

## ABBREVIATED CV

### **STEVEN H. STRAUSS**

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22 October 2009

<http://www.forestry.oregonstate.edu/coops/tbgrc/Staff/strauss/index.htm>  
<http://www.forestry.oregonstate.edu/coops/tbgrc/Staff/strauss/publications.htm>  
<http://www.forestry.oregonstate.edu/cof/fs/people/faculty/strauss.php>  
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<http://www.forestry.oregonstate.edu/coops/tbgrc/>

## **PROFESSIONAL EXPERIENCE**

- 7/09-present **Distinguished Professor**, Oregon State University  
11/04-present **Director**, Outreach in Resource Biotechnology, Oregon State University  
7/95-present **Professor**, Department of Forest Science, and Molecular and Cellular Biology and Genetics Programs, OSU  
1/01-4/01 **Visiting Senior Fellow**, Linacre College, Oxford University, UK  
**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**, College of Forestry, OSU  
7/99-6/04 **Director, National Science Foundation Center for Tree Genetics** (Industry/University Cooperative Research Centers Program)  
6/93-8/93 **Visiting Scientist**, INRA Divisions of Cellular Biology, Versailles & Forestry Research, Orleans, France  
9/91-6/92 **Visiting Professor**, College of Forestry, Australian National University, Canberra, Australia  
**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

## **EDUCATION**

- Ph.D. 1985 **University of California at Berkeley**, Department of Forestry and Resource Management (Genetics within Wildland Resource Science)  
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)

## **HONORS AND PROFESSIONAL ACTIVITIES**

### Examples of National/International Scientific Recognition

- ◆ Peer review publications: 110. Other articles: 55. Edited books: 3. Invited lectures: 178.
- ◆ Obtained grants from NSF, DOE, USDA, NIH, EPA, forest industries, and other sources totaling 16.1 million dollars.
- ◆ 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).
- ◆ Chair and organizer of New Phytologist Symposium on “Physiological Sculpture of Plants,” Mt. Hood, Oregon, September 2008.  
<http://www.newphytologist.org/physiological/default.htm>
- ◆ Scientific Advisory Committee, Genome BC Applied Genomics Innovation Program, “Optimized *Populus* feedstocks and novel enzyme systems for a British Columbia bioenergy sector,” 2008-2010
- ◆ Scientific Oversight Committee, Forest Health Initiative, Institute of Forest Biotechnology, NC, 2009-2011.
- ◆ 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, 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

#### Leadership in Biotechnology Regulation and Ecological Assessment

- ◆ 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-present (15 high school students mentored)
- ◆ 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

#### Grant review panels

##### Scientific Review Panels

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

### **EXAMPLES OF RECENT REFEREED PUBLICATIONS**

#### Review/analysis

1. 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.
2. Yuceer, C., Hsu, C-H., Brunner, A.M., and Strauss, S.H. 2008. Regulation of flowering time in poplar. In: Genomics of Poplars, C.P. Joshi and S. DiFazio (eds.), Science Publishers, New Hampshire, USA. (*in press*).
3. 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.
4. 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.
5. Brunner, A., J. Li, S. DiFazio, O. Shevchenko, R. Mohamed, B. Montgomery, A. Elias, K. Van Wormer, S.P. DiFazio, & S.H. Strauss. 2006. Genetic containment of forest plantations. *Tree Genetics & Genomes* 3: 75-100. (Strauss is co-senior author)
6. Arias, R., S. Filichkin, and S.H. Strauss. 2006. Divide and conquer: Plant cell cycle and development genes for plant transformation. *Trends Biotechnol.* 24:267-273.
7. 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.

8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. Strauss, S.H. 2003. Genomics, genetic engineering, and domestication of crops. *Science* 300:61-62.
14. 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.
15. 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.
16. Adams, J.M., G. Piovesan, S.H. Strauss, and S. Brown. 2002. Genetic engineering of forest trees against introduced pests and diseases. *Conserv. Biol.* 16:874-879.
17. 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.
18. 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.
19. Strauss, S.H., S. DiFazio, and R. Meilan. 2001. Genetically modified poplars in context. *Forestry Chron.* 77(2):1-9.
20. Bradshaw, H.D., Jr., and S.H. Strauss. 2000. Breeding strategies for the 21<sup>st</sup> 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.
21. 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.
22. 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

23. Bao, Y. P. Dharmawardhana, T. C. Mockler, and S.H. Strauss. 2009. Genome scale transcriptome analysis of shoot organogenesis in *Populus*. *BioMedCentral Plant Biology* (in press).
24. 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* (in press)
25. 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.
26. 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.
27. 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.
28. Li, J., A.M. Brunner, R. Meilan, and S.H. Strauss .2008. MAR elements have small and variable effects on transgene expression and stability in field grown *Populus*. *Plant Biotechnol. J.* 6: 887-896.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.

36. 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 *rgl1* causes dwarfing and alters gibberellins, root growth, and metabolite profiles in *Populus*. *Planta* 24:288-299.
37. 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.
38. 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.
39. 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.
40. 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. <http://www.biomedcentral.com/1471-2229/4/14> doi:10.1186/1471-2229-4-14
41. Sterky, F., R.R. Bhalerao, P. Unneberg, B. Segerman, P. Nilsson, A.M. Brunner, L. Charbonnel-Campaa, J.J. Lindvall, K. Tandre, 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* expressed sequence tag resource for plant functional genomics. *Proc. Natl. Acad. Sci. USA* 101:13951-13956.
42. Andersson, A., J. Keskitalo, A. Sjodin, R. Bhalerao, F. Sterky, K. Wissel, K. Tandre, 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, <http://genomebiology.com/2004/5/4/R24>
43. 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.
44. 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.
45. 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.
46. 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.

## EXAMPLES OF 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. (in press)
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.
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.

Recent Articles (2003-2009)

1. Harvey, J., and S.H. Strauss. 2009. Towards physiological sculpture of plants. *New Phytologist* 181:8-12.
2. 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.
3. Strauss, S.H., S. Filichkin, H. Gandhi, V. Canon, R. Arias, K. VanWormer, P. Dharmwardhana, 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.
4. Strauss, S.H., A. Brunner, 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.
5. 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.
6. Valenzuela, S., and S.H. Strauss. 2005. Lost in the woods. *Nature Biotechnol.* 23:532-533.
7. Strauss, S.H., and F.M. Martin. 2004. Poplar genomics comes of age. *New Phytol.* 164:1-4.
8. Strauss, S.H. 2004. GE trees: The buzz is not from chain saws. *TimberWest* May/June:28.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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).
14. Strauss, S.H. 2003. Regulation of biotechnology as though gene function mattered. *BioScience* 53:453-454.

## EXAMPLES OF RECENT INVITED PRESENTATIONS

1. 2009. Growth and form modification in poplar via transgenic modification of gibberellic acid signaling. Poplar Symposium, Goettingen, Germany.
2. 2009. Field trial to evaluate mutagenesis in activation tagged poplars. Consortium for Plant Biotechnology Research Annual Meeting, Washington, DC
3. 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.
4. 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.
5. 2009. Intragenic improvement of growth rate in poplar. Workshop on Intragenics, USDA ARS Research Center, Berkeley/Albany, California.
6. 2008. Cisgenics as a tool for generalized crop improvement? Gates Foundation, Seattle, Washington.
7. 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.
8. 2008. Impacts of regulation on research and development of genetically modified woody biofuels crops. Iowa State University BIGMAP (Biosafety Institute) Annual Meeting.
9. 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.
10. 2008. Stability of transgene expression and RNAi suppression in field grown poplars. Plant and Animal Genome Conference, Forest Trees Workshop, San Diego, CA.
11. 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.
12. 2007. Understanding Biotechnology. Oregon Seed Growers League Annual Conference, Salem, Oregon.
13. 2007. Transgenic domestication of forest trees: Collision of genomics and society. Department of Botany and Plant Pathology, Oregon State University.
14. 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.
15. 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.
16. 2006. Gibberellic acid genes for physiological sculpture of trees. Center for Genome Research and Biocomputing at OSU annual retreat, Eagle Crest, Redmond, OR.

17. 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.
18. 2006. Genetic containment of poplar plantations. International Poplar Symposium IV, Nanjing, China.
19. 2006. Genetic engineering approaches to breeding sterility and reduced invasiveness. Second USDA-ARS floral and nursery crops workshop, Portland, OR.
20. 2006. Ecological science vs. popular environmentalism: A view from the world of crop biotechnology. Department of Fisheries and Wildlife, Oregon State University.
21. 2006. Development and validation of sterility systems for trees. Department of Energy, Agenda 2020 Conference, Atlanta, GA.
22. 2006. Genetic engineering of sterility in trees. Arborgen Company, Sumerville, SC.
23. 2006. Ten years of transgenic poplar research on genetic containment. Agriculture Canada Oakanagan Research Center, Sumerland, British Columbia, Canada.
24. 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.
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