

Paula M. Pijut

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Education

1988	Ph.D., Horticulture	The Ohio State University, Columbus, OH
1984	M.S., Horticulture	Murray State University, Murray, KY
1975	B.S., Medical Technology	Maryville College of the Sacred Heart, St. Louis, MO

Research Interests

Broad interests in plant cell, tissue, and organ culture for tree improvement and production. Applied and fundamental research directed toward germ plasm improvement to increase resistance or tolerance to biotic or abiotic stressors. Emphasis on the physiological, anatomical, and biochemical bases for defense mechanisms to pathogen infection. Development of protocols for in vitro selection, somatic embryogenesis, micropropagation, genetic transformation, vegetative propagation, and induction of early flowering in forest tree species, with subsequent acclimatization of plant material to greenhouse and field environments. Current species of interest include black walnut, northern red oak, black cherry, butternut, white oak, red and sugar maple, and green and white ash.

Professional Employment

Research Plant Physiologist, USDA Forest Service, Northern Research Station (NRS),
Hardwood Tree Improvement and Regeneration Center, West Lafayette, IN, July 2001-
present.
Adjunct Assistant Professor, Dept. of Forestry and Natural Resources, Purdue University, West
Lafayette, IN, July 2001-present.
Research Plant Physiologist, USDA Forest Service, North Central Research Station (NCRS), St.
Paul, MN, 1990-July 2001.
Adjunct Assistant Professor, Plant Biological Sciences, University of Minnesota, St. Paul, MN,
1991-July 2001.
Post-doctoral Plant Physiologist, USDA Forest Service, NCRS, St. Paul, MN, 1989-1990.
Graduate Research Associate, Dept. of Horticulture, The Ohio State University, Columbus, OH,
1985-1988.
Horticulture Instructor, Dept. of Biological Sciences, Ohio Wesleyan University, Delaware, OH,
Aug. 1987-Dec. 1987.
Graduate Research Associate, Dept. of Plant Pathology, The Ohio State University, Columbus,
OH, June 1984-Aug. 1984.
Graduate Research Assistant, Dept. of Agriculture, Murray State University, Murray, KY, 1981-
1983.
Medical Technologist - Research Technologist, Barnes Hospital - Washington University, St.
Louis, MO, 1975-1981.

Awards and Honors

- Performance Bonus Award, (for superior performance), USDA Forest Service, NRS, 2007.
- In Vitro Report* Journal Highlight. 2007. Pijut, P.M., Woeste, K.E., Vengadesan, G., and Michler, C.H. Technological advances in temperate hardwood tree improvement including breeding and molecular marker applications. *In Vitro Cellular and Developmental Biology-Plant* 41.3
- Certificate of Merit, (for coordinating and editing the *Planting and Care of Fine Hardwood Seedlings* manual), USDA Forest Service, NCRS, 2004.
- Certificate of Merit, (for superior performance), USDA Forest Service, NCRS, 1997.
- Certificate of Merit, (for superior performance), USDA Forest Service, NCRS, 1996.
- Certificate of Merit, (for strong personal effort in leading the Station's Civil Rights Committee), USDA Forest Service, NCRS, 1996.
- Certificate of Merit, (for exemplary efforts in performance of daily management activities for RWU-4502), USDA Forest Service, NCRS, 1995.
- Certificate of Merit, (for superior performance), USDA Forest Service, NCRS, 1995.
- Recognition Award, (for demonstrating commitment to the principles of multiculturalism in Forest Service Management), USDA Forest Service, NCRS, 1994.
- Certificate of Merit, (for superior performance), USDA Forest Service, NCRS, 1993.
- Certificate of Merit, (for National leadership in Forest Service efforts to preserve the butternut tree as a component of eastern forests), USDA Forest Service, NCRS, 1993.
- Certificate of Merit, (for superior performance), USDA Forest Service, NCRS, 1992.
- Certificate of Merit, (for outstanding effort in developing, planning and coordinating the Research Orientation Training), USDA Forest Service, NCRS, 1992.
- Sigma Xi, Scientific Research Honorary, (in recognition of noteworthy achievement in research), 1988.
- Student Travel Award, American Society for Horticultural Science (ASHS), (for best abstract submitted for oral presentation), 85th Annual Meeting, Michigan State University, 1988.
- Academic Membership Award, The Ohio Chapter of the International Society of Arboriculture, (in recognition of outstanding scholastic achievement in the field of Arboriculture), 1987.
- Graduate Student Alumni Research Award, The Ohio State University, (for the best Ph.D. research proposal in all areas of life sciences), 1987.
- Gamma Sigma Delta, Agricultural Honorary, (in recognition of high scholarship, outstanding achievement, or service to Agricultural Science), 1986.

Professional Affiliations

- International Plant Propagators Society, 2002-present.
- American Association for the Advancement of Science, 1992-present.
- American Society of Plant Biologists, 1991-present.
- International Association of Plant Biotechnology, 1991-present.
- Society for In Vitro Biology, 1989-present.
- Sigma Xi, 1988-present.
- American Society for Horticultural Science, 1981-present.

Professional Service

- Society for In Vitro Biology, Long Range Planning Committee, 2008-present.

American Society for Horticultural Science, Editor (Consulting), *HortScience*, Propagation and Tissue Culture, 2003-present.
Society for In Vitro Biology, Session Convener, Forest Biotechnology, Indianapolis, IN, 2007.
International Plant Propagators Society, Eastern Region, Membership Committee, 2006.
USDA Forest Service, NCRS, Quality Control-Quality Assurance Coordinator, 2004-2008.
American Society for Horticultural Science, Committee Member, Cross-Commodity Publication Award, 2002.
University of Minnesota, Chairperson, Plant Biological Sciences, Ph.D. Written Preliminary Exam Committee, 1998.
University of Minnesota, Committee Member, Plant Biological Sciences, Ph.D. Written Preliminary Exam Committee, 1996-2000.
American Society of Plant Biologists, K-12 Education Outreach Program, 1996-present.
USDA Forest Service, NCRS, Chairperson, Civil Rights Committee, 1994-1995.
USDA Forest Service, NCRS, Co-Chairperson, Civil Rights Committee, 1993-1994.
USDA Forest Service, NCRS, Ombudsman, 1993-2000.
USDA Forest Service, NCRS, Representative, National Environmental Policy Act Team, 1993-2008.
University of Minnesota, Exam Question Writer and Grader, Plant Biological Sciences, Ph.D. Written Preliminary Exam [Plant Physiology; Cell and Molecular Biology], 1992-2001.
USDA Forest Service, NCRS, Multicultural Representative to Director and Staff, 1991.
USDA Forest Service, NCRS, Workforce Diversity Committee, St. Paul, MN, 1990.
Project Link, Program to encourage young women in grades 4-6 to increase their commitment to math and science studies. Hennepin Technical Institute, Plymouth, MN, 1989 and 1992.
The Ohio State University, Graduate Student Representative, Search Committee for Developmental Plant Physiologist, Department of Horticulture, 1987.
The Ohio State University, President, Horticulture Graduate Student Association, 1986-1987.

Manuscript Reviewer

HortScience, *American Journal of Botany*, *Plant Cell Reports*, *International Association for Plant Tissue Culture and Biotechnology*, *Journal of Tropical Forest Science*, *Journal of Experimental Biology*, *Plant Cell, Tissue and Organ Culture*, *Plant Science*, *In Vitro Cellular and Developmental Biology –Plant*, *Scientia Horticulturae*, *New Forests*, *Canadian Journal of Plant Pathology*, *Journal of Environmental Horticulture*, *Forest Science*, *Molecular-Plant Microbe Interactions*, *HortTechnology*, *Silvae Genetica*.

Publications

Journals

Du, N. and Pijut, P.M. 2008. Regeneration of plants from *Fraxinus pennsylvanica* hypocotyls and cotyledons. *Scientia Horticulturae* 118: 74-79.
Liu, X. and Pijut, P.M. 2008. Plant regeneration from in vitro leaves of mature black cherry (*Prunus serotina*). *Plant Cell, Tissue and Organ Culture* 94: 113-123.
Morse, A.M., Tschaplinski, T.J., Dervinis, C., Pijut, P.M., Schmelz, E.A., Day, W., and Davis, J.M. 2007. Salicylate and catechol levels are maintained in *nahG* transgenic poplar. *Phytochemistry* 68: 2043-2052.

- Pijut, P.M., Woeste, K.E., Vengadesan, G., and Michler, C.H. 2007. Technological advances in temperate hardwood tree improvement including breeding and molecular marker applications. *In Vitro Cellular and Developmental Biology-Plant* 43: 283-303.
- Espinosa, A.C., Pijut, P.M., and Michler, C.H. 2006. Adventitious shoot regeneration and rooting of *Prunus serotina* in vitro cultures. *HortScience* 41(1): 193-201.
- Wichman, J., Hawkins, R., and Pijut, P.M. 2005. Straw mulch prevents loss of fall-sown seed to cold temperatures and wildlife predation. *Native Plants Journal* 6(2): 282-285.
- Michler, C.H., Pijut, P.M., Jacobs, D.F., Meilan, R., Woeste, K.E., and Ostry, M.E. 2005. Improving disease resistance of butternut (*Juglans cinerea*), a threatened fine hardwood: a case for single-tree selection through genetic improvement and deployment. *Tree Physiology* 26: 121-128.
- Pijut, P.M. and Moore, M.J. 2002. Early season softwood cuttings effective for vegetative propagation of *Juglans cinerea*. *HortScience* 37(4): 697-700.
- Pijut, P.M. 2002. Eastern white pine flowering in response to spray application of gibberellin A_{4/7} or ProCone™. *Northern Journal of Applied Forestry* 19(2): 68-72.
- Pijut, P.M. 2000. *Cedrus*- the true cedars. *Journal of Arboriculture* 26(4): 218-224.
- Ostry, M.E. and Pijut, P.M. 2000. Butternut: An underused resource in North America. *HortTechnology* 10(2): 302-306.
- Pijut, P.M. and Juzwik, J. 1999. Buckthorn fruit production reduced by ethylene-based product (Minnesota). *Ecological Restoration* 17(3): 167-168.
- Barker, M.J., Pijut, P.M., Ostry, M.E., and Houston, D.R. 1997. Micropropagation of juvenile and mature American beech. *Plant Cell Tissue and Organ Culture* 51(3): 209-213.
- Pijut, P.M. 1993. Somatic embryogenesis in butternut, *Juglans cinerea*. *Canadian Journal of Forest Research* 23: 835-838.
- Ostry, M.E., Pijut, P.M. and Skilling, D.D. 1991. Screening larch in vitro for resistance to *Mycosphaerella laricina*. *Plant Disease* 75: 1222-1224.
- Pijut, P.M., Domir, S.C., Lineberger, R.D. and Schreiber, L.R. 1990. Use of culture filtrates of *Ceratocystis ulmi* as a bioassay to screen for disease tolerant *Ulmus americana*. *Plant Science* 70: 191-196.
- Pijut, P.M., Lineberger, R.D., Domir, S.C., Ichida, J.M. and Krause, C.R. 1990. Ultrastructure of cells of *Ulmus americana* cultured in vitro and exposed to the culture filtrate of *Ceratocystis ulmi*. *Phytopathology* 80: 764-767.
- Lineberger, R.D., Sticklen, M.B., Pijut, P.M., Kroggel, M.A., Fink, C.V.M. and Domir, S.C. 1990. Use of protoplast, cell, and shoot tip culture in an elm germ plasm improvement program. *Acta Horticulturae* 280: 247-253.
- Book Chapters and Proceedings
- Michler, C.H., Pijut, P.M., Meilan, R., Smagh, G., Liang, X., and Woeste, K.E. 2008. Black Walnut. pp.263-278. IN: Kole, C. and Hall, T.C. (eds.), *Compendium of Transgenic Crop Plants: Transgenic Forest Tree Species*. Blackwell Publishing, Oxford, UK.
- Jacobs, D.F.; Michler, C.H (eds.). Associate Editors: Bumgardner, M., Ginzler, M., Hoover, W., Pijut, P., Rathfon, R., Saunders, M., Shifley, S., Stewart, S., Woeste, K. 2008. *Proceedings, 16th Central Hardwood Forest Conference*. Gen. Tech. Rep. NRS-P-24. Newton Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 595 p. [CD-ROM].

- Michler, C.H., Woeste, K.E., and Pijut, P.M. 2007. Black walnut. pp. 189-198. IN: Kole, C. (ed.), *Genome Mapping and Molecular Breeding in Plants*. Vol.7: Forest Trees. Springer-Verlag Berlin Heidelberg.
- Woeste, K., McKenna, J., and Pijut, P. 2007. Summary of black cherry improvement at the Hardwood Tree Improvement and Regeneration Center (HTIRC). Tree Improvement in the 21st Century: Planning for the Future, *Proceedings of the 3rd Northern Forest Genetics Association Meeting*. Dept. Forest Resources, University of MN, Staff Paper Series No. 194: 15-19.
- Michler, C.H., Meilan, R., Woeste, K.E., Pijut, P.M., Jacobs, D., Aldrich, P., and Glaubitz, J. 2005. Hardwood genetics and tree improvement: A Midwest USA perspective. pp. 69-74. IN: Colombo, S.J. (comp.) 2005. *The Thin Green Line: A symposium on the state-of-the-art in reforestation Proceedings*. Thunder Bay, ON. Ontario Forest Research Institute, Sault Ste. Marie, ON. For. Res. Inf. Pap. No. 160. 169 p.
- Pijut, P.M. and Espinosa, C. 2004. Development of a rooted cutting propagation method for *Prunus serotina*. *The International Plant Propagators' Society Combined Proceedings*, Vol. 54: 513-515.
- Pijut, P.M. 2004. Vegetative propagation of butternut (*Juglans cinerea*) – field results. pp. 37-44. IN: Michler, C.H., Pijut, P.M., Van Sambeek, J., Coggeshall, M., Seifert, J., Woeste, K., Overton, R. (eds.). Black walnut in a new century. *Proceedings of the 6th Walnut Council Research Symposium*. Gen. Tech. Rep. NC-243. St. Paul, MN: USDA Forest Service, North Central Research Station. 188 p.
- Michler, C.H., Pijut, P.M., Van Sambeek, J., Coggeshall, M., Seifert, J., Woeste, K., Overton, R. 2004. (eds.) Black walnut in a new century. *Proceedings of the 6th Walnut Council Research Symposium*, Gen. Tech. Rep. NC-243. St. Paul, MN: USDA Forest Service, North Central Research Station. 188 p.
- Michler, C.H., Bosela, M.J., Pijut, P.M., and Woeste, K.E. 2003. The hardwood tree improvement and regeneration center: its strategic plans for sustaining the hardwood resource. pp. 460-465. IN: Van Sambeek, J.W., Dawson, J.O., Ponder, F., Jr, Loewenstein, E.F., Fralish, E.F. (eds.). *Proceedings of the 13th Central Hardwood Forest Conference*, Gen. Tech. Rep. NC-234, St. Paul, MN: USDA Forest Service, North Central Research Station. 565 p.
- Pijut, P.M. 2004. *Acer spicatum*. IN: Francis, J.K. (ed.), *Wildland Shrubs of the United States and its Territories: Thamnic Descriptions*. USDA Forest Service, Gen. Tech. Rep. IITF-GTR-26: 27-29.
- Pijut, P.M. 2004. *Comptonia peregrina*. IN: Francis, J.K. (ed.), *Wildland Shrubs of the United States and its Territories: Thamnic Descriptions*. USDA Forest Service, Gen. Tech. Rep. IITF-GTR-26: 237-239.
- Pijut, P.M. 2004. *Cornus sericea*. IN: Francis, J.K. (ed.), *Wildland Shrubs of the United States and its Territories: Thamnic Descriptions*. USDA Forest Service, Gen. Tech. Rep. IITF-GTR-26: 249-251.
- Pijut, P.M. 2001. *Laburnum*. IN: Woody Plant Seed Manual, Agriculture Handbook 727, Bonner, F.T. and Karrfalt, R.P. (eds.), USDA Forest Service, Washington, DC. pp. 631-633. (Published on-line in 2008: http://www.nsl.fs.fed.us/nsl_wpsm.html)
- Pijut, P.M. 2000. *Kalopanax*. IN: Woody Plant Seed Manual, Agriculture Handbook 727, Bonner, F.T. and Karrfalt, R.P. (eds.), USDA Forest Service, Washington, DC. pp. 618-619. (Published on-line in 2008: http://www.nsl.fs.fed.us/nsl_wpsm.html)

- Pijut, P.M. 2000. *Cedrus*. IN: Woody Plant Seed Manual, Agriculture Handbook 727, Bonner, F.T. and Karrfalt, R.P. (eds.), USDA Forest Service, Washington, DC. pp. 357-362. (Published on-line in 2008: http://www.nsl.fs.fed.us/nsl_wpsm.html)
- Pijut, P.M. 2000. *Colutea*. IN: Woody Plant Seed Manual, Agriculture Handbook 727, Bonner, F.T. and Karrfalt, R.P. (eds.), USDA Forest Service, Washington, DC. pp. 426-427. (Published on-line in 2008: http://www.nsl.fs.fed.us/nsl_wpsm.html)
- Pijut, P.M. 2000. *Carpinus*. IN: Woody Plant Seed Manual, Agriculture Handbook 727, Bonner, F.T. and Karrfalt, R.P. (eds.), USDA Forest Service, Washington, DC. pp. 328-332. (Published on-line in 2008: http://www.nsl.fs.fed.us/nsl_wpsm.html)
- Pijut, P.M. 2000. *Cotinus*. IN: Woody Plant Seed Manual, Agriculture Handbook 727, Bonner, F.T. and Karrfalt, R.P. (eds.), USDA Forest Service, Washington, DC. pp. 438-441. (Published on-line in 2008: http://www.nsl.fs.fed.us/nsl_wpsm.html)
- Pijut, P.M. 1999. Somatic embryogenesis from immature fruit of *Juglans cinerea*. IN: Jain, S.M., Gupta, P.K., and Newton, R.J. (eds.). *Somatic Embryogenesis in Woody Plants*, Vol.4, Section B: 415-429, Kluwer Academic Publishers, The Netherlands.
- Zambino, P.J., Pijut, P.M., Echt, C.S., and Michler, C.H. 1998. Dry-grinding miniprep method for extracting DNA from urediospores, aeciospores, and teliospores of white pine blister rust, *Cronartium ribicola*. IN: Jalkanen, R., Crane, P.E., Walla, J.A., and Aalto, T. (eds.). *Proceedings of the 1st IUFRO Rusts of Forest Trees Working Party Conference*, Saariselka, Finland, Finnish Forest Research Institute, Research Papers 712: 297-298.
- Pijut, P.M. 1997. Micropropagation of *Juglans cinerea* L. (Butternut). IN: Bajaj, Y.P.S. (ed.). *Biotechnology in Agriculture and Forestry*, Vol.39, High-Tech and Micropropagation, Section III.4: 345-357. Springer-Verlag, Berlin, Heidelberg, New York.
- Michler, C.H., Pijut, P.M. and Voelker, T.M. 1994. Effects of embryo explant manipulation, cytokinin and sucrose concentration on *Pinus strobus* adventitious shoot regeneration and elongation. IN: Pardos, J.A., Ahuja, M.R., and Elena Rossello, R. (eds.), *Investigacion Agraria: Sistemas y Recursos Forestales*, Fuera de Serie 4, p.59. *Biotechnology of Trees*, *Proceedings of the IUFRO Working Party S2.04-07, Somatic Cell Genetics*, Valsain, Spain.
- Skilling, D., Ostry, M. and Pijut, P. 1993. The use of tissue culture to produce trees with resistance to canker diseases. IN: Barklund, P., Livsey, S., Karlman, M., and Stephan, R. (eds.), *Shoot diseases of conifers* pp 123-129. *Proceedings of the IUFRO Working Party S2.06.02, Canker and Shoot Blight of Conifers*, Garpenberg, Sweden.
- Domir, S.C., Sticklen, M.B., Pijut, P.M., Bolyard, M. and Lineberger, R.D. 1993. Micropropagation and regeneration of DED-resistant elms using protoplast and tissue culture techniques. IN: Sticklen, M.B. and Sherald, J.L. (eds.), *Dutch elm disease research: cellular and molecular approaches*, pp 81-88, Springer-Verlag, New York
- Domir, S.C., Schreiber, L.R. and Pijut, P.M. 1993. Development of model systems to screen elms resistant to Dutch elm disease. IN: Sticklen, M.B. and Sherald, J.L. (eds.), *Dutch elm disease research: cellular and molecular approaches*, pp 181-187. Springer-Verlag, New York
- Pijut, P.M., Michler, C.H. and Voelker, T.V. 1992. In vitro studies of adventitious shoot formation in *Pinus strobus*. IN: Stine, R.A. and Baughman, M.J. (eds.), *White Pine Symposium Proceedings: History, Ecology, Policy and Management*; NR-BU-6044-S: 202.
- Pijut, P.M., Michler, C.H. and Voelker, T.M. 1991. Effects of embryo explant orientation, thidiazuron, and agar on eastern white pine (*Pinus strobus* L.) adventitious shoot initiation. IN: Michler, C.H., Becwar, M.R., Cullen, D., Nance, W.L., Sederoff, R.R., and Slavicek,

- J.M. (eds.), *International Symposium on the Applications of Biotechnology to Tree Culture, Protection, and Utilization*, USDA Forest Service Gen. Tech. Rep. NE-152: 126.
- Skilling, D.D., Ostry, M.E. and Pijut, P.M. 1990. Use of somaclonal variation techniques to produce rust resistant white pine. IN: *Proceedings of a Symposium on White Pine Provenances and Breeding*, USDA Forest Service Gen. Tech. Rep. NE-155: 46-49.
- Domir, S.C., Schreiber L.R., Pijut, P.M., Ichida, J.M. and Krause, C.R. 1988. Approaches to elm germ plasm improvement. IN: *Proceedings of the IUFRO Advanced Biotechnology Research Working Group*, Iowa State University, Ames, Iowa.
- Professional Papers, Presentations, and Posters
- Du, N. and Pijut, P.M. 2007. Adventitious shoot regeneration of *Fraxinus pennsylvanica*. In *In Vitro Cellular and Developmental Biology-Plant* 43:S45-S46. P-2016.
- Liu, X. and Pijut, P.M. 2007. Adventitious shoot regeneration and genetic transformation of *Prunus serotina* for reproductive sterility. In *In Vitro Cellular and Developmental Biology-Plant* 43:S42. P-2005.
- Vengadesan, G. and Pijut, P.M. 2007. In vitro propagation of northern red oak (*Quercus rubra* L.). In *In Vitro Cellular and Developmental Biology-Plant* 43: S46. P-2017.
- Roschke, C. and Pijut, P.M. 2007. Micropropagation of *Juglans nigra* L. in liquid culture. In *In Vitro Cellular and Developmental Biology-Plant* 43:S42-S43. P-2007.
- Michler, C.H., Pijut, P.M., Jacobs, D.F., Meilan, R., Woeste, K.E., and Ginzler, M. 2007. Fine hardwood biotechnology: enhancing productivity for the Midwest. In *In Vitro Cellular and Developmental Biology-Plant* 43:S21-S22. P-27.
- Pijut, P.M. 2007. Tissue culture and vegetative propagation of butternut (*Juglans cinerea* L.). *New England Society of American Foresters, 87th winter meeting in conjunction with the Northeast Forest Pest Council*, Lake Moree Resort, Fairlee, VT.
- Pijut, P.M. 2006. Tissue culture and vegetative propagation of butternut (*Juglans cinerea* L.). *Research Symposium and Workshop on Butternut Canker Disease*, Niagara Falls, Ontario, Canada.
- Woeste, K., McKenna, J., and Pijut, P. 2006. Summary of black cherry improvement at the Hardwood Tree Improvement and Regeneration Center (HTIRC). Tree Improvement in the 21st Century: Planning for the Future, *Proceedings of the 3rd Northern Forest Genetics Association Meeting*, Cloquet, MN. Dept. Forest Resources, University of MN, Staff Paper Series No. 194: 15-19.
- Smagh, G.S., Michler, C.H., Pijut, P.M., Liang, X., Meilan, R. 2006. Genetic transformation of black walnut (*Juglans nigra*) to enhance economic traits. *11th International Association for Plant Tissue Culture and Biotechnology Congress*, Beijing, China.
- Meilan, R., Bauer, L., Miller, D., Du, N., Ci, X., Pijut, P., and Michler, C. 2006. Development of resistant ash to facilitate the eradication of emerald ash borer. p.40-41. In: Mastro, V., Reardon, R., and Parra, G. (compilers), *Emerald Ash Borer Research and Technology Development Meeting*, Pittsburgh, PA. Forest Health Technology Enterprise Team, FHTET-2005-16.
- Espinosa, A.C., Pijut, P.M., and Michler, C.H. 2005. Adventitious shoot regeneration from leaf pieces and rooting of *Prunus serotina* in vitro cultures. *IUFRO Tree Biotechnology 2005*, Pretoria, South Africa.
- Michler, C.H., Meilan, R., Woeste, K.E., Pijut, P.M., Jacobs, D., Aldrich, P., and Glaubitz, J. 2005. Hardwood genetics and tree improvement: A Midwest USA perspective. The Thin

- Green Line, an *IUFRO Symposium on the State-of-the-Art in Reforestation*, Thunder Bay, Ontario, Canada.
- Pijut, P.M. 2004. Application of tree tissue culture technologies for fine hardwood tree improvement. *28th Annual Meeting of the Indiana Forest and Woodland Owners Association*, West Lafayette, IN.
- Michler, C.H., Jacobs, D., Pijut, P.M., Meilan, R., Woeste, K.E. 2004. Fine hardwood tree improvement: Enhanced productivity and species restoration. *1st Annual Hardwood Research Review, National Hardwood Lumber Association*, Toronto, Canada.
- Michler, C.H., Bosela, M.J., Smagh, G.S., and Pijut, P.M. 2004. Genetic transformation of *Juglans nigra* (black walnut) somatic embryos: effects of genotype and kanamycin selection. *5th International Walnut Symposium*, Abstract 027, Sant' Agnello di Sorrento (Naples) Italy.
- Michler, C.H., Woeste, K.E., Pijut, P.M., Jacobs, D., Meilan, R., and Ostry, M.E. 2004. Improving disease resistance of butternut (*Juglans cinerea*), a threatened fine hardwood: a case for single tree selection through genetic improvement and deployment. *North American Forest Biology Workshop*, Michigan Technological University, Houghton, MI.
- Pijut, P.M. and Espinosa, C. 2004. Vegetative propagation of *Prunus serotina* Ehrh. (black cherry). *4th International Symposium on Adventitious Root Formation*, Savannah, GA. (web site publication only).
- Michler, C.H., Meilan, R., Woeste, K.E., Pijut, P.M., Jacobs, D., Aldrich, P., and Glaubitz, J. 2004. Hardwood tree improvement – a North American perspective. *Royal Agricultural Society of England, An International Hardwood Improvement Conference* entitled Better Trees, Better Profits, Stoneleigh Park, Warwickshire.
- Pijut, P.M. and Espinosa, C. 2004. Development of a rooted cutting propagation method for *Prunus serotina* Ehrh. *54th Annual Meeting of the Eastern Region of the International Plant Propagators' Society*, Milwaukee, WI.
- Pijut, P.M. 2003. Walnut tissue culture. *Indiana Nut Growers 50th Anniversary Fall Meeting in conjunction with the Indiana Chapters of the Walnut Council and American Chestnut Foundation*. John S. Wright Forestry Center, West Lafayette, IN.
- Pijut, P.M. 2002. Flower induction on grafted eastern white pine. *17th North American Forest Biology Workshop and Western Forest Genetics Association Meeting*, Washington State University, Pullman, WA, Abstract No. 4, p. 28.
- Michler, C.H., Bosela, M.J., Pijut, P.M., and Woeste, K.E. 2002. The hardwood tree improvement and regeneration center: strategic plans for sustaining the hardwood resource. *13th Central Hardwood Forest Conference*, University of Illinois, Urbana-Champaign.
- Pijut, P.M. 2000. Stimulation of early flowering in eastern white pine. *Plant Biology 2000, Annual Meeting of the American Society of Plant Physiologists*, San Diego, CA. *Plant Biology 2000 Final Program*, Abstract No. 672, p.140.
- Ostry, M.E. and Pijut, P.M. 1999. Butternut: An under-utilized resource in North America. *American Society for Horticultural Science Annual Meeting*, Minneapolis, MN.
- Pijut, P.M. and Barker, M.J. 1999. Propagation of *Juglans cinerea* L. (Butternut). *American Society for Horticultural Science Annual Meeting*, Minneapolis, MN. *HortScience* 34(3): 458-459.
- Pijut, P.M. and Davis, J.M. 1999. *Agrobacterium*-mediated transformation and regeneration of hybrid poplar expressing a bacterial salicylate hydroxylase gene. *Forest Biotechnology '99, A joint meeting of The International Wood Biotechnology Symposium and IUFRO Working*

- Party 2.04-06, Molecular Genetics of Trees*, Keble College, Oxford, England, Abstract No. 40.
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- Pijut, P.M. 2007. Application of tissue culture, genetic transformation, and vegetative propagation technologies for fine hardwood tree improvement. *South Newton Middle School and High School*, Kentland, IN. High School horticulture class (Mr. Shane Story), High School biotechnology class (Mr. Tony Hiatt), 6th grade Agriculture class (Ms. Karen Lowry), and 8th grade science class (Ms. Karen Lowry).
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Grants

2007. Conventional and in vitro production technologies for black cherry (*Prunus serotina*). Pijut, P.M. (PI), Woeste, K.E., Michler, C.H., McKenna, J.R., Pardillo, G., Schott, M.C. Mission-Oriented, Internal Competitive Grant Opportunity, College of Agriculture, Purdue University (\$25,000).
- 2005 (Sept. 1)-2007 (Sept. 1). Funding to support Post-doctoral Fellowship for Dr. G. Vengadesan from the Fred M. van Eck Foundation for Purdue University (\$57,000. per year).
2005. Development of herbicide-tolerant hardwoods. Meilan, R. (PI), Michler, C.H., Pijut, P.M., and Seifert, J.R. 2005. Consortium for Plant Biotechnology Research (\$81,000).
- 2004-2008. Funding to support the Graduate studies of Ningxia Du (PhD) from the Fred M. van Eck Foundation for Purdue University (\$36,000. per year).
1999. Flower induction on young grafted white pine material. University of Minnesota, College of Natural Resources, White Pine Blister Rust Program (\$45,680).
1997. Stimulation of early flowering in eastern white pine, *Pinus strobus*. University of Minnesota, College of Natural Resources, White Pine Blister Rust Program (\$57,630).
1992. Civil Rights Special Projects proposal to the North Central Research Station Civil Rights Committee for the support of a math and science project in the elementary classroom (\$1200)
1987. Effects of culture filtrates of *Ceratocystis ulmi* on growth and ultrastructure of in vitro cultured *Ulmus americana*. The Ohio State University, Graduate Alumni Research Award. The proposal was awarded as one of the best Ph.D. research proposal in all areas of life sciences (\$650).

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