

## Jonathan F. Wendel

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**Academic Training:** B.S., University of Michigan (1976); M.S., University of North Carolina (1980); Ph.D., University of North Carolina (1983)

### Academic Positions:

5/83-7/86: Geneticist, USDA, ARS, Genetics Dept., North Carolina State University  
8/86-7/91: Assistant Professor of Botany, Dept. of Botany, Iowa State University  
8/91-7/96: Associate Professor of Botany, Dept. of Botany, Iowa State University  
12/97-6/98: Jacob Meyerhoff Visiting Professor, Weizmann Institute, Rehovot, Israel  
8/96-6/2002: Professor of Botany, Dept. of Botany, Iowa State University  
7/2002-6/2003: Interim Chair, Department of Ecology, Evolution, & Organismal Biology, Iowa State University  
7/2003-present: Chair, Department of Ecology, Evolution, & Organismal Biology, Iowa State University  
7/2012 – present: Distinguished Professor, Department of Ecology, Evolution, & Organismal Biology, Iowa State University

### Professional Service:

Editorial Committee, Systematic Botany (1/87 - 12/89)  
Symposium Committee, Genetics Section, Botanical Society of America (1985 - 1991)  
Chair, Nominating Committee, Genetics Section, Botanical Society of America (6/87 - 9/88)  
Financial Advisory Committee, American Ass. Plant Taxonomists (1/87 - 12/89; 10/97-1/00)  
Secretary-Treasurer, Economic Botany Section, Botanical Society of America (1/88 - 12/90)  
Section Program Organizer, Economic Botany Section, AIBS meetings, 1988 to 1990.  
Symposium Organizer: “*Molecular and Genetic Organization of Plant Chromosomes*”, Toronto, August, 1989.  
Program Committee, “4th Int. Cong. Devel. Appl. New Technologies for Varietal Identification”, Ames, IA, August, 1990.  
Management Committee, Botanical Society of America (1/90 - 12/94)  
Grant Proposal Review Panelist, NSF Systematic Biology Program (4/90, 10/91, 10/92, 4/94, 10/95)  
Honors Committee, American Society of Plant Taxonomists (8/92 - 8/93)  
Organizing Committee, Molecular Evolution Conference, ISU (4/94)  
Associate Editor, *Journal of Heredity*, (1995 - 2000)  
Council Member, American Genetic Association (1997-1999)  
Symposium organizer (with M. Ainouche): “*Genome evolution in hybrid plant species*”, International Botanical Congress, St Louis, August, 1999  
Symposium organizer (with L. Reiseberg): “*Plant speciation*”, Antigonish, Nova Scotia, June 2003  
Publications Committee, Botanical Society of America (1999 – 2004)  
Monitoring Editor, *Plant Physiology*, (1999 – 2006)  
Botanical Society of America, Committee on Committees (2003 – 2006)  
Organizing Committee, *International symposium on polyploidy, heterosis, and epigenetics*, Beijing, May, 2007

Scientific Committee, *International Conference on Polyploidy, Hybridization and Biodiversity*, St. Malo, France, May, 2009  
Symposium Organizer, *Polyploidy*, International Congress of Plant Molecular Biology, St. Louis, October, 2009  
Associate Editor, *Frontiers in Plant Genetics and Genomics*, 2011- present  
Associate Editor, *BMC Plant Biology*, 2011 – present  
Associate Editor, *G3: Genes, Genomes, Genetics*, 2011- present  
Symposium Co-Organizer, *Polyploidy Session*, Plant and Animal Genome Conference, San Diego, January, 2012  
Scientific Committee, *International Conference on Polyploidy*, Prague, May 2012  
Symposium Organizer, *Polyploidy Session*, Plant and Animal Genome Conference, San Diego, January, 2013  
Conference co-organizer, *Genome Dynamics*, Banyuls, France, September 2013  
Workshop co-organizer, *Evolution of plant phenotypes, from genomes to traits*, Barcelona, Spain, March 2015

### Grants Received

Pioneer Hi-Bred International, Inc. - Analysis of recombination variation in wide crosses within the genus *Zea*; \$41,900; 10/1/86 - 9/30/89.  
National Science Foundation - Genetic variation and evolution in the genus *Gossypium* L.; \$112,995 (with undergraduate supplement); 4/1/87 - 3/31/90.  
Pioneer Hi-Bred International, Inc. - Germplasm evaluation and genetic purity in *Helianthus annuus*; \$62,500; 10/1/87 - 9/31/90.  
Minnesota Nature Conservancy (2 grants, both as co-PI with J. Pleasants) - Genetic variation in *Erythronium propullans*, a narrow endemic, and sympatric populations of *E. albidum*; \$6,000; 4/1/88 - 3/31/90.  
US Fish and Wildlife Service (co-PI with J. Pleasants) - Genetic distinctness of *Chrysosplenium iowense* in the Paleozoic Plateau region; \$25,000; 6/15/89-10/1/91  
National Science Foundation (co-PI with M. Lee) - Cooperative research in maize genetics; \$20,000; 9/1/88-2/28/90.  
National Science Foundation - Symposium: Molecular and genetic organization of plant genomes; \$2,000; 5/1/89-9/1/89.  
National Science Foundation - "Genome evolution in *Gossypium*"; \$165,000 (with undergraduate supplements); 2/1/90-2/28/95.  
National Science Foundation - (co-PI with L. Clark); Research experiences for undergraduates; \$8,000; 5/90-9/90.  
ISU - Carver grant; "Retrotransposon evolution in cotton"; \$15,000; 1/92-12/92.  
Agripro Biosciences, Inc. - \$5,000 contribution to support research efforts in *Gossypium*.  
National Science Foundation - (co-PI with L. Clark); "Phylogeny and classification of the bamboos (Poaceae: Bambusoideae s.l.)"; \$200,000; 6/93-5/96.  
National Science Foundation - (Doctoral dissertation improvement grant for Edmund Crane - PIs Wendel and Farrar); "Phylogeny of the Vittariaceae"; \$10,000; 3/93-8/95.  
ISU - Foreign Travel Grant; \$950 to assist in travel to Australia.  
National Geographic Society; "Field exploration and systematics of cotton (*Gossypium*) in Australia"; \$11,100; 1/93-12/94.  
ISU - Foreign Travel Grant; \$700 to assist in travel to Amsterdam to present a symposium address. 1994.  
National Science Foundation - Research experiences for undergraduates; \$5,000; 5/94-9/94.  
Ottawa National Forest, US Forest Service - "National forest *Botrychium* project"; \$21,600 to Wendel and Farrar; 7/95 - 1/96.

- National Science Foundation - "Single-copy sequence evolution, polyploidy and phylogeny reconstruction"; \$195,000 (with undergraduate supplements); 1/96 - 12/99.
- ISU - Foreign Travel Grant; \$1200 to assist in travel to Australia. 1997.
- Ottawa National Forest, US Forest Service - "National forest *Botrychium* project continuation"; \$10,600 to Wendel and Farrar; 7/96 - 1/97.
- National Science Foundation - "Modernization of the Pohl Conservatory, a vital resource for plant biology research and research training"; \$700,000 (including \$350,000 matching from Iowa State University); 10/96 - 12/98.
- National Science Foundation - "Structure and function of the cotton genome: an integrated analysis of the genetics, development and evolution of the cotton fiber" (co-PI with 4 other investigators); \$3,750,100 total; \$478,000 to ISU; 10/98 - 4/02.
- National Science Foundation - "Computational molecular biology training group" (co-PI with 4 other investigators; D. Voytas, PI); \$2,400,000; 4/99 - 3/05.
- United States - Israel Binational Science Foundation - "DNA elimination associated with polyploidy in plants" (co-PI with M. Feldman and A. Levy); \$150,000; 11/99 - 10/02.
- Plant Sciences Institute, Iowa State University - "Gene expression in polyploids"; \$50,000; 7/1/00 - 6/30/02.
- Monsanto Incorporated - "Genetic diversity in cotton"; \$70,000; 7/1/00 - 12/31/02.
- United States Department of Agriculture - "Gene expression in polyploid cotton"; \$160,000; 9/15/01 - 8/14/03.
- NSF - International, Western Europe Program - "International collaborative investigation of polyploid genome evolution"; \$20,070; 2/1/02 - 12/31/06.
- National Institute of Health - "Center for research on botanical dietary supplements" (D. Birt, PI, with 15 others); \$7,200,000; ~ \$300,000 to J. Wendel; 7/02 - 5/07
- Environmental Protection Agency - "Assessment of potential for gene flow between transgenic cotton and the endemic Hawaiian cotton" (J. Wendel, PI, with J. Pleasants, co-PI); \$17,228; 9/02-1/04
- National Science Foundation - "Comparative evolutionary genomics of cotton" (J. Wendel, PI; 3 co-PIs); \$4,197,862 total; \$1,850,000 to ISU; 9/02 - 8/07.
- National Science Foundation - "Planning grant: why are so many plants polyploid?" (J. Wendel, co-PI with A. Paterson, PI, and two other co-PIs); \$49,430; 1/04-12/04.
- National Science Foundation - "RET - Research opportunities in molecular biology, biotechnology, and genomics"; \$100,000; 4/03 - 3/04.
- National Science Foundation - "RET - Research opportunities in molecular biology, biotechnology, and genomics"; \$100,000; 4/04 - 3/05.
- National Science Foundation - "RET - Research opportunities in molecular biology, biotechnology, and genomics"; \$87,175; 4/05 - 3/06.
- United States Department of Agriculture - "Gene expression in polyploid cotton"; \$360,000; 8/1/05 - 7/31/09.
- National Science Foundation - "DNA markers and the genomic composition of bananas"; \$48,000; 6/06-5/07
- National Science Foundation - "RET - Research opportunities in molecular biology, biotechnology, and genomics"; \$72,925; 4/06 - 3/07.
- National Science Foundation - "Genome evolution in diploid and polyploid cotton" (J. Wendel, PI; Andy Paterson and Rod Wing, co-PIs); \$1,543,996, \$470,000 to ISU; 10/1/06 - 9/30/09.
- Cotton Incorporated - "Comparative evolutionary proteomics of cotton"; \$35,000; 1/09-1/10
- Cotton Incorporated - "Development and application of next-generation sequencing technologies for cotton improvement"; \$20,000; 1/09-1/10
- National Science Foundation - "Comparative evolutionary genomics of cotton" (J. Wendel, PI; Andy Paterson and Josh Udall, co-PIs); \$4, 985,269, \$2,090,883 to ISU; 3/1/09 - 2/28/14.

Cotton Incorporated – “Comparative evolutionary proteomics of cotton”; \$40,000; 1/10-1/11  
Cotton Incorporated – “Development and application of next-generation sequencing technologies for cotton improvement”; \$20,000; 1/10-1/11  
National Science Foundation – “Comparative evolutionary genomics of cotton” (J. Wendel, PI; Andy Paterson and Josh Udall, co-PIs); supplement of \$93,304, 2010.  
Cotton Incorporated – Genomic consequences of polyploidy in two agronomically important cotton species; \$48,000; 8/11 – 7/12  
Cotton Incorporated – “Comparative evolutionary proteomics of cotton”; \$25,000; 1/11-1/12  
US-Israel Binational Science Foundation – “The evolution of duplicate oil pathways in polyploid cotton”; \$180,000; 10/10-9/14  
National Science Foundation - "Evolution of duplicated pathways and networks following genome doubling,"; \$557,746; 9/1/11 – 8/31/14  
Cotton Incorporated – “Comparative evolutionary proteomics of cotton”; \$25,000; 1/12-1/13  
Cotton Incorporated – “Genomic consequences of polyploidy in two agronomically important cotton” species; \$50,000; 8/12 – 7/13  
Partner University Fund – “Ecological genomics and epigenomics of polyploidy”; \$240,000 (co-PI with M. Ainouche), \$120,000 to ISU; 1/1/13-12/31/15  
Cotton Incorporated – “Centromere repeats within and among chromosomes and evolutionary dynamics in *Gossypium*”; \$50,000; 1/1/13 – 12/31/13  
Cotton Incorporated - “Comparative evolutionary proteomics of cotton”; \$15,000; 1/1/13 – 12/31/13;  
Cotton Incorporated - “Investigating Centromere Evolution in Diploid and Polyploid Plants in the Cotton Genus, *Gossypium*”; \$22,000; 1/1/14 – 12/31/14  
National Science Foundation – “Multilocus phylogenetics and species delimitation using sequence-capture and next-gen sequencing and its application in *Adansonia* (Malvaceae)”; \$670,384 (\$303,083 to ISU); 6/1/14 – 5/31/17  
Cotton Incorporated – “Evolution of the domesticated cotton fiber”; 1/1/2015 – 12/31/2015; \$50,000  
Cotton Incorporated - “Investigating Centromere Evolution in Diploid and Polyploid Plants in the Cotton Genus, *Gossypium*”; \$22,000; 1/1/15 – 12/31/15  
National Science Foundation – “Conference: Evolution of Plant Phenotypes, from Genomes to Traits to be held in Barcelona, Spain on March 17-18, 2015”; \$5000; 2/1/2015 to 1/31/2016.  
Cotton Incorporated - “Centromere Repeats Within and Among Chromosomes and Evolutionary Dynamics”; \$17,500; 1/1/16 – 12/31/16  
Cotton Incorporated – “Evolution of the domesticated cotton fiber”; 1/1/2016 – 12/31/2016; \$50,000

### Invited Seminars and Symposia

European Quality Assurance Workshop, Pioneer Hi-Bred, Inc., Des Moines, June, 1987.  
Research seminar, Ecology and Evolutionary Biology, ISU, Fall, 1987  
Cold Spring Harbor symposium, November, 1988.  
Research seminar, Texas A&M University, March, 1989  
Research seminar, University of North Dakota, September, 1989  
Research seminar, Iowa State University, September, 1989  
Research seminar, Miami University, October, 1989  
National Academy of Sciences Workshop, Univ. California at Irvine, January, 1990  
Research seminar, Life Science Symposium, ISU, March, 1990  
Research seminar, Rancho Santa Ana Botanic Garden, December, 1990  
Research seminar, University of Arizona, February, 1991  
Research seminar, University of Georgia, April, 1991

Research seminar, University of Minnesota, November, 1991  
Symposium speaker, Botanical Society of America, Honolulu, August, 1992  
Research seminar, University of California at Riverside, April, 1992  
Research seminar, Texas Tech University, November, 1992  
Research seminar, University of Arkansas, November, 1992  
Symposium speaker, National Cotton Council, New Orleans, January, 1993  
Research seminar, University of Kansas, November, 1993  
Research seminar, William Jewell College, November, 1993  
Research seminar, ISU Interdepartmental Genetics series, January, 1994  
Research seminar, University of British Columbia, March, 1994  
Symposium speaker, Rancho Santa Ana Botanic Garden, Claremont, CA, May, 1994  
Symposium speaker, 4th International Congress of Plant Molecular Biology, Amsterdam, June 1994  
Research seminar, Oregon State University, November, 1994  
Research seminar, Cold Spring Harbor Laboratory, November, 1994  
Symposium speaker, University of Morelos, Mexico, February, 1995  
Research seminar, Texas A&M University, February, 1995  
Symposium speaker, Midcontinent Section of BSA and AAAS, Norman, OK, May, 1995  
Symposium speaker, Crop Science Society of America, St. Louis, November, 1995  
Research seminar, University of Texas, February, 1996  
Research seminar, ISU Plant Breeding Seminar series, March, 1996  
Research seminar, Ohio State University, May, 1996  
Research seminar, Cornell University, November, 1996  
Symposium speaker, University of Georgia, December, 1996  
Research seminar, University of Nebraska at Omaha, February, 1997  
Research seminar, Weizmann Institute of Science, Rehovot, Israel, January, 1998  
Research seminar, Tel Aviv University, Israel, January, 1998  
Research seminar, Weizmann Institute of Science, Rehovot, Israel, February, 1998  
Symposium speaker, Mid-Atlantic Plant Molecular Biology Society, Laurel, MD, July 1998  
Symposium speaker, International Organization of Plant Biosystematists, Amsterdam, August, 1998.  
University Lecturer, Univ. Wisconsin, October, 1998.  
Research seminar, University of Missouri, December, 1998.  
Research seminar, University of California at Davis, February, 1999.  
Research seminar, Harvard University, April, 1999.  
Plenary speaker, Southern Illinois University, Symposium, April, 1999.  
Research seminar, University of Iowa, May, 1999.  
Symposium speaker, International Botanical Congress, St. Louis, July, 1999.  
Research seminar, ISU Interdepartmental Genetics series, August, 1999.  
Research seminar, Oberlin College, November, 1999.  
Research seminar, Washington State University, November, 1999.  
President's Symposium, American Society of Plant Physiologists, San Diego, July, 2000  
Symposium speaker, GenomeEvolution in Polyploids, Kyoto, Japan, October, 2000.  
Symposium speaker, Crop Science Society of America, Minneapolis, MN, November, 2000.  
Symposium speaker, Plant and Animal Genome Conference, San Diego, January 2001  
Research seminar, Indiana University, March, 2001.  
Plenary symposium, Botanical Society of America, Albuquerque, August, 2001  
Research seminar, Clemson University, November 2001  
Research seminar, University of New Hampshire, December 2001  
Symposium speaker, Plant and Animal Genome Conference, San Diego, January 2002  
Research seminar, Rancho Santa Ana Botanic Garden, February, 2002  
Research seminar, Duke University, March 2002

Research seminar, ISU Interdepartmental EEB series, August, 2002  
Symposium speaker, Leiden, the Netherlands, Nov. 2002  
Research seminar, University of Arizona, Tucson, February 2003  
Research seminar, Washington University, March 2003  
Research seminar, Haverford College, March 2003  
Symposium speaker, International polyploidy conference, London, April 2003  
Research seminar, University of Rennes, Brittany, France, May 2003  
Symposium speaker, Plant Speciation, Antigonish, Nova Scotia, June 2003  
Research seminar, Johns Hopkins, April, 2004  
Symposium speaker, Cold Spring Harbor, April, 2004  
Symposium speaker, Seattle, July, 2004  
Graduate student selected speaker, Bailey Hortorium, Cornell University, October 2004  
Research seminar, Texas A&M University, November, 2004  
Symposium speaker, University of Washington, November, 2004  
Research seminar, University of Miami, January 2005  
Keynote speaker, International Botanical Congress, Vienna, July 2005  
Symposium speaker, Roscoff, France, September, 2005  
Research seminar, Kansas State University, Manhattan, October, 2005  
Research seminar, University of Guelph, March, 2006  
Symposium speaker, Linnean Society of London, August, 2006  
Research seminar, University of Minnesota, October, 2006  
Research seminar, Indiana University, April, 2007  
Symposium speaker, Beijing, May 2007  
Research seminar, Bayer Crop Sciences, Gent, Belgium, June 2007  
Research seminar, University of Rennes, Brittany, France, June 2007  
Research seminar, Brigham Young University, September 2007  
Research seminar, University of British Columbia, September, 2007  
Symposium speaker, Cold Spring Harbor, October, 2007  
Symposium speaker, Botanical Society of America, Polyploidy symposium, July, 2008  
Research seminar, Grinnell College, November, 2008  
Plenary speaker, Plant and Animal Genome Conference, San Diego, January, 2009  
Research seminar, New Mexico State University, February, 2009  
Research seminar, North Carolina State University, March, 2009  
Workshop speaker, Epigenetics in Ecology and Evolution, NESCENT, March 2009  
Research seminar, University of Northern Iowa, April, 2009  
Symposium speaker, International Polyploidy Conference, St. Malo, France, May, 2009  
Symposium organizer and speaker, Int. Congress of Plant Mol. Biology, October, 2009  
Research seminar, Iowa State University, November, 2009  
Plenary speaker, Ecological Genomics Symposium, November 2009  
Research seminar, University of Georgia, March, 2010  
Research seminar, University of Massachusetts, April, 2010  
Research seminar, University of Iowa, February, 2011  
Research seminar, University of Florida, March, 2011  
Symposium speaker, Plant Biology Symposium, Penn State, May, 2011  
Plenary speaker, International Botanical Congress, Melbourne, Australia, July 2011  
Symposium speaker, European Society for Evol. Biology, Tuebingen, Germany, August, 2011  
Research seminar, University of Illinois, September, 2011  
Research seminar, Institute of Biodiversity and Ecosystem Dynamics (IBED), University of Amsterdam, October, 2011  
College of Liberal Arts and Sciences Dean's Lecture, Iowa State University, November, 2011

Research seminar, Monsanto, Inc., St. Louis, December, 2011  
Research seminar, University of Wisconsin, March, 2012  
Research seminar, University of Kansas, April, 2012  
Symposium speaker, International Polyploidy Conference, Prague, May, 2012  
Research seminar, Universite de Rennes, France, May, 2012  
Symposium speaker, Botanical Society of America, Columbus, July 2012  
Research seminar, University of Nebraska, October, 2012  
Plenary speaker, International Cotton Genomics Initiative, Raleigh, October, 2012  
Symposium speaker, Domestication session, Plant and Animal Genome Conference, January 2013  
Research seminar, University of Southern California, February, 2013  
Research seminar, University of Rennes, France, February, 2013  
Symposium speaker, Society for Molecular Biology and Evolution, Chicago, July, 2013  
Colloquium speaker, Botanical Society of America, New Orleans, July, 2013  
Conference speaker, Genome Dynamics, Banyuls, France, September, 2013  
Symposium speaker, Molecular Evolution Conference, Marseilles, September, 2013  
Research seminar, Cornell University, October, 2013  
Research seminar, Hudson Alpha Institute, December, 2013  
Research seminar, University of Kentucky, February, 2014  
Research seminar, IPK Gatersleben, Germany, May, 2014  
Research seminar, Texas Tech University, September, 2014  
Research seminar, CRAG institute, Barcelona, October, 2014  
Research seminar, University of Arizona, Feb., 2015  
Symposium speaker, Royal Society of London, June, 2015  
University of British Columbia, Vancouver, September, 2015  
Keynote speaker, Mendel's Legacy: 150 Years of the Genius of Genetics, Brno, September, 2015  
Ron Phillips Plant Genetics Lecture, Crop Science Soc. America, Minneapolis, November, 2015  
Symposium speaker, American Society of Agronomy, Minneapolis, November, 2015  
Seminar Speaker, Institut für Populationsgenetik, Vienna, Austria, December, 2015  
Seminar Speaker, Universite de Rennes, France, December, 2015  
Seminar Speaker, East Carolina University, March, 2016

## Honors and Awards

*Outstanding Achievement in Research*, Iowa State University, 1999  
*Master Teacher*, College of Liberal Arts and Sciences, Iowa State University, 2005  
*Outstanding Achievement in Departmental Leadership*, Iowa State University, 2009  
*Fellow, American Association for the Advancement of Science*, 2010  
*Outstanding Contributions to Cotton Genomics award, ICGI*, 2012  
*Distinguished Professor*, Iowa State University, 2012  
*Cotton Biotechnology Award*, Cotton Incorporated, 2013  
*Distinguished Fellow of the Botanical Society of America*, 2015  
*Distinguished Scholar, Crop Science Society of America*, 2015

## Publications

Wendel, J.F. and C.R. Parks. 1979. The application of electrophoresis to taxonomic and breeding problems in *Camellia*. *Camellia Journal* 34: 39-41.  
Wendel, J.F. 1980. Enzyme extraction from a tannin-rich plant. *Isozyme Bulletin* 13:116.

- Wendel, J.F. and C.R. Parks. 1982. Genetic control of isozyme variation in *Camellia japonica* L. (Theaceae). *Journal of Heredity* 73: 197-204.
- Parks, C. R., N. G. Miller, J. F. Wendel and K. M. McDougal. 1983. Genetic divergence in the genus *Liriodendron*. *Annals of the Missouri Botanical Garden* 70: 658-666.
- Wendel, J.F. and C.R. Parks. 1982. Cultivar characterization and nomenclatural clarification by protein electrophoresis in *Camellia japonica* L. *American Camellia Society Yearbook* 37: 19-32.
- Wendel, J.F. 1983. Electrophoretic analysis of genetic variation in wild and cultivated *Camellia japonica* L. Ph.D. dissertation. University of North Carolina, Chapel Hill.
- Cardy, B.J., C.W. Stuber, J.F. Wendel, and M.M. Goodman. 1983. Techniques for starch gel electrophoresis of enzymes from maize (*Zea mays* L.). 2nd revised edition. Institute of Statistics Mimeograph Series no. 1317R, North Carolina State University.
- Suiter, K.A., J.F. Wendel and J.S. Case. 1983. LINKAGE-1, a computer program for the analysis of genetic segregation data. *Journal of Heredity* 74: 203-204.
- Wendel, J.F. and C.R. Parks. 1983. Cultivar identification in *Camellia japonica* L. using allozyme polymorphisms. *Journal of the American Society of Horticultural Science* 108:290-295.
- Wendel, J.F. 1984. Electrophoretic identification of polyploid *Camellia japonica* cultivars and evidence for their sexual origin. *Plant Systematic and Evolution* 145: 223-226.
- Wendel, J.F. and C.R. Parks. 1984. Distorted segregation and linkage of alcohol dehydrogenase genes in *Camellia japonica* L. (Theaceae). *Biochemical Genetics* 22: 739-748.
- Wendel, J.F. and C.W. Stuber. 1984. Plant Isozymes: Enzymes studied and buffer systems for their electrophoretic resolution in starch gels. *Isozyme Bulletin* 17:4-11.
- Wendel, J.F. and C.R. Parks. 1985. Genetic diversity and population structure of *Camellia japonica* L. (Theaceae). *American Journal of Botany* 72: 52-65.
- Wendel, J.F., C.W. Stuber, and M.M. Goodman. 1985. Twelve new isozyme loci in maize: Progress report on chromosomal locations, and the subunit composition and subcellular localization of their products. *Maize Genetics Cooperation News Letter* 59:87-88.
- Wendel, J.F., C.W. Stuber, and M.M. Goodman. 1985. Linkage relationships between a hexokinase locus and previously assigned loci on chromosome six. *Maize Genetics Cooperation News Letter* 59: 89-90.
- Wendel, J.F., C.W. Stuber, and M.M. Goodman. 1985. Localization of two new isozyme loci, *Hex1* and *Tpi4*, to chromosome 3. *Maize Genetics Cooperation News Letter* 59:88.
- Wendel, J.F., C.W. Stuber, and M.M. Goodman. 1985. Mapping data for 34 isozyme loci currently being studied. *Maize Genetics Cooperation News Letter* 59:90.
- Wendel, J.F. and J.B. Beckett. 1986. Further localization of *Tpi4* near the centromere on the long arm of chromosome 3. *Maize Genetics Cooperation News Letter* 60:119
- Wendel, J.F., C.W. Stuber, and M.M. Goodman. 1986. Additional mapping experiments with maize isozyme loci. *Maize Genetics Cooperation News Letter* 60:120-122.
- Wendel, J.F., C.W. Stuber, M.D. Edwards, and M.M. Goodman. 1986. Duplicated chromosome segments in *Zea mays* L.: Further evidence from hexokinase isozymes. *Theoretical and Applied Genetics* 72: 178-185.
- Edwards, M.D., C.W. Stuber, and J.F. Wendel. 1987. Molecular marker facilitated investigations of quantitative trait loci in maize: I. Numbers, genomic distribution, and types of gene action. *Genetics* 116: 113-125.
- Stuber, C.W., M.D. Edwards, and J.F. Wendel. 1987. Molecular marker facilitated investigations of quantitative trait loci in maize: II. Factors influencing yield and its component traits. *Crop Science* 27: 639-648.
- Wendel, J.F., M.D. Edwards, and C.W. Stuber. 1987. Evidence for multilocus genetic control of preferential fertilization in maize. *Heredity* 58: 297-301.
- Wendel, J. F. and J. B. Beckett. 1987. A new isozyme marker for the short arm of chromosome 6. *Maize Genetics Cooperation News Letter* 61:19.



- Sisco, P.H., J.F. Wendel, and C.W. Stuber. 1987. *Acp4* is the most distal marker on chromosome 1L. *Maize Genetics Cooperation News Letter* 61:86.
- Doebley, J.F., J.F. Wendel, S.C. Smith, C.W. Stuber, and M.M. Goodman. 1988. The origin of cornbelt maize: the isozyme evidence. *Economic Botany* 42: 120-132.
- Wendel, J.F., M.M. Goodman, C.W. Stuber, and J.B. Beckett. 1988. New isozyme systems for maize (*Zea mays* L.): Aconitate hydratase, adenylate kinase, NADH dehydrogenase, and shikimate dehydrogenase. *Biochemical Genetics* 26: 421-445.
- Stuber, C.W., J.F. Wendel, M.M. Goodman, and J.S.C. Smith. 1988. Techniques and scoring procedures for starch gel electrophoresis of enzymes from maize (*Zea mays* L.). *North Carolina State Experiment Station Technical Bulletin* 286. North Carolina State University, Raleigh. 87pp.
- Pleasant, J.P. and J.F. Wendel. 1989. Genetic diversity in a clonal narrow endemic, *Erythronium propullans*, and its widespread progenitor, *E. albidum*. *American Journal of Botany* 76: 1136-1151.
- Weeden, N.F. and J.F. Wendel. 1989. Genetics of Plant Isozymes. In: D.E. Soltis and P.M. Soltis (eds.), *Isozymes in Plant Biology*, pp 46-72. Dioscorides Press, Portland, Oregon.
- Wendel, J.F. 1989. New World tetraploid cottons contain Old World cytoplasm. *Proceedings of the National Academy of Science USA* 86: 4132-4136.
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