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Home page: <http://www.forestry.oregonstate.edu/coops/tbgrc/Staff/strauss/index.htm>

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PROFESSIONAL EXPERIENCE

7/09-present **Distinguished Professor**, Oregon State University
11/04-present **Director**, Outreach in Biotechnology, Oregon State University
7/95-present **Professor**, Forest Ecosystems and Society; Molecular & Cellular Biology
1/01-4/01 **Visiting Senior Fellow**, Linacre College, Oxford University, UK
1/01-4/01 **Visiting Scientist**, Department of Plant Science, Oxford Forestry Institute, UK
7/90-6/95 **Associate Professor**, Department of Forest Science, OSU
7/94-present **Director, Tree Genomics and Biosafety Research Cooperative**, OSU
7/99-present **Director, National Science Foundation Center for Tree Genetics**
(Industry/University Cooperative Research Centers Program)
6/93-8/93 **Visiting Scientist**, INRA, Versailles & Orleans, France
9/91-6/92 **Visiting Professor**, Australian National University, Canberra, Australia
9/91-6/92 **Visiting Scientist**, CSIRO Division of Plant Industry, Canberra, Australia
6/90-7/90 **Visiting Scientist**, Department of Botany, Tromsø University, Norway
7/85-6/90 **Assistant Professor**, Department of Forest Science and Genetics Program, OSU
7/85-9/85 **Visiting Scientist**, US Forest Service, Berkeley, California (Sederoff laboratory)

EDUCATION

Ph.D. 1985 **University of California at Berkeley**, Forest Resources (Genetics)
M.F.S. 1980 **Yale University**, School of Forestry and Environmental Studies (Forest Science)
B.S. 1978 **Cornell University**, College of Agriculture and Life Science (Biology)

PROFESSIONAL CONTRIBUTIONS

Honors and Professional Work

National/International Scientific Activities

◆ Peer review publications: 132. Other articles: 59. Edited books: 3. Invited lectures: 201.

- ◆ Obtained grants from NSF, DOE, USDA, NIH, EPA, forest industries, and other sources totaling 17.1 million dollars.
- ◆ [Barrington-Moore Memorial Award](#) from the [Society of American Foresters](#), recognizing outstanding achievement in biological research leading to the advancement of forestry, 2011.
- ◆ Fellow, American Association for the Advancement of Science, 2009
- ◆ Forest Biotechnologist of the Year, Forest Biotechnology Partners, Institute of Forest Biotechnology, 2009
- ◆ Leopold Leadership Fellow, Stanford Institute for the Environment, 2005
- ◆ Awarded US patent No. 6,395,892 B1; May 28, 2002.
- ◆ Trained 24 graduate students, 23 postdoctoral scientists, and 39 technical/professional employees (BS or higher degrees).
- ◆ Scientific Oversight Committee, Forest Health Initiative, Institute of Forest Biotechnology, NC, 2009-2011.
- ◆ Scientific Advisory Committee, Genome BC Applied Genomics Innovation Program, "Optimized *Populus* feedstocks and novel enzyme systems for a British Columbia bioenergy sector," 2008-2011
- ◆ Chair and organizer of New Phytologist Symposium on "Physiological Sculpture of Plants," Mt. Hood, Oregon, September 2008.
<http://www.newphytologist.org/physiological/default.htm>
- ◆ Chair, Scientific Advisory Board, Genome Canada-Quebec research consortium "Arborea," studying "Functional Genomics of Regulation of Trees," Quebec City, Canada, 2003-2006.
- ◆ External Review Committee, Michael Smith (formerly Biotechnology) Laboratories, University of British Columbia, April 2005
- ◆ Presented invited lectures to federal judges and law professors at the Foundation for Research on Economics and the Environment, July and September 2002 & June 2003, June 2009, Bozeman, Montana
- ◆ Chair Scientific Organization Committee, Workshop on Horticultural, Urban Forestry, Health and Environmental Benefits of Flowering Modification in Transgenic Trees, Institute for Forest Biotechnology/North Carolina Biotechnology Center, February 2003.
- ◆ Steering Committee Member, International Poplar Genome Sequence, organized by Joint Genomics Institute, Department of Energy, 2001-2003.
- ◆ Chairman, International Union of Forestry Research Organizations Working Party on Molecular Genetics of Forest Trees, S.04-06, 1995-1999

Analysis and Outreach in Transgenic Biotechnologies

- ◆ Organizer of Food for Thought public outreach lecture series at Oregon State University (filmed and available via web, with curriculum guides for teachers), 2005-2011
<http://agsci.oregonstate.edu/orb/events>
- ◆ Committee member, National Research Council, Review and Future Goals for the National Plant Genome Research Program, 2007.
- ◆ Committee member, National Research Council Workshop on Environmental Effects of GMOs. Dept. of the Interior. 2007.

- ◆ Invited participant at the Foundation for Research on Economics and the Environment, Conference on “Breakthroughs in Entrepreneurship and Public Policy,” June 2008, Bozeman, Montana.
- ◆ Invited participant at Institute for Forest Biotechnology Symposium on Genetically Engineered Forest Trees: A Workshop to Identify Priorities for Ecological Risk Assessment. May 3-4, 2007, Raleigh, NC.
- ◆ Invited speaker at Pew Initiative / USDA APHIS sponsored workshop: Emerging Challenges for Biotechnology-Derived Specialty Crops, Washington, DC (January 2007).
- ◆ Invited member of State of Oregon Committee charged to formulate recommendations to the governor on regulation of biopharm crops in Oregon (2005-2006).
- ◆ Led in providing recommendations to USDA APHIS on regulation of genetically engineered crops that were supported by more than 60 scientists, March 2004.
- ◆ Invited speaker at USDA Workshop on Public Research and Regulatory Review of Small-Market Biotechnology-Derived Crops, November 2004, Washington, DC.
- ◆ Invited participant, Pew Initiative on Biotechnology, Workshop on Impacts of Biotech Regulation on Small Business and University Research: Possible Barriers and Potential Solutions, June 2004.
- ◆ Invited speaker in forest biotechnology symposium at United Nations (UNIDO) Global Forum on Biotechnology, Concepcion, Chile, March 2004.
- ◆ Invited speaker at Canadian Forest Service / Canadian Food Inspection Service panel on Regulatory Challenges in Forest Biotechnology, World Forestry Congress, Quebec City, Canada, September 2003.
- ◆ Invited to present lecture on “state of science” at USDA APHIS national meeting on regulation of genetically engineered trees, Greenbelt, MD, July 2003.
- ◆ Invited Science Facilitator at Stakeholder Meeting on USDA Biotechnology Risk Assessment Grant Program Review, Washington, D.C., June 2003.
- ◆ Planning Committee, National Agricultural Biotechnology Council Annual Meeting, Seattle, WA, 2002-2003
- ◆ Steering Committee Member, National Workshop on Risks of Field Testing of Transgenic Crops with Novel Genes, Information Systems for Biotechnology, 2001-2002.
- ◆ Co-organizer, International Symposia on Ecological and Societal Aspects of Transgenic Plantations, and International Organization of Forest Research Organizations (IUFRO) Section on Molecular Biology of Forest Trees. Stevenson, Washington, USA, 2001.
- ◆ Planning Committee, Institute for Forest Biotechnology, Research Triangle Park, North Carolina, 1999-2000
- ◆ Invited to make formal presentation on forest biotechnology to New Zealand Royal Commission on Genetic Modification, 2000.
- ◆ Group Leader, Information Systems for Biotechnology/USDA APHIS Workshop on Ecological Effects of Pest Resistance Genes, 1999

Teaching and Academic Achievement

- ◆ Awarded “Extraordinary Performance” recognition as result of five-year Post-Tenure Review in the College of Forestry, Oregon State University, September 2002

- ◆ Mentor's Hall of Fame, Oregon State University Apprenticeships in Science and Engineering, 2001-2006
- ◆ Dean's Award for Outstanding Achievement, OSU College of Forestry, 1998
- ◆ Co-convenor of session on tree biotechnology, AAAS Pacific Division Meeting, Corvallis, OR, 1997
- ◆ NSF Presidential (Young) Investigator, 1989
- ◆ Phi Kappa Phi, Oregon State University, Emerging Scholar Award, 1989

Scientific Review Panels

- ◆ USDA Biotechnology Risk Assessment, 2011
- ◆ USDA Agricultural Research Service, Ornamentals 2007
- ◆ Consortium for Plant Biotechnology Research, 2006
- ◆ Panel Manager, Biotechnology Risk Assessment Grants, 1999
- ◆ National Science Foundation
 - IGERT: Interdisciplinary Graduate Education Research & Training, 2001
 - Population Biology & Physiological Ecology, 1991
 - Conservation & Restoration Biology, 1990
- ◆ U.S. Department of Agriculture Competitive Grants Review
 - Biotechnology Risk Assessment, 1998
 - Forest Biology, 1990

National Research Council Service

- ◆ Plant Genome Research Program, 2007
- ◆ Workshop on Impacts of GMOs on Department of Interior Lands, 2007
- ◆ Reviewer, Biological Confinement of Genetically Engineered Organisms, 2004
- ◆ Review of Biofuels Research Program of the U.S. Department of Energy, 1999
- ◆ Intellectual Property Issues in Plant Biotechnology, 1996
- ◆ NSF Graduate Fellowship, 1993

Member of Editorial Boards

- ◆ New Phytologist, 2003-present
- ◆ Biomedcentral Plant Biology 2004-present
- ◆ Tree Genetics and Genomes, 2004-2006
- ◆ New Zealand Journal of Forestry Science 2005-2010
- ◆ Forestry: An International Journal of Forestry Research, 2002-2010
- ◆ Forest Genetics, 1994-96

REFEREED PUBLICATIONS –2000-present (total 129)

Review/analysis

1. Strauss, S.H. 2011. [Why Are Regulatory Requirements a Major Impediment to Genetic Engineering of Horticultural Crops?](#) In B. Mou and R. Scorza (eds) *Transgenic Horticultural Crops: Challenges and Opportunities*. Boca Raton, Florida: CRC Press, Taylor & Francis Group

2. Busov, V., S.H. Strauss, and G. Pilate. 2010. [Transformation as a tool for genetic analysis in *Populus*](#). p. 113-133 in: Genetics and Genomics of *Populus*, S. Jansson et al. eds., Springer.
3. Yuceer, C., Hsu, C-H., Brunner, A.M., and Strauss, S.H. 2011. [Regulation of Flowering Time in Poplar](#). In: Genetics, Genomics, and Breeding of Poplar, C.P. Joshi, S. DiFazio, and C. Kole (eds.). Science Publishers, New Hampshire USA. Chapter 11, pp. 272-303
4. Strauss, S.H., D..L. Kershen, J.H. Bouton, T.P. Redick, H. Tan, and R. Sedjo. 2010. [Far-reaching deleterious impacts of regulations on research and environmental studies of recombinant DNA-modified perennial biofuel crops in the USA](#). *BioScience* (in press).
5. Strauss, S.H., H. Tan, W. Boerjan, and R. Sedjo. 2009. [Strangled at birth? Forest biotech and the Convention on Biological Diversity](#). *Nature Biotechnology* 27:519-527.
6. Yuceer, C., Hsu, C-H., Brunner, A.M., and Strauss, S.H. 2009. Regulation of flowering time in poplar. In: Genomics of Poplars, C.P. Joshi and S. DiFazio (eds.), Science Publishers, New Hampshire, USA. (in press).
7. Flachowsky, H., M.-V. Hanke, A. Peil, S.H. Strauss, and M. Fladung. 2009. [A review on transgenic approaches to accelerate breeding of woody plants](#). *Plant Breeding* 128:217-226.
8. Busov, V.B., A.M. Brunner and S.H. Strauss. 2008. [Genes for control of form and stature in plants](#). *New Phytol.* (Tansley review) 177: 589-607.
9. Brunner, A., J. Li, S. DiFazio, O. Shevchenko, R. Mohamed, B. Montgomery, A. Elias, K. Van Wormer, S.P. DiFazio, & S.H. Strauss. 2007. [Genetic containment of forest plantations](#). *Tree Genetics & Genomes* 3: 75-100. (Strauss is co-senior author)
10. Arias, R., S. Filichkin, and S.H. Strauss. 2006. [Divide and conquer: development and cell cycle genes in plant transformation](#). *Trends Biotechnol.* 24:267-273.
11. Busov, V.B., M. Fladung, A. Groover, and S.H. Strauss. 2005. [Insertional mutagenesis in *Populus*: Relevance and feasibility](#). *Tree Genet. & Genomes* 1:135-142.
12. Bradford, K., N. Gutterson, A. Van Deynze, W. Parrott, and S.H. Strauss. 2005. [Regulating biotech crops sensibly: Lessons from plant breeding, biotechnology and genomics](#). *Nature Biotechnol.* 23:439-444.
13. Busov, V.B., A.M. Brunner, R. Meilan, S. Filichkin, L. Ganio, S. Gandhi, and S.H. Strauss. 2005. [Genetic transformation: A powerful tool for dissection of adaptive traits in trees](#). *New Phytol.* 167:219-228.
14. Strauss, S.H., A.M. Brunner, V. Busov, C. Ma, and R. Meilan. 2004. [Ten lessons from 15 years of transgenic *Populus* research](#). *Forestry* 77:455-465.
15. Brunner, A.M., V. Busov, and S.H. Strauss. 2004. [The poplar genome sequence: functional genomics in an ecologically dominant plant species](#). *Trends Plant Sci.* 9:49-56.
16. Slavov, G.T., S.P. DiFazio, and S.H. Strauss. 2003. [Gene flow in forest trees: Gene migration patterns and landscape modeling of transgene dispersion in hybrid poplar](#). In H.C.M den Nijs, D. Bartsch and J. Sweet (Eds.), *Introgression from Genetically Modified Plants into Wild Relatives*, CAB International, UK, pp. 89-106.
17. Strauss, S.H. 2003. [Genomics, genetic engineering, and domestication of crops](#). *Science* 300:61-62.

18. Campbell, M.M., A.M. Brunner, H.M. Jones, and S. H. Strauss. 2003. [Forestry's Fertile Crescent: The application of biotechnology to forest trees](#). *Plant Biotech. J.* 1:141-154.
19. Strauss, S.H., and A. M. Brunner. 2004. [Tree biotechnology in the 21st century: Transforming trees in the light of comparative genomics](#). In: *The BioEngineered Forest: Challenges to Science and Society*, S.H. Strauss and H.D. Bradshaw, Eds. Resources for the Future, Washington, D.C., pp. 76-97.
20. Adams, J.M., G. Piovesan, S.H. Strauss, and S. Brown. 2002. [The case for genetic engineering of native and landscape trees against introduced pests and diseases](#). *Conserv. Biol.* 16:874-879.
21. Strauss, S.H., M.M. Campbell, S.N. Pryor, P. Coventry, and J. Burley. 2001. [Plantation certification and genetic engineering: Banning research is counterproductive](#). *J. Forestry* 99(12):4-7.
22. Strauss, S.H., P. Coventry, M.M. Campbell, S.N. Pryor, and J. Burley. 2001. [Certification of genetically modified forest plantations](#). *Internat. Forestry Rev.* 3(2):87-104.
23. Strauss, S.H., S. DiFazio, and R. Meilan. 2001. [Genetically modified poplars in context](#). *Forestry Chron.* 77(2):1-9.
24. Bradshaw, H.D., Jr., and S.H. Strauss. 2000. [Breeding strategies for the 21st century: Domestication of poplar](#). In: Dickmann, D.I., Isebrands, J.G., Eckenwalder, J.E. and Richardson, J. (eds.). *Poplar Culture in North America, Part 2, Chapter 14*. NRC Research Press, National Research Council of Canada, Ottawa, ON K1A 0R6, Canada, p. 383-394.
25. Thompson, P.B., and S.H. Strauss. 2000. [Research ethics for molecular silviculture](#). P. 585-611 In: *Molecular Biology of Woody Plants*, S.M. Jain & S.C. Minocha, Eds., Kluwer Academic Publishers, The Netherlands.
26. Skinner, J.S., R. Meilan, A.M. Brunner, and S.H. Strauss. 2000. [Options for genetic engineering of floral sterility in forest trees](#). In: S.M. Jain and S.C. Minocha (Eds.), *Molecular Biology of Woody Plants*, volume 1. Kluwer Academic Publishers, Dordrecht, The Netherlands, pp. 135-153.

Research reports

27. Zawacki, C., M. Kadmiel, J. Pickens, C. Ma, S.H. Strauss, V. Busov. 2011. Repression of gibberellin biosynthesis or signaling produces striking alterations in poplar growth, morphology, and flowering. *Planta* (in press)
28. Hsu, C-Y, Adams, J.P., Kim, H., No, K., Ma, C., Strauss, S.H., Drnevich, J., Vandervelde, L., Ellis, J.D., Rice, B.M., Wickett, N., Gunter, L.E., Tuskan, G.A., Brunner, A.M., Page, G.P., Barakat, A., Carlson, J.E., dePamphilis, C.W., Luthe, D.S., and C. Yuceer. 2011. [FLOWERING LOCUS T duplication coordinates reproductive and vegetative growth in perennial poplar](#). *PNAS* 108(26): 10756-10761
29. Zawacki C., Kadmiel M., Ma C., Gai Y., Jiang X., Strauss S.H., and Busov V.B. 2011. *SHORT INTERNODES*-like genes regulate shoot growth and xylem proliferation in *Populus*. *New Phytologist* (in press).
30. Dalton, D.A, C. Ma, S. Shrestha, P. Kitin and S.H. Strauss. 2011. [Tradeoffs between biomass growth and inducible biosynthesis of polyhydroxybutyrate in transgenic poplar](#). *Plant Biotech. J.* 2011:1-9.

31. Voelker, S.L., Lachenbruch, B., Meinzer, F.C., Kitin, P. and S.H. Strauss. 2011. [Transgenic poplars with reduced lignin show impaired xylem conductivity, growth efficiency and survival](#). *Plant, Cell & Environment*, DOI: 10.1111/j.1365-3040.2010.02270.x
32. Voelker, S.L., B. Lachenbruch, F.C. Meinzer, and S.H. Strauss. 2011. [Reduced wood stiffness and strength, and altered stem form, in young antisense 4CL transgenic poplars with reduced lignin contents](#). *New Phytologist*, 189(4): 1096-1109
33. Han, K.M., P. Dharmawardhana, R.S. Arias, C. Ma, V. Busov and S.H. Strauss. 2011. [Gibberellin-associated cisgenes modify growth, stature, and wood properties in Populus](#). *Plant Biotechnol. J.* 9:162-78.
34. Busov, V., Y. Yordanov, J. Gou, R. Meilan, C. Ma, S. Regan, and S.H. Strauss. 2010. [Activation tagging is an effective gene tagging system in Populus](#). *Tree Genetics & Genomes*, DOI 10.1007/s11295-010-0317-7
35. Voelker, S.L., B. Lachenbruch, F.C. Meinzer, M. Jourdes, C. Ki, A.M. Patten, L.B. Davin, N.G. Lewis, G.A. Tuskan, L. Gunter, S.R. Decker, M.J. Selig, P. Kitin and S.H. Strauss. 2010. [Antisense down-regulation of 4CL expression alters lignification, tree growth and saccharification potential of field-grown poplar](#). *Plant Physiology* 154: 874-886.
36. Kitin, P., S.L. Voelker, F.C. Meinzer, H. Beeckman, S.H. Strauss and B. Lachenbruch. 2010. [Tyloses and phenolic deposits in xylem vessels impede water transport in low-lignin transgenic poplars: a study by cryo-fluorescence microscopy](#). *Plant Physiology* 154: 887-898.
37. Slavov G.T., Leonardi S., Adams W.T., Strauss S.H., DiFazio S.P. 2010. [Population substructure in continuous and fragmented stands of Populus trichocarpa](#). *Heredity* 105:348–357.
38. Mohamed, R., Wang, C.-T., Ma, C., Shevchenko, O., Dye, S.J., Puzey, J.R., Etherington, E., Sheng, x., Meilan, R., Strauss, S.H. and A.M. Brunner. 2010. [Populus CEN/TFL1 regulates first onset of flowering, axillary meristem identity and dormancy release in Populus](#). *The Plant Journal* 62:674–688.
39. Feng, S., S.J. Cokus, X. Zhang, P.-Y. Chen, M. Bostick, M.G. Goll, J. Hetzel, J. Jain, S.H. Strauss, M.E. Halpern, C. Ukomad, K.C. Sadler, S. Pradhan, M. Pellegrini, and S.E. Jacobsen. 2010. [Conservation and divergence of methylation patterning in plants and animals](#). *Proc. Natl. Acad. Sci. USA* 107:8689-8694.
40. Zhang, H., D.E. Harry, C. Ma, C. Yuceer, C.-Y. Hsu, V. Vikram, O. Shevchenko, E. Etherington, and S.H. Strauss. 2010. [Precocious flowering in trees: The FLOWERING LOCUS T gene as a research and breeding tool in poplar](#). *J. Exp. Botany* 61:2549–2560.
41. Gou, J., S.H. Strauss, C.J. Tsai, F. Kai, Y. Chen, X. Jiang and V.B. Busov. 2010. [Gibberellins regulate lateral root formation in Populus through interactions with auxin and other hormones](#). *Plant Cell* 22:623-639.
42. Dharmawardhana, P., A.M. Brunner, and S.H. Strauss. 2010. [Genome-wide transcriptome analysis of the transition from primary to secondary stem development in Populus trichocarpa](#). *BMC Genomics*, 11:150.
43. Bao, Y. P. Dharmawardhana, T. C. Mockler, and S.H. Strauss. 2009. [Genome scale transcriptome analysis of shoot organogenesis in Populus](#). *BioMedCentral Plant Biology* 9:132.

44. Strauss, S.H., M. Schmitt, and R. Sedjo. 2009. [Forest scientist views of regulatory obstacles to research and development of transgenic forest biotechnology](#). *J. Forestry* 107(7):350-357.
45. Bao, Y., P. Dharmawardhana, R. Arias, M.B. Allen, C. Ma, and S.H. Strauss. 2009. [WUS and STM-based reporter genes for studying meristem development in poplar](#). *Plant Cell Reports* 28:947–962.
46. Slavov, G.T., S. Leonardi, J. Burczyk, W.T. Adams, S.H. Strauss, and S.P. DiFazio. 2009. [Extensive pollen flow in two ecologically contrasting populations of *Populus trichocarpa*](#). *Molecular Ecology* 18:357-373.
47. Li, J., A.M. Brunner, R. Meilan, and S.H. Strauss. 2008. [Stability of transgenes in trees: Expression of two reporter genes in poplar over three field seasons](#). *Tree Physiology* 29: 299 - 312.
48. Li, J., A.M. Brunner, R. Meilan, and S.H. Strauss. 2008. [Matrix attachment region elements have small and variable effects on transgene expression and stability in field-grown *Populus*](#). *Plant Biotechnol. J.* 6: 887-896.
49. Doty, S.L., C.A. James, A.L. Moore, A. Vajzovic, G.L. Singleton, C. Ma, Z. Khan, G. Xin, J.W. Kang, J.Y. Park, R. Meilan, S.H. Strauss, J. Wilkerson, F. Farin, and S.E. Strand. 2007. [Enhanced phytoremediation of volatile environmental pollutants with transgenic trees](#). *Proc. Natl. Acad. Sci. USA* 104:16816-16821.
50. Li, J., A.M. Brunner, O. Shevchenko, R. Meilan, C. Ma, J.S. Skinner, and S.H. Strauss. 2007. [Efficient and stable transgene suppression via RNAi in field-grown poplars](#). *Transgenic Res.* 17: 679-694.
51. Filichkin, S.A., S.P. DiFazio, A.M. Brunner, J. M. Davis, Z.K. Yang, U.C. Kalluri, R.S. Arias, E. Etherington, G.A. Tuskan and S.H. Strauss. 2007. [Efficiency of gene silencing in *Arabidopsis*: Direct inverted repeats versus transitive RNAi vectors](#). *Plant Biotech. J.* 5:615-626.
52. Li, J., R. Meilan, C. Ma, M. Barish and S.H. Strauss. 2007. [Stability of herbicide resistance over eight years of coppice in field-grown, genetically engineered poplars](#). *Western J. Appl. Forestry* 23(2):89-93.
53. Wei, H., R. Meilan, A.M. Brunner, J.S. Skinner, C. Ma, H.T. Gandhi, and S.H. Strauss. 2006. [Field trial detects incomplete *barstar* attenuation of vegetative cytotoxicity in *Populus* trees containing a poplar *LEAFY* promoter::*barnase* sterility transgene](#). *Molec. Breed.* 19:69-85.
54. Böhlenius, H., T. Huang, L. Charbonnel-Campaa, A.M. Brunner, S. Jansson, S.H. Strauss, and O. Nilsson. 2006. [The conserved *CO/FT* regulatory module controls timing of flowering and seasonal growth cessation in trees](#). *Science* 312:1040-1043.
55. Filichkin, S.A., Q. Wu, V.B. Busov, R. Meilan, C. Lanz-Garcia, A. Groover, B. Goldfarb, C. Ma, P. Dharmawardhana and S.H. Strauss. 2006. [Enhancer trapping in woody plants: Isolation of the *ET304* gene encoding a putative AT-hook motif transcription factor and characterization of the expression patterns conferred by its promoter in transgenic *Populus* and *Arabidopsis*](#). *Plant Science* 17:206-216.
56. Busov, V., R. Meilan, D.W. Pearce, S.B. Rood, C. Ma, T.J. Tschaplinski, and S.H. Strauss. 2006. [Transgenic modification of *gai* or *rq1* causes dwarfing and alters gibberellins, root growth, and metabolite profiles in *Populus*](#). *Planta* 24:288-299.

57. Filichkin, S.A., R. Meilan, V.B. Busov, C. Ma, A.M. Brunner and S.H. Strauss. 2006. [Alcohol-inducible gene expression in transgenic *Populus*](#). *Plant Cell Reports* 25:660-667.
58. Wei, H., R. Meilan, A. Brunner, J. Skinner, C. Ma, and S.H. Strauss. 2005. [Transgenic sterility in *Populus*: Expression properties of the poplar *PTLF*, *Agrobacterium NOS*, and two minimal 35S promoters in vegetative tissues](#). *Tree Physiology* 26:401-410.
59. Ma, C., S.H. Strauss, and R. Meilan. 2004. [Agrobacterium-mediated transformation of the genome-sequenced poplar clone, Nisqually-1](#). *Plant Molec. Biol. Reporter* 22:1-9.
60. Brunner, A.M., I.A. Yakovlev, and S.H. Strauss. 2004. [Validating internal controls for quantitative plant gene expression studies](#). *BioMed Central Plant Biology* 2004, 4:14.
61. Sterky, F., R.R. Bhalerao, P. Unneberg, B. Segerman, P. Nilsson, A.M. Brunner, L. Charbonnel-Campaa, J.J. Lindvall, K. Tandré, S.H. Strauss, B. Sundberg, P. Gustafsson, M. Uhlén, R.P. Bhalerao, O. Nilsson, G. Sandberg, J. Karlsson, J. Lundeberg, and S. Jansson. 2004. [A *Populus* EST resource for plant functional genomics](#). *Proc. Natl. Acad. Sci. USA* 101:13951-13956.
62. Andersson, A., J. Keskitalo, A. Sjödin, R. Bhalerao, F. Sterky, K. Wissel, K. Tandré, R. Moyle, Y. Ohmiya, R. Bhalerao, A. Brunner, P. Gustafsson, J. Karlsson, J. Lundeberg, O. Nilsson, G. Sandberg, S. Strauss, B. Sundberg, M. Uhlen, S. Jansson, P. Nilsson, and H. Aspeborg. 2004. [A transcriptional timetable of autumn senescence](#). *Genome Biol.* 5:R24.
63. Groover, A., J. Fontana, G. Dupper, C. Ma, R. Martienssen, S.H. Strauss, and R. Meilan. 2004. [Gene and enhancer trap tagging of vascular-expressed genes in poplar trees](#). *Plant Physiol.* 134:1742-1751.
64. Slavov, G. T., G. T. Howe, I. Yakovlev, K. J. Edwards, K. V. Krutovskii, G. A. Tuskan, J. E. Carlson, S. H. Strauss, and W. T. Adams. 2004. [Highly variable SSR markers in Douglas-fir: Mendelian inheritance and map locations](#). *Theoret. Appl. Genet.* 108:873-880.
65. Busov, V., R. Meilan, D.W. Pearce, C. Ma, S.B. Rood and S.H. Strauss. 2003. [Activation tagging of a dominant gibberellin catabolism gene \(*GA 2-oxidase*\) from poplar that regulates tree stature](#). *Plant Physiol.* 132:1283-1291.
66. Skinner, J.S., R. Meilan, C. Ma, and S.H. Strauss. 2003. [The *Populus* *PTD* promoter imparts floral-predominant expression and enables high levels of floral-organ ablation in *Populus*, *Nicotiana* and *Arabidopsis*](#). *Molec. Breed.* 12:119-132.
67. Meilan, R., Han, K.-H., Ma, C., DiFazio, S.P., Eaton, J.A., Hoiem, E., Stanton, B.J., Crockett, R.P., Taylor, M.L., James, R.R., Skinner, J.S., Jouanin, L., Pilate, G., and Strauss, S.H. 2002. [The *CP4* transgene provides high levels of tolerance to Roundup® herbicide in field-grown hybrid poplars](#). *Can. J. For. Res.* 32:967-976.
68. Meilan, R., D.J. Auerbach, C. Ma, S.P. DiFazio, and S.H. Strauss. 2001. [Stability of herbicide resistance and GUS expression in transgenic hybrid poplars \(*Populus* sp.\) during several years of field trials and vegetative propagation](#). *HortScience* 37(2): 1-4.
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OTHER PUBLICATIONS

Patent

1. Strauss, S.H., William Rottmann, Amy Brunner and Lorraine Sheppard. 2002. Floral homeotic genes for manipulation of flowering in poplar and other plant species. United States Patent No. 6,395,892 B1; May 28, 2002.

Books/Symposia

1. Strauss, S.H., and H.D. Bradshaw (Editors). 2004. *The Bioengineered Forest: Challenges to Science and Society*. Resources for the Future, Washington, D.C. 245 pp.
2. Strauss, S.H., and H.D. Bradshaw (Editors). 2001. *Proceedings of the First International Symposium on Ecological and Social Aspects of Transgenic Plantations*. College of Forestry, Oregon State University. 250 pp.
(<http://www.fsl.orst.edu/tgerc/iufro2001/eprocd.htm>)
3. Adams, W.T., S.H. Strauss, D.L. Copes, and A.R. Griffin (Editors). 1992. *Population Genetics of Forest Trees*. Kluwer, Netherlands. 420 pp.

Articles – 2000-present (60 total)

1. Ellis, B., S. Jansson, S.H. Strauss and G.A. Tuskan. 2010. [Why and how *Populus* became a "model tree"](#). In S. Jansson, R.P. Bhalerao and A.T. Groover (eds). *Genetics and Genomics of Populus*, Plant Genetics and Genomics: Crop and Models 8. Springer Science+Buiseness Media, LLC.
2. Brunner, A., J. Li, S. DiFazio, O. Shevchenko, R. Mohamed, B. Montgomery, A. Elias, K. Van Wormer, S.P. DiFazio, & S.H. Strauss. 2010. [Genetic containment of forest plantations](#). Pp 35-76 In: *Forests and Genetically Modified Trees*, IUFRO/Food and Agriculture Organization, Rome, Italy.
<http://www.fao.org/docrep/013/i1699e/i1699e00.htm>
3. Viswanath, V. and S.H. Strauss. 2010. [Modifying plant growth the cisgenic way](#). Information Systems for Biotechnology News Report, September 2010: 1-4.
4. Dharmawardhana, P., Brunner, A.M. and Strauss, S. 2010. [Poplar as a tree model for horticulture and beyond: A case study of genome-scale changes in gene expression during bud entry and release from dormancy](#). *Acta Hort. (ISHS)* 859:43-47.
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5. Murthy, G.S, Kumar, D., Strauss, S.H., Dalton, D. and Vinocur, J. 2010 [Extraction Analysis of poly-hydroxybutyrate \(PHB\) from hybrid poplar leaves](#). ASABE Paper No. 1009380. ASABE, St. Joseph, MI.
6. Harvey, J.W and S.H. Strauss. 2009. [Towards physiological sculpture of plants](#). *New Phytologist* 181: 8-12.
7. Etherington, E., H. Gandhi, V. Busov, R. Meilan, C. Ma, K. Kosola, and S.H. Strauss. 2007. [Dwarfism genes for modifying the stature of woody plants: A case study in poplar](#). *Landscape Plant News*. 18:3-6.
8. Strauss, S.H., K. VanWormer, P. Dharmawardhana, C. Poovaiah, A. Elias, O. Shevchenko, E. Etherington, and C. Ma. 2007. Tree Biosafety and Genomics Research Cooperative Annual Report. Oregon State University, Corvallis, OR.
9. Strauss, S.H., S. Filichkin, H. Gandhi, V. Canon, R. Arias, K. VanWormer, P. Dharmawardhana, B. Montgomery, C. Poovaiah, O. Shevchenko, and C. Ma. 2006. Tree Biosafety and Genomics Research Cooperative Annual Report. Forestry Research Laboratory, Oregon State University, Corvallis, OR. 28 pp.
10. Strauss, S.H., A. Brunner, R. Mohamed, S. Filichkin, H. Gandhi, E. Jaeger, R. Arias, J. Li and C. Ma. 2005. Tree Biosafety and Genomics Research Cooperative Annual Report. Forestry Research Laboratory, Oregon State University, Corvallis, OR. 40 pp.
11. Bradford, K., N. Gutterson, A. Van Deynze, W. Parrott, and S.H. Strauss. 2005. Response to letters on "[Regulating biotech crops sensibly: Lessons from plant breeding, biotechnology and genomics.](#)" *Nature Biotechnol.* 23:439-444.
12. Valenzuela, S., and S.H. Strauss. 2005. [Lost in the woods](#). *Nature Biotechnol.* 23:532-533.
13. Strauss, S.H., and F.M. Martin. 2004. [Poplar genomics comes of age](#). *New Phytol.* 164:1-4.
14. Strauss, S.H. 2004. [GE trees: The buzz is not from chain saws](#). *TimberWest* May/June:28.

15. Strauss, S.H. 2004. [Forest biotechnology – thriving despite controversy](#). Review of “Molecular Genetics and Breeding of Forest Trees” by S. Kumar and M. Fladung. *New Phytol.* 163:9-11.
16. Strauss, S.H., A. Brunner, S. Filichkin, S. Gandhi, E. Jaeger, J. Li and C. Ma. 2004. Tree Biosafety and Genomics Research Cooperative Annual Report. Forestry Research Laboratory, Oregon State University, Corvallis, OR. 37 pp.
17. Strauss, S.H., and S.P. DiFazio. 2004. [Hybrids abounding: Review of "Dangerous liaisons: When plants mate with their wild relatives"](#) by Norman Ellstrand. *Nature Biotechnol.* 22:29-30.
18. Chassy, B., C. Carter, M. McGloughlin, A. McHughen, W. Parrot, C. Preston, R. Roush, A. Shelton, and S.H. Strauss. 2003. [UK field trial evaluations answer the wrong questions](#). *Nature Biotechnol.* 21: 1429-1430.
19. Strauss, S.H., A. Brunner, V. Busov, C. Ma, and E. Jaeger. 2003. Tree Genetic Engineering Research Cooperative Annual Report. Forestry Research Laboratory, Oregon State University, Corvallis, OR. 39 pp.
20. Strauss, S.H. 2003. [Response: Risks of genetically engineered crops](#). *Science* 301:1846-1847.
21. Strauss, S.H. 2003. [Response: Democratization is more than higher prices](#). *Science* 301:167.
22. Ronald, P., and S.H. Strauss. 2003. [Moving the debate on genetically engineered crops forward](#). *American Society of Plant Biologists Newsletter*, May/June, 30(3).
23. Strauss, S.H. 2003. [Regulation of biotechnology as though gene function mattered](#). *BioScience* 53:453-454.
24. Strauss, S.H., A. Brunner, V. Busov and J. Carson. 2002. Tree Genetic Engineering Research Cooperative Annual Report. Forestry Research Laboratory, Oregon State University, Corvallis, OR. 40 pp.
25. DiFazio, S.P., G.T. Slavov, J. Burczyk, S. Leonardi, and S.H. Strauss. 2004. [Gene flow from tree plantations and implications for transgenic risk assessment](#). In C. Walter and M. Carson (eds.) *Plantation Forest Biotechnology for the 21st Century*. Research Signpost, Kerala, India, p. 405-422.
26. Brunner, A.M., Goldfarb, B., Busov, V.B., and Strauss, S.H. 2003. [Controlling maturation and flowering for forest tree domestication](#). In: *Transgenic Plants: Current Innovations and Future Trends*. C.N. Stewart, Jr. (Ed) Horizon Scientific Press Wymondham UK. Pp. 9-44.
27. Strauss, S.H. 2002. [A biological view of field testing: Familiarity and scale provide high levels of environmental safety during field trials of RMS transgenic plants](#). In *Proceedings of Workshop on “Criteria for Field Testing of Plants with Engineered Regulatory, Metabolic and Signaling Pathways,”* L.L. Wolfenbarger (Ed.), Information Systems for Biotechnology, Virginia Polytechnic and State University, Blacksburg, VA. Pp. 69-73. http://www.isb.vt.edu/isb_publications.cfm.
28. Strauss, S.H. 2002. [Trees, homologs, and poisons](#). *Science* 296:262 (letter to the editor).
29. Strauss, S.H. 2002. “Eco”terrorism against biotechnology research threatens knowledge and social options. *The Forestry Source* 7(3) March:10.

30. Slavov, G.T., S.P. DiFazio, and S.H. Strauss. 2002. [Gene flow in transgenic trees: From empirical estimates to transgenic risk assessment](#). In Proceedings of Consequences of Gene Flow, A Scientific Methods Workshop: Ecological and Agronomic Consequences of Gene Flow from Transgenic Crops to Wild Relatives. Ohio State University, Columbus, March 5-6, 2002. Pp. 94-114. <http://www.biosci.ohio-state.edu/~lspencer/Proceedings.pdf>
31. Meilan, R., A. Brunner, J. Skinner, and S.H. Strauss. 2001. [Modification of flowering in transgenic trees](#). In: Molecular Breeding of Woody Plants. Progress in Biotechnology Series. A. Komamine and N. Morohoshi, editors. Elsevier Science BV, Amsterdam. pp. 247-256.
32. Strauss, S.H., K. Raffa and P. List. 2000. [Ethics and transgenic plantations](#). *J. Forestry* 98(7):47-48.
33. Strauss, S.H., S. DiFazio, and R. Meilan. 2000. Challenges to commercial uses of transgenic trees in forest plantations: The case of poplars. Pp. 191-195 In Proceedings of the 6th International Symposium on Biosafety of Genetically Modified Organisms, C. Fairbairn, G. Scoles, and A. McHughen, Eds., University of Extension Press, University of Saskatchewan, Saskatoon, Canada.
34. Strauss, S., and R. Meilan. 2000. Tree Genetic Engineering Research Cooperative. *Western Forester* 45(2):14.
35. Meilan, R., Ma, C., Cheng, S., Eaton, J.A., Miller, L.K., Crockett, R.P., DiFazio, S.P., and Strauss, S.H. 2000. [High levels of Roundup® and leaf-beetle resistance in genetically engineered hybrid cottonwoods](#). In: K.A. Blatner, J.D. Johnson, and D.M. Baumgartner, eds., Hybrid Poplars in the Pacific Northwest: Culture, Commerce and Capability. Washington State University Cooperative Extension Bulletin MISC0272, Pullman, WA. pp. 29-38.

GRANTS – last 10 years (as project director except where indicated)

(total 63 total grants; over \$17 million in funding)

1. USDA - Biotechnology Risk Assessment Research, Genetic containment of plants using zinc-finger nucleases, \$400,000, 09/10 – 08/13 (Strauss PI, Tzfira and Thomson coPIs).
2. J. Frank Schmidt Family Charitable Foundation, Field performance of transgenic Sweetgum trees: Growth, coloration, gene expression, and flowering, \$10,000, 01/11 – 12/11 (Strauss and Martin, PIs).
3. Oregon BEST, Feasibility of biopolymer production in poplar (match funds for SunGrant of same name), \$15,750, 01/10 – 03/12.
4. American Society of Plant Biologists, Informing the public about the science of agricultural biotechnology and environment, \$27,000, 09/09 – 08/11.
5. USDA-ARS, Development of sterile nursery plants, \$143,342, 09/09 – 08/11.
6. Sun Grant, US Dept. Transportation, Feasibility of PHB production in poplar, \$157,000, 8/2009 – 7 / 2011.
7. USDA-DOE, Epigenomics of development in Populus, \$1.2 million, 9/2008-8/2011.
8. USDA Biotechnology Risk Assessment Grants Program, Accelerated testing of sterility genes in grafted poplar using the FT gene, \$370,000, 9/08 – 8/11.

9. Arborgen, Inducible flowering in poplar using the *FT* gene (match funds for CPRB grant of same name), \$50,000, 1/2008-12/2009.
10. Consortium for Plant Biotechnology, Inducible flowering in poplar using the *FT* gene, \$93,523, 2008-2009.
11. Resources for the Future/Mellon Foundation, Regulation of Tree Biotechnology: Implications for Research and Commercial Development, 10/07-9/09, \$92,000.
12. American Society of Plant Biologists Education Foundation, Presenting the Food for Thought Lecture Series via Web-Based Streaming Video, 9/06-8/08, \$10,450 (Strauss and Harry, PIs).
13. Department of Energy, Department of Energy, Poplar genome based research for carbon sequestration in terrestrial ecosystems, 8/05-7/08, \$1,148,452 (OSU portion), Genetic modification of gibberellic acid signaling to promote carbon sequestration in tree roots and stems (Strauss & Busov PIs, Kosola, Dharmawardana, Morrell, Kennedy, Kelley coPIs)
14. Department of Energy, Department of Energy, Poplar genome based research for carbon sequestration in terrestrial ecosystems, 8/05-7/08, \$684,100 (OSU portion), Genes for enhancing carbon sequestration in poplar (Flavell/Ceres Co. PI, Strauss coPI)
15. Forest Industries, 7/04-6/05, \$125,000, Tree Genomics and Biosafety Research Cooperative (Strauss and Brunner)
16. National Science Foundation Industry/University Cooperative Research Centers, 9/04-8/05, \$30,000, "OSU-Purdue Center for Tree Genetics," (Strauss and Brunner)
17. Arborgen and the Consortium for Plant Biotechnology Research, 3/05-2/07, \$70,632, "Modification of Gibberellin Metabolism to Enhance Productivity, Wood Quality and Biosafety" (Strauss and Busov, joint PIs)
18. Consortium for Plant Biotechnology Research, 9/05-8/07, \$80,000, "Activation tagging in the reference Nisqually-1 poplar genome." (Strauss and Busov, joint PIs)
19. USDA Biotechnology Risk Assessment Research, 9/04-8/08, \$360,000, "Field evaluation of dwarfing genes for biosafety of transgenic woody plants." (Busov & Strauss) (
20. USDA Plant Genome, 9/04-8/07, \$430,000, "Efficiency of activation tagging for functional gene discovery in *Populus*." (Busov, Strauss, Ganio & Gartner) (\$229,999 to OSU)
21. USDA Biotechnology Risk Assessment Research, 9/03-8/06, \$358,000, "Field tests of transgene confinement strategies in trees: Evaluation of ablation, gene suppression, and flowering onset genes in poplar." (Strauss & Brunner)
22. USDA-ARS, 9/03-8/06, \$225,000, "Developing Non-Invasive Nursery Crops," (Strauss & Brunner)
23. Department of Energy, Terrestrial Carbon Sequestration using the Poplar Genome, 5/03-4/06, \$1,180,026, "Genome-Enabled Discovery of Carbon Sequestration Genes in *Populus*," (Strauss & Brunner; coPIs on collaborative linked grants are G. Tuskan, Oak Ridge Nat. Lab., and J. Davis, U. Florida: total effort ~\$4.9 million).
24. College of Forestry Innovative Grants Competition, Oregon State University, 11/02-10/05, \$60,000, "Douglas-fir Genomics in Interdisciplinary Research in Forest Science." (Brunner, Howe, Bond, Meilan & Strauss)

25. J. Frank Schmidt Family Charitable Foundation, 10/02-9/04, \$16,000, "Development of fruitless tree varieties via biotechnology." (Strauss, Pellett, Aldwinckle, Meilan & Brunner)
26. National Science Foundation, 5/02-8/03, \$3,430, "Recruitment trip to Thailand for Tree Genetics I/UCRC Center." (Meilan & Strauss)
27. Consortium for Plant Biotechnology, 8/00-7/04, \$70,000, "Genetic engineering to maintain high biomass productivity in non-flowering transgenic trees." (Strauss, Brunner, Meilan & Skinner)
28. Consortium for Plant Biotechnology, 8/02-7/04, \$52,000, "Activation tagging of genes controlling tree development." (Strauss, Brunner & Meilan)
29. DOE, 1/02-12/02, \$50,000 (to OSU), "Accelerated domestication of *Populus*." (Bradshaw, Strauss, Tschaplinski, Wullschleger, and Tuskan)
30. DOE/Agenda 2020, 10/01-9/04, \$587,893, "Development and validation of sterility systems for trees." (Brunner, Meilan & Strauss)
31. Scottish Forestry Trust Foreign Study Grant, 1/01-4/04, \$9,000, "Risks and benefits of genetically modified trees for industrial plantations." (Strauss)
32. USDA IFAFS, 9/00-8/04, \$539,000, "Flowering control in transgenic trees: Stability and RNAi gene suppression." (Strauss, Meilan, Brunner & DiFazio)

INVITED PRESENTATIONS – last 10 years (201 total)

1. 2011. Transgenic forest trees: What a long strange trip its been. IUFRO International Conference on Tree Biotechnology, Porto Segundo, Brazil.
2. 2011. Epigenomics DNA methylation in the poplar genome. New Phytologist Symposium on Bioenergy Trees, Nancy, France.
3. 2011. Genome and developmental variation in DNA methylation in poplar. Department of Energy, Feedstock Genomics Contractors, Washington, DC.
4. 2011. Proposals for improved environmental assessment and regulation of new types of GM plants: An academic perspective. Expert Panel Meeting on Research to Support Risk Assessment of Genetically Modified Plants in the EU, Amsterdam, Netherlands.
5. 2011. Associations between genome-scale gene expression and DNA methylation during onset and release from vegetative dormancy in field-grown poplar. Plant Dormancy Workshop, 19th International Plant and Animal Genome Conference, San Diego, CA.
6. 2011. Genes for enhancement of transformation during organogenic regeneration of poplar, Advancement in Plant Transformation Technology Workshop, 19th International Plant and Animal Genome Conference, San Diego, CA.
7. 2010. Genetically modified crops: Social and scientific potential and obstacles. International Forum for Adaptability Sciences II: Technologies for a Sustainable Society. University of Tohoku, Sendai, Japan.
8. 2010. Genetically engineered trees: A powerful tool gathering dust? Society of American Foresters, Portland, Oregon Chapter.
9. 2010. Transgenic forest trees: Accomplishments, potentials, and realities. International Biotechnology Exposition, Rimini, Italy (keynote).

10. 2010. Forest Biotechnology and Society: What have we accomplished and where are we going? International Poplar Symposium, Orvieto, Italy (keynote).
11. 2010. Epigenomics of development in *Populus*. ForestTrac Workshop, European Union, Madrid, Spain.
12. 2010. Field trials of GM trees – an essential research and development tool. FuncFibre International Meeting on Tree Biorefineries and Biotechnology, Örnköldsvik, Sweden.
13. 2010. Environmental Regulation of Tree Biotechnology for Wood and Bioenergy: Effect of USDA and EPA Regulations on Research, Breeding, and Commercial Products. Resources for the Future, Washington, DC.
14. 2010. Transgenic modification of forest trees: Forest scientist views of how federal regulations affect research and commercial development. Wood Science and Engineering Seminar Series, Oregon State University, Corvallis, OR.
15. 2010. Epigenome of *Populus trichocarpa*: DNA methylation in dormant vegetative buds Plant and Animal Genome Conference, San Diego, CA.
16. 2009. Scientist views of regulatory constraints on transgenic forest biotechnology. Forest Health Initiative, Vectors Workshop, Institute of Forest Biotechnology, Raleigh, NC.
17. 2009. Transgenic modification of gibberellic acid function to promote the productivity and value of woody biomass crops. IUFRO Tree Biotechnology, Whistler, British Columbia.
18. 2009. Cisgenic and intragenic approaches to genetic modification of growth and form in poplar. Society for In Vitro Biology, Charleston, SC.
19. 2009. Growth and form modification in poplar via transgenic modification of gibberellic acid signaling. Poplar Symposium, Goettingen, Germany.
20. 2009. Cisgenic and intragenic approaches to genetic modification of growth and form in poplar. Society for In Vitro Biology, Charleston, SC.
21. 2009. Growth and form modification in poplar via transgenic modification of gibberellic acid signaling. Poplar Symposium, Goettingen, Germany.
22. 2009. Field trial to evaluate mutagenesis in activation tagged poplars. Consortium for Plant Biotechnology Research Annual Meeting, Washington, DC
23. 2009. Steven in wonderland: Views of the regulatory constraints and scientific potential of forest biotechnology. Institute of Forest Biotechnology Annual Board Meeting, Raleigh-Durham, North Carolina.
24. 2009. The need for a complete rethinking of the proposed gene flow guidelines: Perspectives from a tree biotechnologist. Scientific Advisory Panel on EPA Proposed Test Guidelines for Plant-Incorporated Protectants (OPPTS 890.4300), Arlington, Virginia.
25. 2009. Intragenic improvement of growth rate in poplar. Workshop on Intragenics, USDA ARS Research Center, Berkeley/Albany, California.
26. 2008. Cisgenics as a tool for generalized crop improvement? Gates Foundation, Seattle, Washington.
27. 2008. Public sector research on genetically modified trees. Public Research and Regulation Initiative, COP 9: Conference of the Parties of the United Nations Convention on Biological Diversity, Bonn, Germany.

28. 2008. Impacts of regulation on research and development of genetically modified woody biofuels crops. Iowa State University BIGMAP (Biosafety Institute) Annual Meeting.
29. 2008. Global transcript profiling in *Populus trichocarpa* stems during the transition from elongation to secondary growth. Plant and Animal Genome Conference, Forest Trees Workshop, San Diego, CA.
30. 2008. Stability of transgene expression and RNAi suppression in field grown poplars. Plant and Animal Genome Conference, Forest Trees Workshop, San Diego, CA.
31. 2008. Public sector research on genetically modified trees in the northern hemisphere. Public Research and Regulation Initiative, Thirteenth Meeting of the Subsidiary Body on Scientific, Technical, and Technological Advice, United Nations Convention on Biological Diversity, Rome, Italy.
32. 2007. Understanding Biotechnology. Oregon Seed Growers League Annual Conference, Salem, Oregon.
33. 2007. Transgenic domestication of forest trees: Collision of genomics and society. Department of Botany and Plant Pathology, Oregon State University.
34. 2007. Why the regulatory system for transgenic specialty crops fails spectacularly, and is getting worse. Workshop on Emerging Challenges for Specialty (Transgenic) Crops, Pew Initiative for Food and Biotechnology and the USDA Animal and Plant Health Inspection Service, Washington, DC.
35. 2006. Value and obstacles in use of tree genetic engineering for short rotation woody crops. Seventh Biannual Meeting of the SRWC Production Systems Working Group, IUFRO-Society of American Foresters, Pasco, WA.
36. 2006. Gibberellic acid genes for physiological sculpture of trees. Center for Genome Research and Biocomputing at OSU annual retreat, Eagle Crest, Redmond, OR.
37. 2006. Genes useful for physiological sculpture of trees: Gibberellic acid signaling genes in poplar (*Populus*). American Society of Plant Biologists/Canadian Society of Plant Physiologists Joint Annual Meeting, Boston, MA.
38. 2006. Genetic containment of poplar plantations. International Poplar Symposium IV, Nanjing, China.
39. 2006. Genetic engineering approaches to breeding sterility and reduced invasiveness. Second USDA-ARS floral and nursery crops workshop, Portland, OR.
40. 2006. Ecological science vs. popular environmentalism: A view from the world of crop biotechnology. Department of Fisheries and Wildlife, Oregon State University.
41. 2006. Development and validation of sterility systems for trees. Department of Energy, Agenda 2020 Conference, Atlanta, GA.
42. 2006. Genetic engineering of sterility in trees. Arborgen Company, Sumerville, SC.
43. 2006. Ten years of transgenic poplar research on genetic containment. Agriculture Canada Oakanagan Research Center, Sumerland, British Columbia, Canada.
44. 2006. Genetic containment of forest plantations. In Growing Trees and Stemming Risks: Symposium on Ecological Impacts Associated with the Products and Practices of Forest Biotechnology. Institute of Forest Biotechnology, Vancouver, British Columbia, Canada.

45. 2006. GMOs (genetic modified organisms) and forest certification. Department of Wood Science and Engineering, Oregon State University, Corvallis, OR.
46. 2006. Tree domestication: Modifying tree architecture, chemistry, and flowering via gibberellin signaling genes. Department of Forest Science, Oregon State University, Corvallis, OR.
47. 2006. The GMO debate: Dissonance of science, environmentalism, and society. University of Colorado at Boulder, Ecology/Evolution Colloquium, CO.
48. 2005. Poplars for biotechnology and genomics research: Ceres Company, Los Angeles, CA.
49. 2005. Domestication of poplar for bioenergy: Can genomics and transformation change the rules? Department of Energy/British Petroleum Joint Workshop on Plant Genomics, Washington, DC.
50. 2005. Environmental benefits and risks of genetically modified trees. Austrian College of Agriculture-US Land Grant College Consortium, Vienna.
51. 2005. Activation tagging of major genes for tree development. Consortium for Plant Biotechnology Annual Meeting, Washington, DC.
52. 2005. Activation tagging for functional gene discovery in poplar. DOE/Batelle Pacific Northwest Laboratories, Richland, WA.
53. 2004. Genetically modified organisms, trees, and public policy: Cutting through the chaos. University of Washington, Seattle.
54. 2004. Proposal to establish a public biotech crop trait program (BCTP) to assist in regulatory approval for "minor" biotech crops. USDA Workshop on Public Research and Regulatory Review of Small-Market Biotechnology-Derived Crops, Washington, DC.
55. 2004. Beyond myths and miracles: Biological potentials and social obstacles to use of gene modified trees in plantation forestry. University of Alberta, Edmonton, Canada.
56. 2004. Genetic engineering and natural resources: Potentials, problems, future? OSU Alumni Academy for Lifelong Learning, Corvallis, Oregon.
57. 2004. Genetic engineering as a conservation tool: The case for tree biotechnology. Biotechnology & Biodiversity Symposium, Society for Conservation Biology Annual Meeting, Columbia University, New York City.
58. 2004. Activation tagging for functional gene discovery in trees. Department of Environmental Science, University of Parma, Italy.
59. 2004. Managing gene flow in transgenic and exotic poplars. Brussolera-Branca Foundation Workshop on Biodiversity and Management of Poplars, Milan, Italy.
60. 2004. Modification of flowering in transgenic trees. Forestry Department, Sabah, Malaysia.
61. 2004. Ten lessons from 15 years of transgenic poplar research. Department of Biology, Bandung Institute of Technology, Indonesia.
62. 2004. Genome exploration via activation tagging. Department of Agricultural Biotechnology, Kasart University, Thailand.
63. 2004. Ten lessons from 15 years of transgenic poplar research. Global Forum on Biotechnology, Concepcion, Chile.
64. 2004. Functional gene discovery in trees via activation tagging. Department of Horticulture, Oregon State University, Corvallis.

65. 2004. Transforming trees for the 21st century: Genome exploration and domestication of forest trees. University of Georgia, College of Forest Resources, Athens.
66. 2003. Poplar genomics research and state of commercialization. Poplar Genomics Workshop, Genome Canada, Toronto.
67. 2003. Activation tagging and dwarfism in trees: Breakthrough ideas or fringe notions? Laval University and Canadian Forest Service, Quebec City, Canada.
68. 2003. Scientific considerations for regulation of GE trees. Canadian Food Inspection Agency/Canadian Forest Service Workshop on Regulatory Challenges in Forest Biotechnology, XII World Forestry Congress, Quebec City, Canada.
69. 2003. Goals, benefits and safety of transgenic forest trees: The state of the science. USDA APHIS Public Meeting on Tree Biotechnology Regulations, Washington, DC.
70. 2003. Technical and environmental promises and pitfalls of crop biotechnology. Foundation for Research on Economics and the Environment, Judges/Law Professors Seminar: Can technology spare the earth?, Bozeman, MT.
71. 2003. A panoply of social problems strangle crop biotechnology. Foundation for Research on Economics and the Environment, Judges/Law Professors Seminar: Can technology spare the earth?, Bozeman, MT.
72. 2003. Grant writing strategies for the USDA Biotechnology Risk Assessment Grants Program. Workshop on Future Directions and Research Priorities for the USDA BRARGP, Washington, DC.
73. 2003. Gene flow control in trees: Technology development in transgenic poplars. Society for In Vitro Biology Congress, Portland, Oregon.
http://www.sivb.org/inva_39_s03.1-59.pdf
74. 2003. "Eco"sabotage against tree breeding and plant biotechnology. Testimony before Oregon State Senate Agriculture and Natural Resources Committee on Senate Bill 385 (providing expanded powers to prosecute ecosabotage crimes), March 14.
75. 2003. Context, rationale, precaution, and truth in the wars over crop biotechnology. Eugene Environmental Law Conference, Eugene, OR.
76. 2003. Functional genomics of trees: Leveraging the poplar genome sequence. Arborgen/MeadWestvaco Companies, Summerville, SC.
77. 2003. Horticultural tree biotechnology and flowering modification. Institute of Forest Biotechnology/North Carolina Biotechnology Center Workshop on Modification of Flowering in Urban Trees, Research Triangle Park, NC.
78. 2003. Gene flow in transgenic trees: Analysis of gene dispersal and landscape modeling of domestication genes in hybrid poplars. International conference on Introgression from genetically modified plants into wild relatives and its consequences. University of Amsterdam, Netherlands.
79. 2002. The poplar genome. Cold Spring Harbor Symposium on Comparative Plant Genomics, New York.
80. 2002. Molecular domestication of tree crops: Genomic power, ecological questions, social controversies. Reed College, Department of Biology, Portland, OR.
81. 2002. Trees and bioconfinement of transgenes: Context, tools, and regulation in the age of genomics. National Research Council Committee on Bioconfinement of Transgenic Plants. Washington, DC.

82. 2002. Agricultural and forest biotechnology: Biological, ecological and social issues. Foundation for Research on Economics and the Environment, Judges/Law Professors Seminar: Globalization and the environment, Bozeman, MT.
83. 2002. Agricultural and forest biotechnology: Biological, ecological and social issues. Foundation for Research on Economics and the Environment, Federal Judges Seminar: The ecology, economics and ethics of biotechnology, East Yellowstone, MT.
84. 2002. Forest biotechnology futures: Ethical views, social licenses, and technology paths. Weyerhaeuser Technology Center, Tacoma, WA.
85. 2002. A biological view of field testing. Information Systems for Biotechnology/USDA APHIS Workshop on Criteria for Field Testing of Plants with Engineered Regulatory, Metabolic and Signaling Pathways, Washington, D.C.
86. 2002. Tree biotechnology: A powerful means for increasing pulp yield and pulping efficiency? International Pulp Bleaching Conference, TAPPI (Technical Assn of the Pulp and Paper Industry), Portland, Oregon.
87. 2002. Application of biotechnology to the study of trees and forests. Forest Biology Symposium, University of Victoria, B.C., Canada (keynote speaker).
88. 2002. Genetic engineering as a tool for applied tree breeding. Biology Colloquium, Oregon State University.
89. 2002. University-industry collaborative research in forestry: The case of transgenic poplar in the Pacific Northwest. University & Industry Consortium, Portland, Oregon.
90. 2002. Genetic engineering and intensive forestry: Technologies and contexts. William H. Main Distinguished Visitor Program, Department of Environmental Science, Policy, and Management, University of California, Berkeley.
91. 2002. The precautionary principle and genetically engineered crops. Panelist for biodiversity discussion group, Oregon State University.
92. 2002. Gene flow in forest trees: From empirical estimates to transgenic risk assessment. National Workshop on Gene Flow from Crops to Wild Relatives, Ohio State University.
93. 2002. Genetic engineering and forest certification. Annual Meeting of the Inland Empire Tree Improvement Cooperative, Coeur d'Alene, Idaho.
94. 2002. Genetic engineering and forest certification. University of California at Berkeley, William Main Distinguished Visitor, College of Natural Resources.
95. 2002. Biotechnology and trees: an enigma of sustainable forestry. Ideas Matter Public Lecture Series, Dept. of Philosophy, OSU.
96. Meilan, R., Skinner, J.S., Brunner, A.M., DiFazio, S.P., Leonardi, S., and Transgenic Dispersal and Control of Flowering in Poplars. Congress on In Vitro Biology, St. Louis, MO, June 2001.
97. 2001. Ecoterrorism and biotechnology: the feeling, the context, and the future. Mary's Peak Chapter, Society of American Foresters.
98. 2001. Genetic engineering and sustainable forestry: technology, context and terrorism. Yale Forest Forum, Yale University School of Forestry & Environmental Studies.
99. 2001. Genetically modified trees: their place, their benefits, their risks, and their myths. Western Forest Genetics Association Annual Meeting, Davis, CA.

100. 2001. Gene flow and control of flowering in poplars in the Pacific Northwestern United States: Implications for use of GM plantations. Swedish Agricultural University, Uppsala, Sweden.
101. 2001. Gene flow and control of flowering in poplars in the Pacific Northwestern United States: Implications for use of GM plantations. Long Ashton Research Station, Bristol, UK.
102. 2001. Certification of genetically modified forest plantations. Scottish Forestry Commission, Edinburgh, Scotland, UK.
103. 2001. Gene flow in wild and planted poplars in the Pacific Northwestern United States: Implications for use of GM plantations. Department of Natural Resources, University of Edinburgh, Scotland, UK.
104. 2001. Gene flow and control of flowering in poplars in the Pacific Northwestern United States: Implications for use of GM plantations. Scottish Crops Research Institute, Dundee, Scotland, UK.
105. 2001. Gene flow in wild and planted poplars in the Pacific Northwestern United States: Implications for use of GM plantations. Department of Forest Resources, University of Aberdeen, Scotland, UK.
106. 2001. Gene flow and control of flowering in poplars in the Pacific Northwestern United States: Implications for use of GM plantations. INRA Laboratory of Forest Microbiology, Nancy, France.
107. 2001. Gene flow and control of flowering in poplars: Implications for use of genetically modified plantations. INRA Laboratory of Cellular Biology, Versailles, France.
108. 2001. Gene flow and control of flowering in poplars in the Pacific Northwestern United States: Implications for use of GM plantations. INRA Laboratory of Forest Biology, Orleans, France.
109. 2001. Gene dispersal from wild stands and plantations of cottonwoods in the Pacific Northwest United States. Oxford University Department of Plant Sciences, Oxford, UK.
110. 2000. Flowering control in transgenic trees. International Wood Biotechnology Symposium, Narita, Japan.
111. 2000. Benefits and ecological safety of genetically modified plants: science and politics. Lewis and Clark College Symposium on Environmental Affairs, Session on Genetically Modified Organisms, Portland, OR.
112. 2000. Genetically modified poplars: state-of-the-art and perspectives on the public controversy. International Poplar Symposium, Vancouver, WA.
113. 2000. Challenges to commercial uses of transgenic trees in forest plantations: The case of poplars. International Symposium on Biosafety of Transgenic Crops, Saskatoon, Canada.
114. 2000. Floral regulatory genes as tools for control of reproduction in poplars. International Society for Plant Molecular Biology, Quebec, Canada.
115. 2000. Forest biotechnology: Benefits, challenges, and concerns of transgenic plantations. National Research Council, Standing Committee on Biotechnology, Food and Fiber Production, and the Environment. Washington, D.C.
116. 2000. Public forum on genetically engineered crops. Dept. of Biology, Oregon State University, Corvallis, OR. (panelist)

117. 2000. Transgenic crops: what are the facts, what are the questions. Public forum, Unitarian-Universalist Fellowship, Corvallis, OR. (panelist)
118. 2000. Transgenic poplars and the debate about genetically engineered crops: research and communication challenges. Dept. of Botany and Plant Pathology, Oregon State University, Corvallis, OR.
119. 2000. Perspectives on the science, business, and ethics behind the controversy of over biotech plants. Department of Forest Science, Oregon State University, Corvallis, OR.

ADMINISTRATIVE SERVICE – OREGON STATE UNIVERSITY

1. Member, OSU Conflict of Interest Compliance Committee, Research Office, 2009-2011
2. Pack Essay evaluator, College of Forestry, 2009-2011
3. Member, Strachan Chair Search Committee, Dept of Forest Engineering, College of Forestry, 2008
4. Acting Chair, Academic Support Manager-College Forests Search Committee, College of Forestry, 2005
5. Member, Richardson Hall Art Review Committee, 2003-2004
6. Chair, Post-Tenure Review Committee for Professor Steve Radosevich, Forest Science
7. Developed Department of Forest Science policy on Emeritus Faculty responsibilities and resources, 2003
8. Developed and worked with Forest Science Department faculty senator (Filip) to achieve overwhelming passage of OSU Faculty Senate "Resolution against terrorism directed toward scientific research," Winter 2002
9. Organizing Committee, OSU Biology Colloquium, 2002
10. Chair, Promotion and Tenure Committee, Forest Science, 1998-2005
11. Member, OSU Recombinant DNA Biosafety Committee, 1999-2006
12. Co-chair, Search Committee, Dept of Forest Science Forest Genetics Faculty Position, 2000-2001
13. Department Head, Department of Forest Science, Search Committee, 1999-2000
14. Dean, College of Forestry, Search Committee, 1999-2000
15. Member, Scientific Advisory Committee, Center for Gene Research and Biotechnology, OSU, 1999-2001
16. Member, Richardson Hall Art Committee, College of Forestry, 1999
17. Led development of policy on conversion of fixed-term professorial faculty to tenure-track, Forest Science, 2000
18. Member, Committee drafting position description for "Biodiversity/Landscape Ecology" position, Forest Science, 2000
19. Led revisions to Forest Science P&T guidelines, 1999-2000
20. Faculty Staffing Committee, Forest Science, 2000
21. Led revision of policy on courtesy and adjunct faculty, Forest Science, 1999
22. Judge, OSU graduate student poster competition, OSU, 1998
23. Led development of teaching competency requirements, Forest Science, 1998
24. Search Committee, Vice Provost for Research, OSU, 1997
25. Center for Gene Research and Biotechnology, Genomics services subcommittee, 1997

26. Intellectual property services survey for Technology Transfer Office, OSU, 1996
27. Graduate student recognition committee, Forest Science, 1996
28. Worked Warren Kronstad, Mike Burke, Steve Knapp, and others to develop curriculum for Plant Breeding and Genetics options within revised Genetics Program, 1993-95
29. Played major role in extensive revision of Department Graduate Programs and Curriculum Book, Forest Science, in 1991 and 1993
30. Played major role in evaluating how to improve "rigor" in Forest Science Department courses (1992-93), including working with Forestry Media Center to design and administer student surveys, developed recommendations for course changes, developed addendum to course evaluation survey forms.
31. Chair, Curriculum Committee, Forest Science, 1989-1996
32. Curriculum Committee, Forest Science, 1987-90
33. Space and Facilities Subcommittee, Forest Science, 1989-90
34. Growth Chamber Facilities Subcommittee, Forest Science, 1987-88
35. Social Activities Committee, Forest Science, 1985-87 (Chair)
36. Extension & Continuing Education Committee, Forest Science, 1985-86
37. Research Committee, Forest Science, 1985-86
38. Management Committee, Forest Science, 1985-90
39. Chair, Executive Committee, Genetics Program, OSU, 1994
40. Curriculum Committee, Genetics Program, OSU, 1994-1995
41. Admissions Committee, Molecular & Cellular Biology, 1993-1994
42. Technology Transfer Committee, OSU, 1989-90
43. Scientific Advisory Board, Center for Gene Research & Biotechnology, OSU, 1985-90

STUDENTS DIRECTED (MAJOR PROFESSOR)

Current positions given for graduate students where known

Undergraduate

1. Ree, J. 2011. Improved transformation with the GA20-oxidase and EBB1 gene in transgenic poplar. BioResources Research thesis.
2. Charlton, J. 2006. Changes in poplar root:shoot allocation due to dwarfism genes. Undergraduate thesis, Dept of Horticulture, OSU.
3. McDonough, A. 2006. Biological considerations for a new approach to regulating genetically modified crops in the United States. Honors College Thesis.
4. Chapin, C. 1998. The effect of matrix attachment regions flanking gene constructs on transformant gene expression in two poplar clones. BioResources Research and University Honors College Thesis Project.

Master of Science

1. Aagard, J. E. 1997. Genetic diversity and differentiation in Douglas-fir from RAPD markers of nuclear and mitochondrial origin. Department of Forest Science. Postdoctoral scientist, University of Washington.

2. Elias, A. 2009. Growth and morphology of transgenic poplars with transgenes from the Ceres Arabidopsis genomics program. PhD student, Purdue.
3. Bae, H. 1992. RFLP variation in the laminated-root-rot fungal pathogen of conifers, *Phellinus weirii*. Department of Forest Science. Research Scientist, Korea.
4. Bao, Y. 2008. Microarray analysis of RNA expression and meristem reporter gene development during *in vitro* regeneration in poplar. Genetics Program. Laboratory Manager, Cold Spring Harbor Laboratory, NY.
5. Corcoran, J. 1993. Non-thesis Masters. Genetics Program. Lawyer.
6. Dye, S. Structure and expression of the *Populus* homolog to the *TERMINAL FLOWER* gene. Department of Forest Science. Non-thesis. Mother of large family.
7. Krupkin, A.B. 1992. Chloroplast DNA phylogeny of hard pines (Subgenus *Pinus*): inference from site mutations and multiple small inversions. Department of Forest Science. Research technician, Oregon.
8. Mohamed, R. 1999. Effect of the *bO* gene on disease resistance in transgenic hybrid cottonwoods. Department of Forest Science. Professor, Agricultural University, Malaysia.
9. Tsai, C.-H. 1989. Dispersed repetitive sequences in the chloroplast genome of Douglas-fir. Department of Forest Science. Professor, Taiwan.
10. Han, K. 2009. Evaluation of promoters and genome insertion for modification of gibberellic acid metabolism in poplars. Genetics Program. PhD student, Oregon State University.
11. Viswanath, Venkatesh. Effects of GA transgenes on growth rate, phenology, and cold hardiness of poplar. (expected 2011)
12. Wei, H. Molecular buffering of cytoxin leakage in transgenic sterile poplars. Genetics Program. (winter 2004). Postdoctoral researcher, University of Washington.
13. Wu, J. 1998. Mitochondrial and nuclear DNA diversity in the California Closed Cone Pines (*Pinus attenuata*, *muricata*, and *radiata*). Researcher, Duke University.
14. Zhu, Julia. Effects of transgenic demethylation on poplar development and gene expression. Forest Ecosystems and Society. (expected 2011)

Doctorate

1. Brunner, A. 1998. Isolation of *Populus trichocarpa* homologous to the floral homeotic gene *AGAMOUS*. Department of Forest Science. Professor, Virginia Technological University.
2. DiFazio, Stephen. 2002. Analysis and modeling of gene dispersal from plantations of transgenic hybrid cottonwoods. Department of Forest Science. Professor, West Virginia University.
3. Goldfarb, B. 1990. Parameters affecting genetic transformation of Douglas-fir via microprojectiles. (Co-directed with J. Zaerr.). Department of Forest Science. Department Head, North Carolina State University.
4. Hipkins, V.D. 1993. Repeated sequences associated with inversions and length mutations in the chloroplast genomes of *Pinus* and *Pseudotsuga*. Genetics Program. Research Geneticist, US Forest Service.
5. Hong, Y.-P. 1991. Chloroplast DNA diversity and phylogeny in the Californian closed-cone pines (Subsect. *Oocarpae*). Department of Forest Science. Professor, Korea.

6. Howe, G.T. 1991. Transformation and heterologous gene expression in hybrid poplar. Genetics Program. Professor, Oregon State University.
7. Li, Jingyi. 2006. Stability of transgene expression and RNAi-induced silencing under vegetative propagation and environmental stress in poplar. Department of Forest Science (Co-advised with A. Brunner). Research Group Leader, Biotechnology Company.
8. Mohamed, Rozi. 2006. Molecular studies of poplar genes related to disease resistance and meristem development. Department of Forest Science (Co-advised with A. Brunner). Professor, Agricultural University, Malaysia
9. Sheppard, L. 1997. *PTD*, a floral homeotic gene from *Populus trichocarpa* with homology to transcription factors. Genetics Program. Technical Editor.
10. Slavov, Gancho. Development of microsattelite marker for analysis of pollen contamination in Douglas-fir seed orchards. (co-advised with W. Thomas Adams and G. Howe). Department of Forest Science. Research Scientist, Wales Research Institute.

POSTODCTORAL SCIENTISTS ADVISED

Current positions given where known

1. An, Xinmin. February 2007-July 2007. Visiting Scientist from Beijing Forestry University. Genes for floral sterility in poplar. Professor, China.
2. Arias, Rene. December 2005-June 2007. Genes promoting regeneration of transgenic tissues. Researcher, USDA.
3. Bao, Manzhu. October 2002-January 2003. Visiting scientist from Huazhong Agricultural University, China. Genetic engineering of flowering in sweetgum. Professor, China.
4. Boes, Teresa. 1990-1992. Development of floral primordia in black cottonwood (*Populus trichocarpa*). Unknown.
5. Bousquet, Jean. 1990-1991. Rates of evolution in the chloroplast gene *rbcL*. Professor, Laval University.
6. Brunner, Amy. 1998-2005. Dominant negative mutations of floral homeotic genes for engineering of sterility. Professor, Virginia Technological University.
7. Busov, Victor. 2002-2006. Activation tagging and dwarfism in poplar. Professor, Michigan Technological University.
8. Carroll, Kirstin Arthur. 2004-2006. Outreach in Resource Biotechnology Program Coordinator. Lecturer, Oregon State University.
9. Dalton, David (sabbatical from Reed College). 2008-2009. Production of polyhydroxy butyrate in transgenic poplar. Professor, Reed College.
10. Dharmawardhana, P. September 2005-present. Microarray analysis of poplar gene expression. Research Scientist, Oregon State University.
11. Filichkin, Sergei. September 2004-present. Functional genomics tools for transgenic poplars. Research Scientist, Oregon State University.
12. Gahndi, Sonali. February 2004-April 2005. Genomic approaches to genetic engineering for carbon sequestration in poplar. Researcher, Syngenta.
13. Harry, David. 2006-2007. Outreach in Biotechnology, Associate Director. Research Professor and Genetic Consultant.

14. Han, Kyung-Hwan. 1994-1996. Genetic transformation of poplars via *Agrobacterium*. Professor, Michigan State University.
15. James, Rosalind. 1994-1997. Ecological genetics of resistance to BT transgenes in the cottonwood leaf beetle. Research Scientists, USDA ARS.
16. Krutovskii, Konstantin. 1994-2001. Genome mapping and QTL analysis of adaptive traits in Douglas-fir and cottonwood leaf beetle. Professor, Texas A & M.
17. Meilan, Richard. 1995-2003. Genetic engineering of sterility and precocious flowering in poplars. Professor, Purdue.
18. Ranik, Martin. 2010-present. Floral transcriptomics of eucalypts.
19. Rottmann, William. 1990-1995. Structure and expression of the poplar homolog of the floral homeotic gene *LEAFY*. Research Scientist, Arborgen Co.
20. Skinner, Jeffrey. 1997-2001. Recombinant DNA manipulations of poplar floral homeotic genes for induction of floral sterility. Research Scientist, Willamette Valley Seed Company.
21. Southerton, Simon. Nov/Dec 2000. Genetic engineering of flowering in eucalypts. Research Scientist, CSIRO, Australia.
22. Tsumura, Yoshiko. 1994 (2 months). Visiting Scientist, Japanese Forestry and Forest Products Research Institute, Tsukuba, Japan. Inter-simple-sequence-repeat DNA markers in conifers. Research Scientist, Japan.
23. Vining, K. 2009-present. Epigenomics of development in *Populus*.
24. Yakolev, Igor. 2001-2002. Fullbright Scholar from Russia. Floral gene expression during maturation in poplar. Research Scientist, Norwegian Research Institute.
25. Yang, Y. 1993-94. *In vitro* propagation and transformation of triploid cottonwoods. Professor, Korea.