member (2001)
 Bioenergy Seed Grants
Panel member (2010)
 Faculty Research Grants
 Panel (2013-2016)

U.S. Department of Agriculture,
 Initiative for Future Agriculture and Food Systems (IFAFS)
 Ad-hoc reviewer
 NIFA, Agriculture and Food Research Initiative
 Ad-hoc Reviewer (2010)
 SBIR Forests and Related Resources
Panel member (2012)
 NRICGP Plant Sciences Programs (Biochemistry; Growth and Development)
 Ad-hoc Reviewer (2006)
 NRICGP Improved Utilization of Wood and Wood Fiber Program
 Ad-Hoc Reviewer
Panel member (1998-2000)
Panel Manager (2001, 2002)

U.S. Department of Energy
 Joint Genome Institute,
 Community Sequencing Program
Panel member (2006-2007, 2009-2014)
 Exploratory Collaborations between the Environmental Molecular Sciences Laboratory
Panel member (2013, 2017)
 Plant Genomes for Energy Applications
Advisory Board member (2006-2009)
 JGI Users Group Executive Committee
Board member (2007-2010)
 National Institute for Global Environmental Change (NIGEC), Midwest Research Center
 Ad-hoc Reviewer (2002, 2003)
 Office of Basic Energy Sciences
 Ad-hoc Reviewer
Panel member (2000)
 Office of Biological and Environmental Research
 Plant Biosystems Design

Panel member (2012)
Office of Fossil Energy
Ad-hoc Reviewer(2003)
Small Business Initiated Research (SBIR)
Ad-hoc Reviewer (2006)
U.S. Environmental Protection Agency
STAR Graduate Fellowship program
Ad-hoc Reviewer
Panel member (1997, 1999, 2000, 2006)
STAR Endocrine Disruptors program
Panel member (1997, 1999)
U.S. – Israel Binational Agricultural Research and Development (BARD) Fund
Ad-hoc Reviewer

University Committee Service

Stanford University
Faculty Senate, Committee on Research (1978-1980)
Purdue University
Board of Trustees
Student Seat (alternate; 1981-1983)
Purdue Student Association
Director, Graduate Student Services (1981-1982)
School of Agriculture Graduate Council
Representative (1981-1982)
Biochemistry Program
Student Policy Committee, **co-founder** (1981-1982)
Mississippi State University
Office of the President
Committee on Strategic Planning (2018-2019)
Office of the Provost
Academic Department Heads Advisory Committee (ADHEC) (2017-present), **Chair** (2018-2019)
College of Agriculture and Life Sciences
Search Committee, Director, Academic Advising (2015)
Graduate School
Graduate Enrollment Advisory Committee (2017-2018)
Mississippi State Chemist Laboratory
Search Committee, Director, Environmental and Chemical Regulation (2015)
University of Georgia
Bioenergy Systems Research Institute
Executive Committee (2007-2013)
Department of Biochemistry and Molecular Biology
Computer Network Oversight Committee (1995-1996)
Faculty Search Committees
Eminent Scholar in Biotechnology, **Co-chair** (1998-1999)
P&T Committees
3rd-Year Review (2011)
Franklin College of Arts & Sciences
Integrated Life Sciences

Program and Funding Committee (2012)
 Genome Analysis Facility
 Oversight Committee, **Chair**(2001-2005)
 Institute of Bioinformatics
 Organizing Committee (2002-2004)
 Advisory Committee (2004-2006),
 Curriculum Committee (2007-2009)
 Faculty Search Committees
 Open recruitment, **Chair** (2013)
 Graduate Coordinator (2009-2013)
 P&T Committees
 3rd-Year Review (2010)
 Associate Director (2011-2013)
 Acting Director (2013-2014)
 Office of the President
 Radiation Safety Committee
 Representative (1994-2004)
 Chair (2005-2014)
 Office of the Provost
 Ad Hoc Committee on Functional Genomics/Computational Biology Space (1998)
 Committee on Studies in a Second Discipline/State of the Art Conferences (2003-2005)
 Office of the Vice President for Finance and Administration
 Search Committee, Director of Research Safety and Support Services (2012-2013)
 Office of the Vice President for Research
 University Council, Staff Representative (1991-1994)
 Coordinating Group for Initiatives Involving Plant Science (1997-2000)
 Faculty Search Committee, Director, Center for Applied Genetic Technologies (1998)
 Committee on Bioinformatics, **Chair** (2003-2004)
 Research Professionals Promotion Review Committee (2006)
 Faculty Search Committee, Eminent Scholar in Bioenergy, (2006-2007)
 Research Scientist Policies and Procedures Working Group (2008)
 Center and Institute Review Committee, UGA Cancer Center (2014)
 Plant Center
 Seminar Committee (1998-2000)
 Fund-Raising Committee (1999-2000)
 Advisory Board (1999-2001)
 Degree Initiative Committee **Chair**, (2001-2002)
 Director (2002-2005)
 Research Computing Center
 Faculty Advisory Committee (2000-01, 2006-2008)
 Research Foundation, Inc.
 Applied Life Science Faculty Research Grants Panel (2013-2014)
 Biotechnology Awards Panel (2001)
 Bioenergy Seed Grants Panel (2010)
 Warnell School of Forestry and Natural Resources
 Administrative Committee (2001-2002)
 Faculty Search Committees
 Forest Productivity (1997)
 Genomics (1998)

Wood Quality (1999)
 Genomics, **Chair** (2000)
 Eminent Scholar in Forest Biotechnology, **Chair** (2003-2008)
 Forest Finance (2010)
 Graduate Affairs Committee (1997-1999; 2001-2003)
 Graduate Student Symposium Judge (2002, 2004, 2006, 2008, 2010-2012)
 P&T Committees
 3rd-Year Review (2008, 2011)
 Promotion and Tenure – Advocate/Evaluator (2005, 2007, 2009, 2010)
 Post-Tenure Review (2004, 2007, 2009), **Chair** (2012)
 Research Coordination and Review (2003-2006)
 Staff Awards Committee (2004-2005)

Other Service

USDA Southern IPM Center

Friends of IPM – Graduate Student Awards Committee (2017)

External Review of Departments and Organizations

Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, Pretoria, South Africa, August 2008

Scion, Rotorua, New Zealand, Mid-Project Review, April 2009

Department of Entomology and Plant Pathology, Auburn University, April 2016

Faculty Mentoring

1. Dr. Jan Mrazek IOB/Department of Microbiology, UGA, 2008-2010
2. Dr. Michael J. Yabsley Warnell School of Forestry and Natural Resources, UGA, 2008-2010

Visiting Scholars

1. Ms. Marta Simões (10/07 – 06/08) Ph.D. candidate, Forest Biotech Laboratory, IBET / ITQB, Oeiras, Portugal, Dr. Célia Miguel (advisor)
2. Dr. Fred Asiegbu (08/12) Professor, Forest Pathology, University of Helsinki

Postdoctoral Advisor

1. Dr. Raja Sterjiades (03/91 - 06/93) Current position: Financial Consultant, Avenir Epargne, Grenoble, France
2. Dr. Lan Liu-Gitz (07/93 - 02/95) Current position: Special Needs Instructor, School of Education, Texas Tech University, Lubbock, TX
3. Dr. Peter R. LaFayette (07/94 - 06/98) Current position: Assistant Research Scientist, Crop and Soil Sciences Department, UGA, Athens, GA
4. Dr. W. Walter Lorenz (07/96 - 10/05) Current position: Assistant Research Scientist, Warnell School of Forest Resources, UGA, Athens, GA
5. Dr. Bonnie C. McCaig (12/98 - 07/01) Current position: Research Scientist, BASF Corporation, Research Triangle Park, NC
6. Dr. Chulhwan Kim (02/00 - 04/01) Current position: Principal Senior Scientist, Genocoea Biosciences, Boston, MA
7. Dr. Chieh-Ting Wang (08/05 - 03/06) Current position: Research Scientist, Experimental Forest, National Taiwan University, Taipei
8. Dr. Shenghua Yuan (06/06 - 05/07) Current position: Postdoctoral Researcher, Department of Ecology and Evolutionary Biology, Yale University, New Haven, CT

Graduate Student Research Advisor

1. J. Todd Hoopes, Ph.D. Department of Biochemistry and Molecular Biology, UGA, 1994-2004.
Current position: Staff Scientist, Institute for Bioscience and Biotechnology, National Institute of Standards and Technology, Rockville, MD
2. John R. Barnes, Ph.D. Department of Biochemistry and Molecular Biology, UGA, 1996-2005.
Current position: Research Scientist, Centers for Disease Control, Atlanta, GA
3. Drew Ekman, Ph.D. Department of Biochemistry and Molecular Biology, UGA, 2001-2003.
Current position: Research Chemist, U.S. Environmental Protection Agency Laboratory, Athens, GA
4. Chieh-Ting Wang, Ph.D. Warnell School of Forestry and Natural Resources, UGA, 2000-2005.
Current position: Research Scientist, Experimental Forest, National Taiwan University, Taipei
5. Shenghua Yuan, Ph.D. Warnell School of Forestry and Natural Resources, UGA, 2000-2006.
Current position: Postdoctoral Researcher, Dept. of Ecology and Evolutionary Biology, Yale University, New Haven, CT
6. J. Michael Bordeaux, M.S. Warnell School of Forestry and Natural Resources, UGA, 2006-2008
Ph.D. Warnell School of Forestry and Natural Resources, UGA, 2008-2014.
Current position: QC Chemist, Noramco, Athens, GA
7. Ujwal Bagal, Ph.D. Bioinformatics Program, UGA, 2007-2013. Current position: Postdoctoral Researcher, Centers for Disease Control, Atlanta, GA
8. Yuan-Sheng Yu, M.S. Warnell School of Forestry and Natural Resources, UGA, 2009-2012
Current position: Research Associate, Lux Research, Inc., Singapore

Service on Graduate Student Research Committees

1. Xiaoxi Meng, Ph.D. BCHEPP, MSU, 2015-2018
2. Loida Perez BCHEPP, MSU, 2016-present
3. Whit Ables (DNF) BCHEPP, MSU, 2016-2017
4. Setareh Nejat BCHEPP, MSU, 2018-present
5. Justin Jones BCHEPP, MSU, 2018-present
6. Amanda Gaudin BCHEPP, MSU, 2018-present
7. Brent Ridley, Ph.D. Department of Biochemistry and Molecular Biology, UGA, 1994-2000
8. Chih-Cheng Chen, Ph.D. Department of Biochemistry and Molecular Biology, UGA, 1994-1998
9. Christopher Hoehamer, Ph.D. Department of Biochemistry and Molecular Biology, UGA, 1994-2000
10. Anand Sethuraman, Ph.D. Department of Biochemistry and Molecular Biology, UGA, 1995-1997
11. Jonathan Moon, Ph.D. Department of Biochemistry and Molecular Biology, UGA, 1998-2005
12. Hakan Bermek, Ph.D. Department of Biochemistry and Molecular Biology, UGA, 1998-1999
13. Allan Cooper, M.S. Department of Biochemistry and Molecular Biology, UGA, 1998-1999
14. David Banks, Ph.D. Department of Biochemistry and Molecular Biology, UGA, 1999-2002
15. Ivana Gelineo, Ph.D. Department of Biochemistry and Molecular Biology, UGA, 1999-2001
16. Stephen Mast, Ph.D. Department of Biochemistry and Molecular Biology, UGA, 1999-2004
17. Israel Scott Department of Biochemistry and Molecular Biology, UGA, 2013-2014
18. Amanda Rhaesa Department of Biochemistry and Molecular Biology, UGA, 2013-2014
19. Maria Monteros, Ph.D. Department of Crop and Soil Sciences, UGA, 2004-2006
20. Lohitash Karumbaiah, Ph.D. Department of Entomology, UGA, 2005-2007
21. Lorina Baker, Ph.D. Department of Genetics, UGA, 2000-2005
22. Kimberly Hunt, Ph.D. Department of Genetics, UGA, 2002-2008
23. Chang, Pai-Tsang, Ph.D. Department of Horticulture, UGA, 2006-2007
24. Madhumita Dash, Ph.D. Department of Horticulture, UGA, 2010-2012

25. Suzanne DeBlois, M.S. Department of Microbiology, UGA, 1991-1996
26. Jennifer R. Walker, Ph.D. Department of Microbiology, UGA, 1999-2002
27. Megan Patch, M.S. Department of Microbiology, UGA, 2009-2010
28. Xiaolan Zhang, Ph.D. Department of Plant Biology, UGA, 2003-2007
29. Yupeng Wang, Ph.D. Institute of Bioinformatics, UGA, 2009-2010
30. Yulun Chiu, Ph.D. Institute of Bioinformatics, UGA, 2011-2015
31. Tess Griffin, Ph.D. Institute of Bioinformatics, UGA, 2012-2015
32. Yiheng Yan Institute of Bioinformatics, UGA, 2013-2014
33. Myoung Kim, Ph.D. Warnell School of Forest Resources, UGA, 1993-1997
34. Dongsheng Che, M.S. Warnell School of Forest Resources, UGA, 1998-2000
35. Benjamin Lassiter, Ph.D. Warnell School of Forest Resources, UGA, 2000-2004
36. John Majzstrik, M.S. Warnell School of Forest Resources, UGA, 2001-2004
37. Brant Faircloth, Ph.D. Warnell School of Forest Resources, UGA, 2001-2008
38. Amparo Lima, M.S. Warnell School of Forest Resources, UGA, 2001-2003
39. Paul David Jones, Ph.D. Warnell School of Forestry and Natural Resources, UGA, 2003-2006
40. Elena Ceballos, M.S. Warnell School of Forestry and Natural Resources, UGA, 2006-2007
41. Timothy Wertin, Ph.D. Warnell School of Forestry and Natural Resources, UGA, 2006-2010
42. Lindsey Tuominen, Ph.D. Warnell School of Forestry and Natural Resources, UGA, 2008-2012
43. Jamie Dinkins, M.S. Warnell School of Forestry and Natural Resources, UGA, 2009-2011
44. Brian Shamblin, Ph.D. Warnell School of Forestry and Natural Resources, UGA, 2009-2011
45. Brittany Barnes, M.S. Warnell School of Forestry and Natural Resources, UGA, 2010-2012
46. Miles Ingwers, Ph.D. Warnell School of Forestry and Natural Resources, UGA, 2013-2016
47. Rene Kapik, Ph.D. Institute of Paper Science and Technology, Atlanta, GA, 1990-1994
48. Vincent Ciavatta, M.S., Ph.D. Institute of Paper Science and Technology, Atlanta, GA, 1994-1995, 2002
49. Patrick Bryant, M.S. Institute of Paper Science and Technology, Atlanta, GA, 1995-1996
50. Stephen Van Winkle, Ph.D. Institute of Paper Science and Technology, Atlanta, GA, 1996-2000
51. Cristine Estes, M.S. Institute of Paper Science and Technology, Atlanta, GA, 1996-1997
52. Mili Shah, Ph.D. IPST at the Georgia Institute of Technology, Atlanta, GA, 2004-2008
53. Brande Jones, Ph.D. IPST at the Georgia Institute of Technology, Atlanta, GA, 2008-2011

External Dissertations or Theses Examined

1. Howitt, Jason, Ph.D., “Structure Function Studies on the Multi-Copper Oxidase Laccase,” School of Engineering and Science, Swinburne University of Technology, Victoria Australia, Fall 2001
2. Forneris, Natasha, Ph.D., “Metabolism of Small Carbon Molecules in the Cambium and Developing Xylem of *Pinus strobus* L.,” School of Forestry and Environmental Management, University of New Brunswick, Saint John, NB, Canada, Spring 2004
3. Haque, Imanul, Ph.D., “Development of Molecular Markers and Biodiversity Study of Guggul (*Commiphora wightii*),” Birla Institute of Technology, Ranchi, India, Summer 2009
4. Uddenberg, Daniel, Ph.D., “Developmental Phase Transitions in Norway Spruce,” Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden, January 2014
5. Khanam, Rasheeda, (failed), “Strain improvement and media optimization for enhanced laccase production from *Pycnoporus cinnabarinus* and *Trametes hirsuta*,” GITAM University, Visakhapatnam, Pradesh, India, June 2014
6. Ritesh Mewalal, Ph.D., “Functional characterization of cell wall related proteins of unknown function (CW-PUFs) in *Arabidopsis thaliana*,” University of Pretoria, South Africa, January 2016

External Faculty Evaluations for Promotion & Tenure or Awards

- 1998 Department of Forest Biology, Institute of Paper Science and Technology (P&T)
- 2003 Department of Forestry, Michigan State University (P&T)
- 2004 School of Forest Resources and Environmental Science, Michigan Technological University (P&T)

- 2005 School of Forest Resources and Environmental Science, Michigan Technological University (Research Award)
- 2005 Department of Soil, Water and Environmental Science, University of Arizona (P&T)
- 2005 Department of Plant Sciences, University of California, Davis (P&T)
- 2005 Department of Plant and Soil Sciences, University of Delaware (P&T)
- 2005 School of Forest Resources and Conservation, University of Florida (P&T)
- 2006 School of Forest Resources and Environmental Science, Michigan Technological University (Research Award)
- 2006 School of Forest Resources and Environmental Science, Michigan Technological University (P&T)
- 2006 Department of Soil, Water and Environmental Science, University of Arizona (P&T)
- 2007 Department of Forest Products, Mississippi State University (P&T)
- 2007 Department of Plant and Soil Sciences, Mississippi State University (P&T)
- 2008 School of Biology, Georgia Institute of Technology (P&T)
- 2009 Department of Botany, Miami University (Ohio) (P&T)
- 2009 Department of Plant Pathology, Ohio State University (P&T)
- 2010 Department of Horticulture, Michigan State University (P&T)
- 2011 Faculty of Agricultural and Natural Sciences, University of Pretoria (P&T)
- 2011 Department of Biological Sciences, University of Alberta (P&T)
- 2011 Department of Ecosystem Science and Management, Texas A&M University (P&T)
- 2011 Department of Plant and Soil Sciences, Mississippi State University (P&T)
- 2012 Faculty of Forest Sciences and Forest Ecology, Göttingen University (P&T)
- 2013 Prepared and submitted nomination packet for Dr. Erin L. Dolan, UGA Department of Biochemistry and Molecular Biology, **Recipient** of the American Society of Plant Biology Excellence in Education Award
- 2013 Department of Forestry and Environmental Resources, North Carolina State University (P&T)
- 2017 Department of Genetics, University of Pretoria, S.A. (NRF Rating)

Undergraduate Research Project Advisor

1. Charles Peeler Department of Biochemistry and Molecular Biology, UGA, 1994
2. Amy Gifford Department of Biochemistry and Molecular Biology, UGA, 1995
3. Jennifer R. Smith Department of Biochemistry and Molecular Biology, UGA, 1995-96; Howard Hughes Internship, summer 1995
4. Scott Rahimi Department of Biochemistry and Molecular Biology, UGA, 1996
5. Samantha Alexander Howard Hughes Internship, summer 1996; Department of Biology, 1996-1997 (Honors)
6. Veronica Jelkes Howard Hughes Internship, summer 1997
7. Nathaniel Cospier Center for Metalloenzyme Studies Internship, summer 1997
8. Pavan Pancholy Center for Metalloenzyme Studies Internship, summer 1997
9. Lisa Sanderson Department of Biochemistry and Molecular Biology, UGA, 1998
10. Carlene Richardson Department of Biochemistry and Molecular Biology, UGA, 1998
11. William Bowers Department of Biochemistry and Molecular Biology, UGA, 2000
12. Alan Humphries Department of Biochemistry and Molecular Biology, UGA, 2001-2002
13. Erine Raybon Department of Biochemistry and Molecular Biology, UGA, 2002-2003
14. Rebecca Hanif Department of Biochemistry and Molecular Biology, UGA, 2004
15. Dilhara De Silva Center for Undergraduate Research (CURO) Fellow, UGA, 2005
16. Andrew Durso Center for Undergraduate Research (CURO) Fellow, UGA, 2005; Winner, 2006 Laerm Undergraduate Research Award
17. Devin Smith Center for Undergraduate Research (CURO) Fellow, UGA, 2005
18. Tyler Reed Department of Biochemistry and Molecular Biology, UGA, 2008-2009 (Honors)

19. Tarang Choxi Department of Biology, UGA, 2009-2010
 20. Amonae Dabbs-Brown Warnell School of Forestry and Natural Resources, UGA, 2012-2013

Public Education and Outreach

Host, WSFNR presentation to the Georgia Science Teachers Association Meeting, Feb. 2008
 Judge, High School Science and Engineering Fair, Prince George’s County, MD 1988-1990
 Judge, Georgia State High School Science and Engineering Fair,
 Tier I, 1991-1998
 Tier II, 1999-2005
 Tier III, 2006-2014
 Judge, Georgia Junior Science and Humanities Symposium, 2003, 2004, 2009
 Judge, Grand Awards Co-Chair (Plant Sciences), Intel International Science and Engineering Fair, Atlanta, GA 2008
 Judge, Mississippi State High School Science and Engineering Fair, 2017

Professional Society Activities

American Association for the Advancement of Science (AAAS), Member
 American Phytopathological Society (APS), Member
 American Society for Biochemistry and Molecular Biology (ASBMB), Member
 Association of Medical and Graduate Biochemistry Departments (AMGDB), Member
 American Society of Microbiologists (ASM), Member
 American Society of Plant Biologists (ASPB), Member
 Entomological Society of America (ESA), Member
 International Academy of Wood Science (IAWS), Fellow
 Mississippi Agricultural Industry Council (MAIC), Member
 Mississippi Entomological Association, Executive Vice President
 Mississippi Association of Plant Pathologists and Nematologists (MAPPAN), Member
 Sigma Xi
 University of Georgia Chapter Program Committee 2001-2002
 Treasurer 2002-2014

Courses Taught

Mississippi State University
 BCH 4013/6013 General Biochemistry II (Fa 15)
 University of Georgia
 BCMB 6000 General Biochemistry and Molecular Biology (Fa 11-12)
 BINF 8001 Introduction to Bioinformatics (Fa 11-12)
 BINF 8900L Bioinformatics Laboratory Rotation (Fa 09-11, Sp 10-11)
 BINF 8970 Current Topics in Research (Fa 07-12, Sp 08-11)
 FRES 1020 Everything I Need to Know About Life I Learned from Trees (Sp 09-10, Fa 10)
 FANR 8200 Introduction to Research in Natural Resources (W 97-98, Sp 99-03, Fa 03-05, 09-12, Sp 06-10)
 FORS 8040 Current Topics in Forest Biotechnology (Fa 96, Fa 99, Fa 02, Sp 06)
 FORS 8070 Plant Biotechnology Research Journal Seminar (Fa 04, Sp 05)