

## Paul G. Wolf - Curriculum Vitae

**Address:** Department of Biology, Utah State University, Logan, UT 84322  
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**Education:** Post doctoral researcher, University of California, Irvine: 1990-1991  
Ph.D. Botany, Washington State University: 1990.  
M.A. Botany (honors), University of Kansas: 1986.  
B.Sc. Biological Sciences (honors), University of Leicester: 1982.

### Professional experience:

Organized workshop on Genomics and Bioinformatics - ShaanXi Normal University in Xi'an, China  
Director, Intermountain Herbarium; 2016 – present  
Associate Head, Department of Biology, Utah State University: 2014 – present  
Professor, Department of Biology, Utah State University: 2005 – present  
Sabbatical Visitor, University of Florida, 2014.  
Sabbatical Visitor, Duke University, 2013  
Research visitor, National Institute for Basic Biology, Okazaki Japan, Sept.-Dec. 2003.  
Sabbatical visitor, Université Joseph Fourier, France, 1999 – 2000.  
Associate Professor, Department of Biology, Utah State University: 1998 - 2005.  
Assistant Professor, Department of Biology, Utah State University: 1992 - 1998.  
Post-doctoral Researcher, Washington State University: 1991-1992  
Post-doctoral Research Associate, University of California, Irvine: 1990-1991.  
Research assistant, Teaching assistant, Washington State University: 1986-1990.  
Teaching assistant, University of Kansas: 1983-1986.

### Awards and Honors:

Utah State University Mortar Board, Top Professor, 1998  
Washington State University Summer Research Assistantship, 1989.  
Hannah Aase Fellowship, Washington State University, 1986.  
Graduated with honors, University of Kansas, 1986.  
Graduated with honors, University of Leicester, 1982.

### Grants:

2017: US Fish and Wildlife: \$13,985. *Eriogonum soledium* ESA status.  
2016: United States Army Corps of Engineers: \$23,934 - *Lepidium* Phylogeny  
2015: United States Army Corps of Engineers: \$78,671 – Genomics of wetland plants  
2015: Recruitment Program of High-end Foreign Experts of the Chinese State Administration of Foreign Expert Affairs. Funded Research and workshop organization in Xi-An, China.  
2013: Mary Gunson Memorial Fund: \$24,000. Origins of Galapagos *Pteridium*.  
2012: US Fish and Wildlife: \$80,000. *Eriogonum corymbosum* range study  
Nevada Division of Forestry: \$7827. *Eriogonum corymbosum* range study  
2010: National Science Foundation (Program: DR K-12) \$2,489,331 (2010 – 2015); co-PI.  
2009: US Forest Service \$99,200 – Collaborative Aspen transcriptome project with K. Mock et al.  
US Forest Service \$14,000  
2005: National Science Foundation, supplement : \$12,500 (2003)  
US Fish and Wildlife \$21,000 (2005 – 2007)  
2003: Japanese Ministry (MEXT) : ¥1,840,000 (~ US\$17,000)  
National Science Foundation, supplement : \$14,311  
US Fish and Wildlife \$25,000 (2002 – 2007)  
2002: National Science Foundation \$306,000 (2002 – 2007)  
Utah State CURI Award \$34,500 (2002 – 2003)  
US Fish and Wildlife \$24,869 (2002 – 2007)  
2001: Utah State Mineral Lease Grant: \$25,000.  
Utah State University Biotechnology Center Challenge Grant: \$50,000  
1998: Nature Conservancy, Nevada: \$29,904 1998 - 2000  
1997: National Science Foundation, Dissertation Improvement Grant, \$10,000 (1997 – 1999)

- National Science Foundation: REU supplement, \$5,000
- 1996: National Science Foundation: \$94,990 (1996 – 1999)  
National Park Service: \$960 (with Laura Hickerson)
- 1994: Challenge Cost Share agreement with BLM: \$5,000 (+\$6,000 in 1997)  
National Science Foundation: travel supplement, \$2,000 + \$2,400 in 1995
- 1993: Challenge Cost Share agreement with BLM: \$6,300  
Utah State University Faculty Research Grant: \$14,614  
National Science Foundation: \$182,615 (1993 – 1996)  
Eccles Foundation (with E. E. Hood): \$62,824  
NATO Collaborative Research Grant (with E. Sheffield), 200,000 Belgian F (\$5600)
- 1992: United States Forest Service (1992): \$6,000 + Challenge Cost Share agreement with BLM: \$2,000  
Utah State University Faculty Research Grant: \$12,821
- 1988: NSF Doctoral Dissertation Improvement Grant (awarded with P.S. Soltis): \$8,250.

#### **Non peer-reviewed articles**

4. Wolf, P. G. 2001. Plasmid DNA the high throughput way. *The Scientist* **15**: 21-26.
3. Wolf, P. G. 2001. Profile: Buying used lab equipment. *The Scientist* **15**: 27-28
2. Wolf, P. G. 2001. Number crunching: Statistical analysis software aids data interpretation. *The Scientist* **15**: 22-26
1. Sinclair, R. B. and P. G. Wolf. 2000. A thousand points of light: novel fluorescent probes, tags, and molecular beacons. *The Scientist* **14**: 19-22

#### **Book Chapters:**

10. Wolf, P. G. and K. G. Karol. **2012**. Plastomes of bryophytes, lycophytes and ferns. Pages 89 – 102 *In Advances in Photosynthesis and Respiration*. Vol 35. "Genomics of chloroplasts and mitochondria". Editors: Ralph Bock & Volker Knoop. Springer, Dordrecht.
9. Wolf, P. G. **2012**. Plastid genome diversity. Pages 145-154. *In "Plant Genome Diversity"* by Edited by Johann Greilhuber, Jonathan Wendel, Ilia J. Leitch, Jaroslav Dolezel. Springer Verlag.
8. Wolf, P.G. and J. M. Roper. **2008**. Structure and evolution of fern plastid genomes. In: "Biology and Evolution of Ferns and Lycophytes" Edited by Tom A. Ranker and Christopher H. Haufler (Cambridge University Press)
7. Smith, A. R., K. M. Pryer, E. Schuettpelz, P. Korall, H. Schneider, & P. G. Wolf. **2008**. Fern Classification. In: "Biology and Evolution of Ferns and Lycophytes" Edited by Tom A. Ranker and Christopher H. Haufler (Cambridge University Press)
6. Schneider, H., K. M. Pryer, R. Cranfill, A. R. Smith, P. G. Wolf. **2002**. Phylogeny of vascular plants and the evolution of their body plans. *In Developmental Genetics and Plant Evolution*. Q. Cronk, R. M. Bateman, J. A. Hawkins (Eds.) Taylor and Francis, London.
5. Wolf, P. G., K. M. Pryer, A. R. Smith, and M. Hasebe. **1998**. Phylogenetic studies of extant pteridophytes. In: *Molecular Systematics of Plants*, Second Edition. P. S. Soltis, D. E. Soltis, J. J. Doyle (Eds). Chapman and Hall, pp 541-556.
4. Wolf, P. G. 1996. Pteridophyte phylogenies based on analyses of DNA sequences: A multiple gene approach. (Book Chapter). In *Pteridology in Perspective*. **1996**. J.M. Camus, M. Gibby and R.J. Johns (eds). pp 203 - 215. Royal Botanic Gardens, Kew.
3. Wolf, P. G., E. Sheffield and J. A. Thomson and R. B. Sinclair. **1995**. Chapter 3. Bracken taxa in Britain: a molecular analysis. Chapter 3 (pp. 16-20) *in "Bracken: An Environmental Issue"* Eds.: R. T. Smith and J. A. Taylor. University of Leeds.
2. Sheffield, E., P.G. Wolf and T. A. Ranker. **1995**. Genetic analysis of bracken in the Hawaiian Islands. Chapter 5 (pp. 29-32). *in "Bracken: An Environmental Issue"*. Eds.: R. T. Smith and J. A. Taylor. University of Leeds.
1. Sheffield, E., P. G. Wolf, C. H. Haufler. 1986. *Pteridium herediae*: A dangerous diploid bracken? In: *Bracken - Ecology, land use and control technology*. R. T. Smith and J. A. Taylor (eds.). Parthenon Publishing Group.

#### **Peer-reviewed journal articles: \* denotes graduate student; & denotes undergrad**

80. Cai S, G Chen, Y Wang, Y Huang, DB Marchant, Y Wang, Q Yang, F Dai, A Hills, PJ Franks, E Nevo, DE Soltis, PS Soltis, E Sessa, PG Wolf, D Xue, G Zhang, BJ Pogson, MR Blatt, Z-H Chen. **2017**. Evolutionary conservation of ABA signaling for stomatal closure in ferns. *Plant Physiology* **174**: 732-747. doi:10.1104/pp.16.01848

79. The Pteridophyte Phylogeny Group I. **2016**. A community-derived classification for extant lycophytes and ferns. *Journal of Systematics and Evolution*. 54: 563–603.
78. Longhurst ML, DC Coster, PG Wolf, AM Duffy, H Lee, DT Campbell. **2016**. Multi-year professional development grounded in educative curriculum focused on integrating technology with reformed science teaching principles. *School Science and Mathematics* 116: 430-441
77. Wolf PG, Rowe CA, Der JP, Schilling MP, Visger CJ, Thomson J. **2015**. Origins and diversity of a cosmopolitan fern genus on an island archipelago. *AoB Plants* 7: plv118; DOI: 10.1093/aobpla/plv118
76. Wolf PG, Sessa EB, Marchant DB, Li F-W, Rothfels CJ, Sigel EM, Gitzendanner MA, Visger CJ, Banks JA, Soltis DE, Soltis PS, Pryer KM, Der JP. **2015**. An exploration into fern genome space. *Genome Biology and Evolution* 7: 2533-2544.
75. Ellis MW, PG Wolf, S Bardot, & JA Walton, CA Rowe, S Kulpa, and KA Mock. **2015**. Further Examination of the Geographic Range of *Eriogonum corymbosum* var. *nilesii* (Polygonaceae). *Phytotaxa* 203: 279–286.
74. Sessa, E.B., J.A. Banks, M.S. Barker, J.P. Der, A.M. Duffy, S.W. Graham, M. Hasebe, J. Langdale, F.W. Li, D.B. Marchant, K.M. Pryer, C.J. Rothfels, S.J. Roux, M.L. Salmi, E.M. Sigel, D.E. Soltis, P.S. Soltis, D.W. Stevenson, and P.G. Wolf. **2014**. Between two fern genomes. *GigaScience* 3: 15.
73. Schilling, M., Wolf, P. G., Duffy, A. M., Rai, H. S., Rowe, C.A., Richardson, B. A., Mock, K. E. **2014**. Genotyping-by-sequencing for *Populus* population genomics: an assessment of genome sampling patterns and filtering approaches. *PLoS One* 9: e95292.
72. Campbell, T. D., B. A. ZuWallack, D.T, M. Longhurst, B. Shelton, P. G. Wolf. **2014**. An examination of the changes in science teaching orientations and technology-enhanced tools for student learning in the context of professional development. *International Journal of Science Education*. 36: 1815-1848.
71. Davidson, J. B. S. L. Durham, and P. G. Wolf. **2014**. Breeding system of the threatened endemic, *Primula cusickiana* var. *maguirei* (Primulaceae). *Plant Species Biology* 29: e55-e63.
70. Rai, H. S., K. E. Mock, B. A. Richardson, R. C. Cronn, K. J. Jayden, J. W. Wright, B. J. Knaus, P. G. Wolf. **2013**. Transcriptome characterization and detection of gene expression differences in aspen (*Populus tremuloides*). *Tree Genetics and Genomes* 9: 1031-1041. DOI: 10.1007/s11295-013-0615-y.
69. Mock, K. E., B. A. Richardson, and P. G. Wolf. **2013**. Molecular tools and aspen management: a primer and prospectus. *Forest Ecology and Management* 299: 6-13
68. \*Duffy, A. M., Wolf, P. G., Barrow, J., Longhurst, M., Campbell, D.T. & Beckett, H. **2013**. Ecological investigations within an interactive plant community simulation. *Science Scope* 36(8): 42-51.
67. Campbell, D.T., Longhurst, M., \*Duffy, A. M, Wolf, P. G., & Shelton, B. E. **2013**. Science teaching orientations and technology-enhanced tools for student learning in science. *Research in Science Education*. 43:2035–2057
66. Campbell, D.T., Longhurst, M., \*Duffy, A. M., Wolf, P. G., & Nagy, R. **2012**. Investigating human impact in the environment with faded scaffolded inquiry supported by technologies. *Science Activities*. 49: 4
65. Mock, K.E., \*Callahan, C.M., Islam-Faridi, M.N., Shaw, J.D., Rai, H.S., Sanderson, S.C., Rowe, C.A., Ryel, R.J., Madritch, M.D., \*Gardner, R.S., Wolf, P.G., **2012**. Widespread triploidy in western North American aspen (*Populus tremuloides*). *PLoS ONE* 7(10): e48406. doi:10.1371/journal.pone.0048406
64. Campbell, D. T, P. G. Wolf, \*J. P. Der, E. Pakenham, and N. Abd-Hamid. **2012**. Scientific inquiry in the genetics laboratory: biologists and university science teacher educators collaborating to increase engagement in science process. *Journal of College Science Teaching* 42: 82-89.
63. \*Davidson, J. B. and P. G. Wolf. **2011**. Natural history of Maguire primrose, *Primula cusickiana* var. *maguirei* (Primulaceae). *Western North American Naturalist* 71: 327 - 337.
62. Banks, J. A., T. Nishiyama, M. Hasebe, J. L. Bowman, M. Gribskov, C. dePamphilis, P. G. Wolf et al. **2011**. The Selaginella genome identifies changes in gene content associated with the evolution of vascular plants. *Science* 332: 960-963. DOI: 10.1126/science.1203810.
61. \*Der, J. P., M. S. Barker, N. J. Wickett, C. W. dePamphilis, P. G. Wolf. **2011**. De novo characterization of the gametophyte transcriptome in bracken fern, *Pteridium aquilinum*. *BMC Genomics* 12: 99. doi:10.1186/1471-2164-12-99.
60. Wolf P.G., Der J.P., \*Duffy A.M., \*Davidson J.B., Grusz A.L., Pryer K.M. **2011**. The evolution of chloroplast genes and genomes in ferns. *Plant Molecular Biology* 76: 251-261. DOI 10.1007/s11103-010-9706-4.
59. Karol, K. G., Arumuganathan, K., Boore, J. L., \*Duffy, A. M., Everett, K. D. E., Hall, J. D., & Hansen, S. K., Kuehl, J. V., Mandoli, D. F., Mishler, B. D., Olmstead, R. G., Renzaglia, K. S., Wolf, P. G. **2010**. Complete plastome sequences of *Equisetum arvense* and *Isoetes flaccida*: implications for phylogeny and plastid genome evolution of early land plant lineages. *BMC Evol. Biol.* 10: 321.

58. Campbell, D. T., S. W. Wang, H-Y. Hsu, \*A. M. Duffy, and P. G. Wolf. **2010**. Learning with Web Tools, Simulations, and Other Technologies in Science Classrooms. *Journal of Science Education and Technology* 19:505-511.
57. Wolf, P. G., \*Roper, J. M., \*Duffy, A. M. **2010**. The evolution of chloroplast genome structure in ferns. *Genome* 53: 731-738.
56. Oliver, M. J., A. G. Murdock, B. D. Mishler, J. V. Kuehl, J. L. Boore, D. F. Mandoli, K. D. E. Everett, P. G. Wolf, \*A. M. Duffy, K. G. Karol. **2010**. Chloroplast genome sequence of the moss *Tortula ruralis*: gene content, polymorphism, and structural arrangement relative to other green plant chloroplast genomes. *BMC Genomics* 2010, 11:143
55. Barker, M. S. and P. G. Wolf. **2010**. Unfurling fern biology in the genomics age. *BioScience* 60(3): 177-185.
54. \*Ellis, M. W. and P. G. Wolf. **2010**. Teaching Species. *Evolution: Education and Outreach* 3: 89-98.
53. Wolf, P. G., \*A. M. Duffy, and \*J.M. Roper. 2009. Phylogenetic use of inversions in fern chloroplast genomes. *American Fern Journal* 99:132-133.
52. \*Ellis, M. W., \*J. M. Roper, &R. Gainer, \*J. P. Der, and P. G. Wolf. **2009**. The taxonomic designation of *Eriogonum corymbosum* var. *nilesii* (Polygonaceae) is supported by AFLP and cpDNA analyses. *Systematic Botany* 34: 693-703.
51. \*Duffy, A. M., S. A. Kelchner, and P. G. Wolf. **2009**. Conservation of selection on *matK* following an ancient loss of its flanking intron. *Gene* 438: 17-25.
50. \*Der, J. P., J. A. Thomson, &J. K. Stratford & P. G. Wolf. **2009**. Global chloroplast phylogeny and biogeography of bracken (*Pteridium*: Dennstaedtiaceae). *American Journal of Botany* 96: 1041-1049.
49. \*Bjerregaard, L. and P. G. Wolf. 2008. Strong genetic differentiation among neighboring populations of a locally endemic primrose. *Western North American Naturalist* **68**: 66-75.
48. Wickett, N. J. , Y. Zhang, &S. K. Hansen, \*J. M. Roper, J. V. Kuehl, S. A. Plock, B. Goffinet, P. G. Wolf, C. W. dePamphilis, Jeffrey L. Boore. **2008**. Functional gene losses occur with minimal size reduction in the plastid genome of the parasitic liverwort *Aneura mirabilis*. *Molecular Biology and Evolution* **25**: 393-401.
47. \*Roper, J.M., &S.K. Hansen, P.G. Wolf , K.G. Karol KG, D.F. Mandoli, K.D.E. Everett, J. Kuehl, J.L. Boore. **2007**. The Complete Plastid Genome Sequence of *Angiopteris evecta* (G. Forst.) Hoffm. (Marattiaceae). *American Fern Journal* 97 (2): 95-106
46. Smith, A. R., K. M. Pryer, E. Schuettpelz, P. Korall, H. Schneider & P. G. Wolf. **2006**. A classification for extant ferns. *Taxon* 55 (3): 705-731
45. Wolf, P.G, K.G. Karol, D. F. Mandoli, J. Kuehl, K. Arumuganathan, \*M. W. Ellis, B. D. Mishler, D. G. Kelch, R. G. Olmstead, J. L. Boore. **2005**. The first complete chloroplast genome sequence of a lycophyte, *Huperzia lucidula* (Lycopodiaceae). *Gene* 350: 117-128.
44. Wolf, P. G., C. A. Rowe, M. Hasebe. 2004. High levels of RNA editing in a vascular plant chloroplast genome: analysis of transcripts from the fern *Adiantum capillus-veneris*. *Gene* **339**: 89-97
43. Pryer, K. M., E. Schuettpelz, P. G. Wolf, H. Schneider, A. R. Smith, R. Cranfill,. 2004. Phylogeny and evolution of ferns (monilophytes) with a focus on the early leptosporangiate divergences. *American Journal of Botany* **91**: 1557-1581
42. Nishiyama, T., M. Kugita, R. B. Sinclair, M. Sugita, C. Sugiura, T. Wakasugi, P. G. Wolf, K. Yamada, K. Yoshinaga, and M. Hasebe. 2004. Bryophytes are monophyletic and land plants comprise two extant lineages. *Molecular Biology and Evolution*, **21** (10): 1813-1819
41. Wolf, P. G., B. Doche, L. Gielly and P. Taberlet. 2004. Genetic structure of *Rhododendron ferrugineum* at a wide range of spatial scales. *Journal of Heredity* **95**: 301-308
40. Wolf, P. G., C. A. Rowe, R. B. Sinclair, M. Hasebe. 2003. Complete nucleotide sequence of the chloroplast genome from a leptosporangiate fern, *Adiantum capillus-veneris* L. *DNA Research* **10** (2): 59-64.
39. \*Rowe, D. L., M. T. Murphy, R. C. Fleischer, and P. G. Wolf. 2001. High frequency of extra-pair paternity in Eastern Kingbirds. *Condor* **103**: 845-851.
38. \*Sipes, S. D. and P. G. Wolf. 2001. Phylogenetic relationships within *Diadasia*, a group of specialist bees. *Molecular Phylogenetics and Evolution* **19**: 144-156.
37. Smith, A. R., H. Tuomisto, K. M. Pryer, J. S. Hunt, P. G. Wolf. 2001. *Metaxya lanosa*, a second species in the genus and fern family Metaxyaceae. *Systematic Botany* **26**: 480-486.
36. &Archibald J.K., P.G. Wolf, V. J. Tepedino, and J. Bair. 2001. Genetic relationships and population structure of the endangered steamboat buckwheat, *Eriogonum ovalifolium* var. *williamsiae* (Polygonaceae). *American Journal of Botany* **88**: 608-615.
35. Wolf, P. G., D. R. Campbell, N. M. Waser, \*S. D. Sipes, T. R. Toler, and &J. K. Archibald. 2001. Tests of pre- and post-pollination barriers to hybridization between sympatric species of *Ipomopsis* (Polemoniaceae). *American Journal of Botany* **88**: 213-219.

34. Wolf, P. G., H. Schneider, and T. A. Ranker. 2001. Geographic distributions of homosporous fern taxa: does dispersal obscure evidence of vicariance? *Journal of Biogeography* **28**: 263-270.
33. Pryer, K. M., H. Schneider, A. R. Smith, R. Cranfill, P. G. Wolf, J. S. Hunt, and \*S. D. Sipes. 2001. Horsetails and ferns are a monophyletic group and the closest relatives to seed plants. *Nature* **409**: 618-622.
32. Wolf, P. G., \*S. D. Sipes, &M. R. White, &M. L. Martines, K. M. Pryer, A. R. Smith, K. Uedo. 1999. Phylogenetic relationships of the enigmatic fern families Hymenophyllopsidaceae and Lophosoriaceae: evidence from *rbcL* nucleotide sequences. *Plant Systematics and Evolution* **219**: 263-270.
31. Soltis, P. S., D. E. Soltis, P. G. Wolf, D. L. Nickrent, S-M. Chaw, and R. L. Chapman. 1999. The Phylogeny of land plants inferred from 18S rDNA sequences: pushing the limits of rDNA signal? *Molecular Biology and Evolution* **16**: 1774 - 1784.
30. \*Bobowski, B. R., D. Hole, P. G. Wolf, and L. Bryant. 1999. Identification of roots of woody species using polymerase chain reaction. *Molecular Ecology* **8**: 485-491.
29. Shelly, J. S., P. Lesica, P. G. Wolf, P. S. Soltis, and D. E. Soltis. 1998. Systematic studies and conservation status of *Claytonia lanceolata* var. *flava* (Portulacaceae). *Madroño* **45**: 64-74.
28. Campbell, D. R., N. M. Waser, P. G. Wolf. 1998. Pollen transfer by natural hybrids and parental species in an *Ipomopsis* hybrid zone. *Evolution* **52**: 1602-1611.
27. \*Hickerson, L.L. and P.G. Wolf. 1998. Population genetic structure of *Arctomecon californica* Torrey & Frémont (Papaveraceae) in fragmented and unfragmented habitats. *Plant Species Biology* **13**: 21-33.
26. Kropp, B. R., D. R. Hansen, P. G. Wolf, K. M. Flint, S. V. Thomson. 1997. A study on phylogeny of the dyer's woad rust fungus and other species of *Puccinia*. *Phytopathology* **87**: 565-571.
25. Wolf, P. G. 1997. Evaluation of *atpB* nucleotide sequences for phylogenetic studies of ferns and other pteridophytes. *American Journal of Botany* **84**: 1429-1440.
24. \*Sipes, S. D. and P. G. Wolf. 1997. Clonal structure and patterns of allozyme diversity in the rare endemic *Cycladenia humilis* var. *jonesii* (Apocynaceae). *American Journal of Botany* **84**: 401-409.
23. Wolf, P. G. and R. B. Sinclair. 1997. Highly differentiated populations of the narrow endemic, Maquire primrose (*Primula maguirei*). *Conservation Biology* **11**: 375-381
22. Wolf, P. G., \*R. A. Murray, and \*S. D. Sipes. 1997. Species-independent, geographic structuring of chloroplast DNA haplotypes in a montane herb, *Ipomopsis* (Polemoniaceae). *Molecular Ecology* **6**: 283-291.
21. Perault, D. R., P. G. Wolf, and T. C. Edwards. 1997. An analysis of genetic variation and population structure in the least (*Eutamias minimus*) and Uinta (*E. imbrinus*) chipmunks. *Journal of Mammalogy* **78**: 134-145.
20. \*Lanoue, K. Z., P. G. Wolf, &S. Browning, and E. E. Hood. 1996. Phylogenetic analysis of restriction site variation in wild and cultivated *Amaranthus* species (Amaranthaceae). *Theoretical and Applied Genetics* **93**: 722-732.
19. Hasebe, M. P. G. Wolf et al. 1995. Fern phylogeny based on *rbcL* nucleotide sequences. *American Fern Journal* **85**: 134-181
18. Wolf, P. G. 1995. Phylogenetic analyses of *rbcL* and nuclear ribosomal RNA gene sequences in Dennstaedtiaceae. *American Fern Journal* **85**: 306-327
17. Wolf, P. G. and D. R. Campbell. 1995. Hierarchical analysis of allozymic and morphometric variation in a montane herb, *Ipomopsis aggregata* (Polemoniaceae). *Journal of Heredity* **86**: 386-394.
16. Wolf, P. G., P. S. Soltis, D. E. Soltis. 1994. Phylogenetic relationships of Dennstaedtioid Ferns: Evidence from *rbcL* sequence variation. *Molecular Phylogenetics and Evolution* **3**: 383-392.
15. Wolf, P. G., P. S. Soltis and D. E. Soltis. 1993. Phylogenetic significance of chloroplast DNA restriction site variation in the *Ipomopsis aggregata* complex and related species (Polemoniaceae). *Systematic Botany* **18**: 652-662
14. Sheffield, E, P. G. Wolf, F. J. Rumsey, D. J. Robson, T. A. Ranker, S. M. Challinor. 1993. Spatial distribution and reproductive behavior of a triploid bracken (*Pteridium aquilinum*) clone in Britain. *Annals of Botany* **72**: 231-237
13. Wolf, P. G. and P. S. Soltis. 1992. Estimates of gene flow among populations, geographic races, and species in the *Ipomopsis aggregata* complex (Polemoniaceae). *Genetics* **130**: 639-647.
12. Soltis, P. S., D. E. Soltis, P. G. Wolf. 1991. Allozymic and chloroplast DNA analysis of polyploidy in *Polystichum*. I. The origins of *P. californicum* and *P. scopulinum*. *Systematic Botany* **16**: 245-256.
11. Wolf, P. G., P. S. Soltis and D. E. Soltis. 1991. Genetic relationships and patterns of allozyme divergence in the *Ipomopsis aggregata* complex and related taxa (Polemoniaceae). *American Journal of Botany* **78**: 515-526.
10. Wolf, P. G., E. Sheffield and C. H. Haufler. 1991. Estimates of gene flow, genetic substructure and population heterogeneity in bracken (*Pteridium aquilinum*). *Biological Journal of the Linnean Society* **42**: 407-423.



9. Soltis, P. S., D. E. Soltis and P. G. Wolf. 1990. Allozymic divergence in North American *Polystichum* (Dryopteridaceae). *Systematic Botany* **15**: 205-215.
8. Wolf, P. G., D. E. Soltis and P. S. Soltis. 1990. Chloroplast DNA and allozymic variation in diploid and autotetraploid *Heuchera grossulariifolia* (Saxifragaceae) *American Journal of Botany* **77**: 232-244.
7. Wolf, P. G., P. S. Soltis and D. E. Soltis. 1989. Tetrasomic inheritance and chromosome pairing behavior in the naturally occurring autotetraploid *Heuchera grossulariifolia* (Saxifragaceae). *Genome* **32**: 655-659.
6. Sheffield, E., P. G. Wolf and C. H. Haufler. 1989. How big is a bracken plant? *Weed Research* **29**: 455-460.
5. Sheffield, E., P. G. Wolf, C. H. Haufler, T. A. Ranker and A. C. Jermy. 1989. A re-evaluation of plants referred to as *Pteridium herediae* (Colmeiros) Löve and Kjellquist. *Botanical Journal of the Linnean Society* **99**: 377-386.
4. Soltis, P. S., D. E. Soltis, P. G. Wolf and J. M. Riley. 1989. Electrophoretic evidence for interspecific hybridization in *Polystichum*. *American Fern Journal* **79**: 7-13.
3. Wolf, P. G., C. H. Haufler and E. Sheffield. 1988. Genetic variation and mating system of the clonal weed *Pteridium aquilinum* (L.) Kuhn (bracken). *Evolution* **42**: 1350-1355.
2. Wolf, P. G., C. H. Haufler and E. Sheffield. 1987. Electrophoretic evidence for genetic diploidy in the bracken fern (*Pteridium aquilinum*). *Science* **236**: 947-949.
1. Windham, M. D., P. G. Wolf, and T. A. Ranker. 1986. Factors affecting prolonged spore viability in herbarium collections of three species of *Pellaea*. *American Fern Journal* **76**: 141-148.

### Reports and Conference Proceedings:

- Sipes, S. D., Wolf, P. G., and V. J. Tepedino. 1996. The Pollination and reproduction of *Spiranthes diluvialis*: implications for conservation of four populations. Final report submitted to the Bureau of Land Management.
- Tepedino, V. J., J. L. Barnes, P. G. Wolf. 1995. Gene flow among rare plant populations as a measure of pollinator movement: *Mirabilis macfarlanei* (Nyctaginaceae). Annual Report of Cooperative Grasshopper Integrated Pest Management Project. USDA-APHIS, Boise, ID.
- Wolf, P. G. 1995. Use of molecular data in evolutionary studies of pteridophytes. Introduction to symposium. *American Fern Journal* **85**: 101-103.
- Barnes, J. L., P. G. Wolf, and V. J. Tepedino. 1994. Genetic diversity and gene flow: implications for the rare plant *Mirabilis macfarlanei* (Nyctaginaceae). Final report to Wallowa Whitman National Forest USDA.
- Sipes, S. D., Wolf, P. G., and V. J. Tepedino. 1992. Population genetics of *Cycladenia humilis* var. *jonesii*. Final report submitted to the Bureau of Land Management.
- Wolf, P. G., E. Sheffield and C. H. Haufler. 1990. Genetic attributes of bracken as revealed by enzyme electrophoresis. In: Bracken - Biology and management. J. A. Thomson and R.T. Smith (eds.) Australian Institute of Agricultural Science Publ, No. 40: 71-78.

### Presentations at conferences:

90 (add BSA 2017)

89. Barkworth M, Wolf PG, Kinoshian S, Dyreson C, Pearse W, Brandt B, Cobb N. 2017. The Value of Agricultural Voucher Specimens. Proceedings of TDWG, 1. e19932. <https://doi.org/10.3897/tdwgproceedings.1.19932>
88. Sessa, EB, P Szovenyi, SW Graham, D Stevenson, PG Wolf, C Rothfels, F-W Li, GK Wong, JP Der. 2015. Gametophyte vs. sporophyte dominance and accompanying changes in gene content across land plants. Presented at the Annual Meeting of the Botanical Society of America, Edmonton, Canada.
87. Wolf, PG, CA Rowe, MP Schilling, JP Der, CJ Visger, JA Thomson. 2015. Origins of the fern *Pteridium* on Galapagos Islands. Presented at the AAAS, Pacific Division, San Francisco.
86. Wolf, P.G, E. B. Sessa, J. P. Der, F-W Li, C. J. Rothfels, M. A. Gitzendanner, C. J. Visger, D. B. Marchant, D. E. Soltis, P. S. Soltis, K. M. Pryer. 2015. Skimming the surface of fern nuclear genomes. 13th Smithsonian Botanical Symposium, Smithsonian Institution, Washington DC, USA.
85. Duffy, A. M., Farrar, D. R., Wolf, P. G. 2015. Patterns of genetic variation in populations of independent gametophytes of *Crepidomanes intricatum* (Hymenophyllaceae) using genotyping-by-sequencing. 13th Smithsonian Botanical Symposium, Smithsonian Institution, Washington DC, USA.
84. Wolf, P. G. 2015. Fern genomics: progress and prospects. 13th Smithsonian Botanical Symposium, Smithsonian Institution, Washington DC, USA.
83. Fay-Wei Li, Shifeng Cheng, Joshua P. Der, Bo Song, Xin Liu, Xun Xu, Andrea Bräutigam, Carl J. Rothfels, Erin M. Sigel, Paul G. Wolf, Yoichiro Kato, Henriette Schlupmann, Gane Ka-Shu Wong, Kathleen M.

- Pryer. 2015. The Azolla genome and the metagenomes of its obligate endosymbionts: unlocking the massive green potential of a little fern. 13th Smithsonian Botanical Symposium, Smithsonian Institution, Washington DC, USA.
82. Ellis, Mark W; KE Mock, PG Wolf, S Bardot, JA Walton, SM Kulpa, CA Rowe. 2014. Further Examination of the Geographic Range of Niles's Buckwheat. Presented at the Annual meeting of Botanical Society of America
  81. Marchant, D Blaine; Sessa, Emily Butler; Barbazuk, W Brad; Wolf, Paul G; Der, Joshua; Soltis, Pamela S.; Soltis, Douglas E., 2014. Delving into the C-Fern Genome and Euphyllrophyte Evolution. Presented at the Annual meeting of Botanical Society of America
  80. Wolf, PG, CA Rowe, MP Schilling, JP Der, CJ Visger, JA Thomson. 2014. Origins of *Pteridium* on Galapagos Islands. Presented at the Annual meeting of Botanical Society of America
  79. Wolf, P.G, J. P. Der, F-W Li, C. J. Rothfels, M. A. Gitzendanner, C. J. Visger, D. B. Marchant, D. E. Soltis, P. S. Soltis, K. M. Pryer. 2014. An exploration of fern genome space. Presented at the Annual meeting of Botanical Society of America
  78. Duffy, A. M., D. Farrar, P. G. Wolf. 2014. Exploring the population genetics of independent gametophytes of *Crepidomanes intricatum* (Farrar) Ebihara & Weakley (Hymenophyllaceae) using genotyping-by-sequencing. Presented at the Annual meeting of Botanical Society of America
  77. Ellis, M.W., K. E. Mock, P. G. Wolf, S. Bardot, J. Walton. 2014. Further examination of the geographic range of Niles's buckwheat. Presented at the Annual Utah Rare Plant Meeting, Red Butte Garden, Salt Lake City, UT
  76. Mock, KE, PG Wolf, J. Shaw. 2013. Triploidy in western aspen. Presented at "Restoring the West".
  75. Wolf, P.G., K. E. Mock, E.P. White, H.S. Rai, B.A. Richardson. 2013. Genotyping-by-Sequencing (GBS) for population genomics of aspen (*Populus tremuloides*). Presented at the International Plant and Animal Genome Conference, San Diego, CA, USA. [Link](#).
  74. Campbell, T., Longhurst, M., Duffy, A., Wolf, P., & Shelton, B. E. 2012. Technology Use in Science Classrooms and Reformed Teaching. Proceedings of the 2012 International Conference of the Association for Science Teacher Education (ASTE). Jan. 5-8, Clearwater, Florida. <http://theaste.org/publications/proceedings/2012proceedings.pl>
  73. Duffy, A. M., D. T. Campbell, P. G. Wolf. 2011. "The Virtual Population Genetics (VPG) Simulation System: An Example of Learning 'with' Cyber-enabled Technologies in Science Classrooms" presented at the National Science Teachers Association Research Dissemination Conference, San Francisco, CA.
  72. Der, J. P. and P. G. Wolf, B. 2011. Fern Transcriptomes. Presented at the International Plant and Animal Genome Conference.
  71. Rai, H. S., P. G. Wolf, B. Richardson, R. Cronn, and K. E. Mock. 2011. Aspen transcriptomes. Presented at the International Plant and Animal Genome Conference.
  70. Wolf P.G, \*Der J.P., \*Duffy A.M., \*Davidson J.B., Grusz A.L. 2010 . The evolution of chloroplast genes and genomes in ferns. Presented at the International Symposium on Chloroplast Genomics and Genetic Engineering, Maynooth, Ireland.
  69. \*Der J.P., \*Duffy A.M., \*Davidson J.B., Grusz A.L., Pryer K.M., Wolf P.G, 2010. Development of extensive mitochondrial DNA sequence resources in ferns. Presented at the Annual Meeting of the Botanical Society of America.
  68. \*Der, J. P., M. S. Barker, N. Wickett, C. W. dePamphilis, P. G. Wolf. 2010. Functional genomics of fern gametophytes: transcriptome sequencing in *Pteridium aquilinum*. International Plant and Animal Genomes XVIII. San Diego, CA. [http://www.intl-pag.org/18/abstracts/W54\\_PAGXVIII\\_396.html](http://www.intl-pag.org/18/abstracts/W54_PAGXVIII_396.html)
  67. \*Davidson, J. B. and P. G. Wolf. 2009. Breeding system of *Primula maguirei*: a threatened, cliff-dwelling, narrow endemic. Presented at the Annual Meeting of the Botanical Society of America.
  66. \*Der, J. P. and P. G. Wolf. 2009. Exploratory analyses of genomic sequences in the bracken fern, *Pteridium aquilinum*. Presented at the Annual Meeting of the Botanical Society of America.
  65. \*Der, J. P., J. A. Thomson, \*J. K. Stratford and P. G. Wolf. 2009. Global chloroplast phylogeny and biogeography of bracken (*Pteridium*: Dennstaedtiaceae). Presented at the Annual Meeting of the Botanical Society of America.
  64. \*Davidson, J. B. and P. G. Wolf. 2009. Breeding System characterization of a threatened, cliff dwelling, narrow endemic *Primula*. Presented at the Southwest Rare Plant Conference.
  63. \*Duffy, A. M., S. A. Kelchner, and Paul G. Wolf. 2008. Conservation of selection on matK in ferns following an ancient loss its flanking intron. Presented at the Annual Meeting of the Bot. Soc. of America.
  62. Wolf, P. G., \*A. M. Duffy, and \*J. M. Roper. Inversions in fern chloroplast genomes: the good, the bad, and the tricky. Presented at the Annual Meeting of the Bot. Soc. of America

61. \*Der, J. P., Thomson, J. A. Wolf, Paul G. 2006. A global phylogeographic study of the chloroplast genome in bracken (*Pteridium*: Dennstaedtiaceae). Presented at the Annual Meeting of the Bot. Soc. of America.
60. \*Ellis, M. W., & Gainer, R. E., Wolf, P. G. 2006. Genetic analyses support taxonomic recognition of *Eriogonum corymbosum* var. *nilesii*. Presented at the Annual Meeting of the Botanical Society of America
59. Karol, K. G., Banks, J. A., \*Roper, J. M., & Hansen, S. K., Wolf, P. G., Kuehl, J. V., Boore, J., Everett, K., Mandoli, D. F., Olmstead, R. G. 2006. Plastid genome evolution in lycophytes. Presented at the Annual Meeting of the Botanical Society of America
58. \*Roper, J. M., & Hansen, S. K., Wolf, P. G. 2006. Structural evolution of fern chloroplast genomes. Presented at the Annual Meeting of the Botanical Society of America
57. Wickett, N. J., Zhang, Y. , \*Roper, J. M., & Hansen, S. K., Kuehl, J. V., Plock, S. A., Goffinet, B., dePamphilis, C. W., Wolf, P. G., Boore, J. 2006. Towards a complete chloroplast genome sequence of the non-photosynthetic liverwort *Cryptothallus mirabilis* (Metzgeriales, Marchantiophyta). Presented at the Annual Meeting of the Botanical Society of America.
56. \*Roper, J. M. & S. K. Hansen, J. L. Boore, J. V. Kuehl, D. F. Mandoli, K. G. Karol, R. G. Olmstead, P. G. Wolf. 2005. The chloroplast genome sequence of the Marattioid fern *Angiopteris*. Presented at the Annual meeting of the Botanical Society of America.
55. Murdock, A., B. D. Mishler, A. R. Smith, K. S. Renzaglia, S. Schuette, C. J. O'Kelly, \*J. M. Roper, S. K. Hansen & P. G. Wolf. 2005. Phylogeny of the land plants: analysis of a new comprehensive morphological matrix in relation to nucleotide sequence data and comparative organellar genomics. Presented at the Annual meeting of the Botanical Society of America.
54. \*Ellis, M. W., \*J. M. Roper, & R. E. Gainer, P. G. Wolf. 2005. Genetic analyses of *Eriogonum corymbosum* populations. Presented at the Annual meeting of the Botanical Society of America.
53. Wolf, P. G., C. A. Rowe, S. A. Kelchner, M. Hasebe. 2004. RNA editing and intron splicing in transcripts from a fern chloroplast genome. Presented at the International Pteridophyte Symposium, Edinburgh, Scotland.
52. Dean, K, B. D. Mishler, A. Driskell, P. G. Wolf. 2004. Inferring phylogeny using genomic characters: a case study using land plant plastomes. Presented at the Annual Meeting of the Botanical Society of America.
51. \*Bjerregaard, L and P. G. Wolf. 2004. Highly structured populations of a narrow endemic primrose. Presented at the Annual Meeting of the Botanical Society of America.
50. Mishler, B. D. and P. G. Wolf. 2004. Resolving the green branch of life: Current progress and future challenges. Presented at the Annual Meeting of the Botanical Society of America.
49. Wolf, P. G., C. A. Rowe, M. Hasebe. 2004. RNA editing in a fern chloroplast genome. Presented at the Annual Meeting of the Botanical Society of America.
48. Wolf, P. G, J. V. Kuehl, B. D. Mishler, D. F. Mandoli, K. Arumuganathan, R. G. Olmstead, K. Renzaglia, A. K. Manne, M. W. Ellis, K. G. Karol, J. L. Boore. 2004. The complete chloroplast genome sequence of the lycopod, *Huperzia lucidula* (Lycopodiaceae): implications for land plant phylogeny. RNA editing in a fern chloroplast genome. Presented at the Annual Meeting of the Botanical Society of America.
47. Mandoli, D., Olmstead, R., Mishler, B., Boore, J. L., Smith, A. R., Renzaglia, K, Wolf, P. G., Donoghue, M. J., O'Kelley, C. 2003. Making BAC libraries from algae, non-seed and seed plants: fundamental public resources for plant science Toward resolution of the fuzzy nodes in green plant phylogeny. **Presented at :**
- Plant Genetics, Snowbird October 22-26, 2003
  - Presented at the American Society for Plant Biologists, Ann. Natl Meeting. Honolulu, HI
  - Annual Meeting of the Phycological Society of America. Gleneden Beach, OR
  - Fourth International Symposium on Grass Systematics and Evolution. Santa Ana, CA.
  - Plant and Animal Genome Conference XI San Diego, CA. January 11-14, 2003.
46. Mandoli, D. , R. Olmstead, B. Mishler, J. L. Boore, A. R. Smith, K. Renzaglia, P. G. Wolf, M. J. Donoghue, C. O'Kelley. 2003. Toward resolution of the fuzzy nodes in green plant phylogeny. **Presented at:**
- Plant Genome Conference. Kew Gardens, England.
  - Plant Genetics, Snowbird, UT.
  - Society Protozoologists. Gleneden Beach, OR.
  - Third International Conference on the Comparative Biology of the Monocotyledons
  - American Society for Plant Biologists
  - Plant and Animal Genome Conference XI San Diego, CA
45. Pryer, K. M., E. Schuettpelez, R. C. Cranfill, P. G. Wolf, A. R. Smith, H. Schneider. 2003. Phylogeny of early-diverging leptosporangiate ferns based on morphology and multiple genes: *rbcL*, *atpB*, *rps4*, and *18S*. Presented at the Annual meeting of the Botanical Society of America.



44. Wolf, P. G., C. A. Rowe, R. B. Sinclair, M. Hasebe. 2003. Complete nucleotide sequence of the chloroplast genome from a leptosporangiate fern, *Adiantum capillus-veneris* L. Poster presented at the Annual meeting of the Botanical Society of America.
43. Mandoli, D. , R. Olmstead, B. Mishler, J. L. Boore, A. R. Smith, K. Renzaglia, P. G. Wolf, M. J. Donoghue, C. O'Kelley. 2003. Toward resolution of the fuzzy nodes in green plant phylogeny. Presented at Annual Meeting of the Phycological Society of America
42. Mandoli, D. , R. Olmstead, B. Mishler, J. L. Boore, A. R. Smith, K. Renzaglia, P. G. Wolf, M. J. Donoghue, C. O'Kelley. 2003. Toward resolution of the fuzzy nodes in green plant phylogeny. Presented at Third International Conference on the Comparative Biology of the Monocotyledons.
41. Mandoli, D. , R. Olmstead, B. Mishler, J. L. Boore, A. R. Smith, K. Renzaglia, P. G. Wolf, M. J. Donoghue, C. O'Kelley. 2003. Toward resolution of the fuzzy nodes in green plant phylogeny. Presented at the Plant and Animal Genome Conference, San Diego, CA.
40. \*Speer, W. D. and P. G. Wolf. 2002. A phylogenetic study of the genus *Equisetum* using chloroplast and nuclear DNA. Annual meeting of the Botanical Society of America
39. \*Speer, W. D. and P. G. Wolf. 2002. Analysis of basal vascular plant phylogeny using chloroplast genome sequences. Annual meeting of the Botanical Society of America
38. \*Speer, W. D. and C. R. Werth, E. Sheffield. P. G. Wolf. 2002. North American *Pteridium*: insights on population structure and systematic relationships from morphology, isozymes, and chloroplast DNA. Annual meeting of the Botanical Society of America
37. Wolfe, A. D., R. Reiland, C. R. Randle, F. J. Smith, P. G. Wolf. 2001. Conservation genetics of *Penstemon bicolor* ssp. *bicolor*. Annual meeting of the Botanical Society of America.
36. Wolf, P. G. B. Doche, L. Gielly, P. Taberlet. 2001. Genetic structure of alpine *Rhododendron* across a wide range of spatial scales. Annual meeting of the Botanical Society of America.
35. \*Speer, W. D., E. Sheffield, P. G. Wolf. 2001. Relationships among northern hemisphere *Pteridium* : some new perspectives. Annual meeting of the Botanical Society of America.
34. Pryer, K.M., H. Schneider, A.R. Smith, P. G. Wolf, R. C. Cranfill, J. S. Hunt & \*S.D. Sipes. 2000. The closest living relative to seed plants: insights from four genes and morphology. *American Journal of Botany* 87 (Suppl): 151.
33. Schneider, H., Pryer, K.M., A.R. Smith, P. G. Wolf, R. C. Cranfill. 2000. Phylogeny of vascular plants and the evolution of their body plans. Symposium on Developmental Genetics and Plant Evolution, Natural History Museum, London, UK, September, 2000.
32. Schneider, H., Pryer, K.M., P.G. Wolf. 1999. Phylogeny of basal tracheophytes and ferns inferred from four large datasets: morphology, 18S nrDNA, RBCL, and ATPB. Presented at the Internional Symposium of the German Botanical Society, Jena, 6-10 September 1999.
31. Schneider, H., Pryer, K.M., P.G. Wolf. 1999. Phylogeny of basal tracheophytes and ferns inferred from four large datasets: morphology, 18S nrDNA, RBCL, and ATPB. Presented at the XVIII meeting of the Hennig society, Goettingen, 12-17 September 1999.
30. \*Sipes, S. D., P. G. Wolf, V. J. Tepedino. 1999. Has host-switching been common or rare in specialist bees? A molecular phylogenetic analysis of *Diadasia* (Hymenoptera: Apidae)? Presented at the Annual Meeting of the Society for Evolution.
29. Wolf, P. G., Schneider, H. amd T. A. Ranker. 1999. The roles of vicariance and long-distance dispersal in the origin of fern distributions. Presented at the International Botanical Conference. *American Journal of Botany*
28. Pryer, K.M., H. Schneider, J.S. Hunt, L. Sappelsa, P.G. Wolf, S. D. Sipes\*, and A. R. Smith. 1999. Phylogeny of basal tracheophytes and ferns inferred from four large datasets: morphology, 18S nrDNA, RBCL, and ATPB. Presented at the International Botanical Conference. *American Journal of Botany*
27. J.S. Hunt, K.M. Pryer, A. Vaghani, A.R. Smith, and P.G. Wolf. 1999. Fern DNA database: using Filemaker pro to coordinate DNA-availability, DNA-sequence data, voucher and source information for large-scale and collaborative phylogeny studies. Presented at the International Botanical Conference. *American Journal of Botany*
26. \*Sipes, S. D., P. G. Wolf, V. J. Tepedino. 1998. Evolution of host choice in *Diadasia*, a genus of oligolectic bees (Hymenoptera: Apidae). Presented at the Annual Meeting of the Entomological Society of America.
25. \*Roberts, M. D., P. G. Wolf, and M. P. Oneill. 1998. Hydrogeomorphic influences on clonal recruitment of cottonwood (*Populus angustifolia*) in a mountain stream setting. Presented to the American Geophysical Union, San Francisco.
24. \*Roberts, M. D., P. G. Wolf, and M. P. Oneill. 1998. Clonal reproduction of *Populus angustifolia* in a mountain stream setting. Presented to the Ecological Society of America.

23. Wolf, P. G. and K. M. Pryer. 1997. Multiple gene approaches to fern phylogeny. *American Journal of Botany* 84: 160
22. Kropp, B. R., D. Hansen, P. G. Wolf, S. V. Thomson. 1996. Phylogenetic relationships among species of *Puccinia* pathogenic on crucifers, based on sequences of the internal transcribed spacer region. *Phytopathology*: (In Press). Presented at the annual meeting of the American Phytopathological Society, Indianapolis, IN.
21. \*Bobowski, B. R., P.J. Urness, L.D. Bryant, P. G. Wolf and D. Hole. 1996. Identification of belowground woody structures using molecular biomarkers. Presented at the annual meeting of the Ecological Society of America.
20. \*Hickerson, L. L., V. J. Tepedino, P. G. Wolf. 1996. Reproductive biology and patterns of genetic variation in the rare endemic plant *Arctomecon californica*. *American Journal of Botany* 83: 83
19. Wolf, P. G. 1996. Nucleotide sequences from *atpB* provide useful data for fern systematics. *American Journal of Botany* 83: 133
18. \*Sipes, S. D., P. G. Wolf, and V. J. Tepedino. 1995. Population genetics and reproduction of the threatened Jones' *Cycladenia*. Presented at the Southwestern Rare and Endangered Plant Conference, Flagstaff, AZ.
17. Wolf, P. G. 1995. Pteridophyte phylogenies based analyses of DNA sequences: A multiple gene approach. Presented at the International Pteridophyte Symposium, Kew Gardens, U.K.
16. Wolf, P. G., E. Sheffield and J. A. Thomson. 1994. Bracken taxa in Britain: a molecular analysis. *Proceedings of Bracken '94 Conference*, Aberystwyth, UK.
15. Sheffield, E., P. G. Wolf and T. A. Ranker. 1994. Genetic analysis of bracken in the Hawaiian islands. *Proceedings of Bracken '94 Conference*, Aberystwyth, UK.
14. Wolf, P. G. and D. S. Conant. 1994. Use of Molecular data in evolutionary studies of pteridophytes. 1994. Presented at the Annual meeting of the AIBS. *Amer. J. of Botany* 81 (6): 119
13. Hasebe, M. et al. 1994. A global analysis of fern phylogeny based on *rbcL* nucleotide sequences. *American Journal of Botany* 81 (6): 120.
12. Wolf, P. G. 1994. Relationships among genera in the Dennstaedtiaceae and Lindsaeaceae based on gene sequence variation. Presented at the Annual meeting of the American Institute of Biological Sciences. *American Journal of Botany* 81 (6): 123-124
11. Chapman, R. L., T. A. J. Hedderson, W. L. Rootes, and P. G. Wolf. 1994. The green algae and land plants: two major lineages and monophyly of the land plants. Presented at the annual meeting of the International Society for Evolutionary Protistology. Halifax.
10. \*Barnes, J. L. and P. G. Wolf. 1994. The effect of population isolation on genetic diversity, gene flow, and pollination: implications for the rare plant *Mirabilis macfarlanei* (Nyctaginaceae). (Abstract of paper presented to the annual meeting, Northwest Scientific Association). *NW Sci.* 68: 114
9. Wolf, P. G., R. A. Murray\*, S. D. Sipes\*. 1993. A molecular test of secondary intergradation in hybrid zones of *Ipomopsis*. Presented at the Annual meeting of the Society for the Study of Evolution.
8. Wolf, P.G., D. E. Soltis, P. S. Soltis. 1992. Relationships among dennstaedtioid ferns based on *rbcL* sequence variation. Presented at the Annual Meeting of the Internat. Org. of Plant Biosystematists.
7. Wolf, P. G., P. S. Soltis and D. E. Soltis. 1992. Molecular phylogeny of dennstaedtioid ferns using DNA sequence analysis. (Abstract of paper presented at the annual meeting of the American Institute of Biological Sciences). *Amer. J. Bot.* 79: 122.
6. Wolf, P. G. and D. R. Campbell. 1991. A hierarchical analysis of allozymic and morphometric variation in *Ipomopsis aggregata*. Presented at the annual meeting of the Society for the Study of Evolution.
5. Wolf, P. G., P. S. Soltis and D. E. Soltis. 1989. Patterns of allozymic divergence and levels of gene flow in the *Ipomopsis aggregata* complex (Polemoniaceae). (Abstract of paper presented at the annual meeting of the American Institute of Biological Sciences). *Amer. J. Bot.* 76: 284- 285.
4. Wolf, P. G., P. S. Soltis and D. E. Soltis. 1988. Autopolyploidy and tetrasomic inheritance in *Heuchera grossulariifolia* (Saxifragaceae). (Abstract of paper presented to the annual meeting of the Northwest Scientific Association). *NW Sci.* 62: 78.
3. Wolf, P. G., P. S. Soltis and D. E. Soltis. 1988. Chloroplast DNA variation in *Heuchera grossulariifolia* (Saxifragaceae). (Abstract of paper presented at the annual meeting of the American Institute of Biological Sciences). *Amer. J. Bot.* 75: 218
2. Wolf, P. G., P. S. Soltis and D. E. Soltis. 1987. Autopolyploid evolution in *Heuchera grossulariifolia* (Saxifragaceae). (Abstract of paper presented at the annual meeting of the American Institute of Biological Sciences). *Amer. J. Bot.* 74: 767.
1. Wolf, P. G. 1985. Analysis of the polyploid nature of bracken fern (*Pteridium aquilinum*). (Abstract of paper presented at the annual meeting of the American Institute of Biological Sciences). *Amer. J. Bot.* 72: 930

**Invited presentations at meetings:**

- Wolf, P. G. and R. J. Duff. 2005. RNA editing in land plant organellar genomes and its effect on phylogenetic analysis. Invited symposium talk at the Annual Meeting of the Botanical Society of America, Austin TX.
- Dean G. Kelch, Kenneth G. Karol, Brent D. Mishler, and Paul G. Wolf. 2005. Inference of land plant phylogeny from genomic chloroplast data. Genomics Symposium at the 17th International Botanical Congress, Vienna.
- K.M. Pryer, H. Schneider, J.S. Hunt, P.G. Wolf, & A.R. Smith. 1999. Basal tracheophytes and the phylogeny of "pteridophyte" lineages. Symposium on the Phylogeny of Green Plants and International Workshop on Advances on the Phylogeny of Bryophytes, Xalapa, Veracruz, Mexico
- Wolf, P. G., H. Schneider, and T. A. Ranker. 1999. The roles of vicariance and long-distance dispersal in the origin of fern distributions. Presented at the International Botanical Conference. American Journal of Botany
- Wolf, P. G. and K. M. Pryer. 1997. Multiple gene approaches to fern phylogeny. Presented as part of Symposium on Relationships and fossil history of ferns, organized by the Botanical Society of America, Montreal Conference.
- Soltis, D. E, P. S. Soltis and P. G. Wolf. 1990. Isozyme evidence for genetic diploidy in homosporous pteridophytes. Presented at the International Pteridological Conference.
- Soltis, P. S, D. E. Soltis and P. G. Wolf. 1990. Allozymic and chloroplast DNA analyses of polyploidy in *Polystichum*. Presented at the International Pteridological Congress.
- Wolf, P. G., L. Sheffield and C. H. Haufler. 1989. Genetic attributes of bracken as revealed by enzyme electrophoresis. Presented at the International Bracken Conference, Sydney, Australia.
- Wolf, P. G., C. H. Haufler and L. Sheffield. 1988. Maintenance of genetic variation in the clonal weed *Pteridium aquilinum* (bracken). Southern Association of Agricultural Scientists, New Orleans, LA.

**Invited Seminars:**

- 2015: Organization of Tropical Studies, La Selva, Costa Rica  
Old Dominion University  
Shaang Xi Normal University, China  
Shanghai Chenshan Botanical Gardens
- 2014: University of Florida
- 2013: University of Vermont  
Duke University
- 2012: Florida Gulf Coast University
- 2008: University of Michigan  
University of Florida
- 2007: St. Thomas University  
Macalester University
- 2006: University of Connecticut
- 2005: Duke University  
Idaho State University  
Rancho Santa Ana Botanical Garden
- 2004: Spring : Utah State University, Department of Biology – Brown Bag lunch  
Fall : Utah State University, Department of Biology  
University of Washington, Department of Biology
- 2003: National Institute for Basic Biology, Okazaki, Japan  
Idaho State University  
Utah State University
- 2002: University of Louisville, KY  
University of California, Berkeley  
Department of Energy, Joint Genome Institute, Walnut Creek, CA
- 2001: University of Manchester, UK
- 1999: Brigham Young University  
Université Joseph Fourier, Grenoble, France
- 1998: University of Vermont  
Texas A & M University  
University of Michigan

Boise State University  
 1997: Utah State University, Department of Biology and Molecular Biology Program  
 1995: Utah State University, Department of Biology  
 1994: Utah State University, Department of Biology and Molecular Biology Program  
 University of British Columbia, Vancouver  
 1993: University of Utah, University of Kansas  
 1992: Utah State University, Department of Fisheries and Wildlife  
 1991: Rancho Santa Ana Botanic Garden, CA.  
 Utah State University, Department of Biology  
 Indiana University, Bloomington  
 1991: University of Hawaii, Manoa  
 University of California, Riverside  
 1990: University of California, Riverside, Washington State University, Pullman  
 University of California, Irvine, University of Texas, Austin  
 1988: University of Manchester, England

**Courses taught:**

Evolutionary Genetics (lecture)	Evolutionary Genomics
Principles of genetics (undergraduate lecture)	Genetics lab (undergraduate lab)
Population Genetics (undergraduate/graduate lecture)	General Ecology (graduate lecture)
Principles of Phylogenetic Systematics	Phylogenetic systematics (graduate lecture)
Molecular Population genetics Laboratory (graduate lab)	History of population genetics (seminar)
Alternative approaches to phylogenetic analysis (seminar)	Current topics in population genetics (seminar)
Phylogenetic analysis of DNA sequences (seminar)	

**Reviewer for journals:**

Evolution	Proceedings of the National Acad. of Sciences, U.S.A.
Systematic Botany	American Journal of Botany
Conservation Biology	Biological Journal of the Linnean Society
American Naturalist	Canadian Journal of Botany
Molecular Ecology	Molecular Biology and Evolution
Sexual Plant Reproduction	Plant Species Biology
Genetica	Botanical Journal of the Linnean Society
BMC Genomics	BMC Evolutionary Biology

Associate Editor, Journal of Systematics and Evolution

**Service Duties (Current in bold):**

**Associate Head of Department, Biology. 2014 – present**  
**Education committee of Botanical Society of American**  
**Member International Union for Conservation of Nature (IUCN) Species Survival Commission,**  
**Galapagos Plant Specialist Group**  
**Public Library of Science, Currents: Tree of Life: Board member**  
**Current Tenure & Promotion or post tenure review: 6 committees**  
**Review of external promotion packets: 2 in 2014**  
**Department Seminar Committee (Chair, 2010-present)**  
**NSF proposal panel and regular reviewer of proposals**  
**Education Committee of Botanical Society of America (2014 – 2017)**  
**Journal of Systematics and Evolution: Journal editor.**  
 Graduate programs committee: 1994 – 1999; 2010- 2013(co-chair, 2011-2013)  
 Past Tenure & Promotion or post tenure review: 14 committees  
 USU Central T&P Committee (2011-2012)  
 Department Head Search committee (2010-2011)  
 Chair, Search Committee, Evolutionary Biologist, Dept. Biology 2005  
 USU High Performance Computing Taskforce 2005 (Chair of USU Needs subcommittee)  
 Several Tenure and Promotion committees (1996 – present)  
 Chair, Tenure and Promotion committee for Michael Pfrender (2001 – present)

Seach Committee, Spatial Ecologist, Dept. Biology (2003-2004)  
USU Genomics Task Force, 2001.  
Search Committee, Quantitative Geneticist, Dept Biology (2000-01)  
Search Committee, Ecosystem Ecologist, Dept. Biology, 1998-1999  
Chair, Search Committee, Quantitative Geneticist, Dept Biology (1996-97)  
Graduate Programs Committee, Department of Biology, 1995 – 1999, 2010 - present  
Health Professions Evaluation Committee, 1996-  
Search Committee, Department of Biology, for Insect Systematist (1995-96)  
Search Committee, Department of Fisheries and Wildlife, for Conservation Geneticist (1993,94)  
Molecular Biology Program Student Travel Awards Committee (1992-1993)  
Student Advisory Council, Washington State University, 1988-1990.  
Botany Graduate Student Representative to Faculty, Washington State University, 1988-1989.  
Botany Graduate Student Organization, President, University of Kansas, 1985-1986.