

Curriculum vitae

James F. Smith
Biology Department
1910 University Dr.
Boise, ID, 83725

Education

- 1982-1986 Cornell University, Division of Biological Sciences:
B.A. cum laude biological sciences and distinction
- 1986-1991 University of Wisconsin-Madison, Botany Department: Ph.D.
under Kenneth J. Sytsma, Dissertation Title: The Evolution and
Systematics of Columnea (Gesneriaceae).

Professional Experience

- 2001- Full Professor, Biology Department, Boise State University,
Herbarium Director (SRP)
- 1997-2001 Associate Professor, Biology Department, Boise State University,
Herbarium Director (SRP)
- 2000-2001 Harvard University Herbaria Associate.
- 1992-1997 Assistant Professor, Biology Department, Boise State University,
Herbarium Director (SRP)
- 1991-1992 Post-Doctorate position with Drs. W. John Kress and Elizabeth A. Zimmer
on cladistic relationships of the Zingiberales
- 1992 Instructor for Biolat Workshop on Biodiversity, Cuzco, Perú

Courses Taught

- Plants and Society – An introductory level non-biology major’s course teaching the principles of biology and botany through plants that are used by people in societies around the globe.
- General Botany – An introductory level biology major’s course aimed at teaching the basic principles of biology (ecology, evolution, genetics) and basics of botany.
- Plant Systematics – An intermediate level biology major’s course to teach the principles of modern systematics methods (DNA, phylogenetics) as well as a basic knowledge of plant family and genera identification.
- Organic Evolution – An upper level biology major’s course covering the basics of evolution and modern research in the field.

Plant Physiology – An upper level biology major’s course teaching the principles of whole plant physiology, included a section on modern molecular methods.

Bioinformatics – An upper level and graduate biology major’s course. I was responsible for teaching homology, alignment and phylogenetics.

Species and Speciation – A graduate level course covering original papers on species concepts and current original papers on aspects of speciation as a process.

Automated Sequencing – A graduate level practical course on using automated sequencing equipment for research.

Population Genetics – A graduate level course, co-taught with another faculty member on a need basis.

Readings in Evolution – A weekly journal club discussion of recent papers related to molecular population and phylogenetic research, open to undergraduate and graduate students.

Grants Awarded

2008	Marjorie Moore Davidson Foundation (donation made to BSU Foundation \$10,000)
	Chris Davidson and Sharon Christoph (donation made to BSU Department of Biological Sciences \$5,000)
2007	Marjorie Moore Davidson Foundation (donation made to BSU Foundation \$5,000)
2006	The DNA Safeguard Project: co-PI (Hampikian as PI: Department of Defense, \$850,000)
2006	U. S. Fish and Wildlife Service (\$5200)
2006	Marjorie Moore Davidson Foundation (donation made to BSU Foundation \$10,000)
2005	U. S. Fish and Wildlife Service (\$1800)
2004	NSF supplement for Research Education for Undergraduates (\$6,000)
	Boise State University Faculty Research Grant (\$5000)
2003	NSF supplement for Research Education for Undergraduates (\$12,000)
2002	NSF supplement for Research Education for Undergraduates (\$12,000)
2001	Boise State University Faculty Research Grant (\$5000)

NSF grant DEB-0107763 (\$271, 492)

BSU-EPSCoR travel grant (\$1500)

BSU-EPSCoR graduate student support to Lisa Hahn (\$4000)

BSU College of Arts and Sciences Mini-development Grant for
“Systematics as an Active Science: Display for Passive Education” (\$600)

2000 NSF ROA Grant (\$24,930) with Dr. David Baum, Harvard University as
P. I.

2000 Li-Cor automated sequencer (\$30,000) A private donation from Dr. Chris
Davidson.

2000 Boise State University Faculty Research Grant (\$5000)

1999 Faculty Research Associates Fellowship (\$4200)

1998 National Geographic Society (\$11,000)

1998 Boise State University Faculty Research Grant (\$5000)

1997 Boise State University Faculty Research Grant (\$5000)

1996 NSF REU Supplement Grant (\$5000)

1995 Boise State University Foundation (\$5000) to fund a seminar series on
Conservation Biology (with Dr. Steven Novak)

1995 Boise State University Faculty Research Associates Program (\$3900)

1995 Boise State University Faculty Research Grant (\$4841)

1994 NSF Research at Undergraduate Institutions Grant (\$167, 304)

1994 BLM Challenge Cost Share Grant (\$9,000)

1993 Idaho State Board of Education Grant (\$26, 581)

1993 Faculty Research Grant, Boise State University (\$5000, funding returned
due to receipt of State Board Grant in the same year)

1993 American Gloxinia and Gesneriad Society (\$1000)

1989 American Gloxinia and Gesneriad Society (\$1000)

- 1988-1990 NSF Dissertation Improvement Grant under supervision of Dr. Kenneth J. Sytsma (\$15,225)
- 1987 Jessie Smith Noyes Fund, Organization for Tropical Studies, Costa Rica (\$206)
- 1987 Nave Foundation, University of Wisconsin-Madison (\$500)
- 1987 O.N. and E.K. Allen grant, University of Wisconsin-Madison (\$1000)
- 1987 Davis Fund, botany department, University of Wisconsin-Madison (\$678)

Honors and Awards

- 1998 Boise State University College of Arts and Sciences award for distinguished research in Math and Science
- 2005 2005 Top Ten Scholar Honored Faculty Member. In recognition for inspiring and mentoring Boise State students

Publications

- Anderson, K. E., S. J. Novak, and J. F. Smith. Populations composed entirely of hybrid colonies: bidirectional hybridization and polyandry in harvester ants. *Biological Journal of the Linnean Society* 95: 320-326.
- Barkworth, M. E., M. O Arriaga, J. F. Smith, S. W. L. Jacobs, J. V. Reyna, and B. S. Bushman. 2008. Molecules and morphology in South American Stipeae (Poaceae). *Systematic Botany* 33: 719-731.
- Jaramillo, M. A., R. Callejas, C. Davidson, J. F. Smith, A. C. Stevens, and E. Tepe. 2008. A phylogeny of the tropical genus *Piper* (Piperaceae) using ITS and the chloroplast intron *psbJ-petA*. *Systematic Botany* 33: (in press).
- Smith, J. F., A. C. Stevens, and C. Davidson. 2008. Placing the origin of two species-rich genera in the late Cretaceous with later species divergence in the Tertiary: A phylogenetic, biogeographic and molecular dating analysis. *Plant Systematics and Evolution* 275: 9-30.
- Zhou, X-R., Y-Z. Wang, J. F. Smith and R. Chen. 2008. Altered expression patterns of TCP and MYB gene relating to the floral development transition from initial zygomorphy to actinomorphy in *Bournea* (Gesneriaceae). *New Phytologist* 178: 532-543.
- L. Leppert, T. V. Zadorozhny, J. R. Belthoff, A. M. Dufty, Jr., S. Hamilton, G. Kaltenecker, and J. F. Smith. 2007. DNA Sexing of Owls: A Comparison of Three Methods. *Journal of Raptor Research* 40: 291-294.

- Smith, J. F., M. M. Funke, and V. L. Woo. 2006. A Duplication of *gcyc* Predates Divergence within tribe Coronanthereae (Gesneriaceae): Phylogenetic Analysis and Evolution. *Plant Systematics and Evolution* 261: 245-256.
- Cronk, Q. C. B., M. Kiehn, W. L. Wagner, and J. F. Smith. 2005. Evolution of *Cyrtandra* (Gesneriaceae) in the Pacific Ocean: the origin of a supertramp clade *American Journal of Botany* 92: 1017-1024.
- Smith, J. F., S. B. Draper, L. C. Hileman, and D. A. Baum. 2004. A phylogenetic analysis within tribes Gloxinieae and Gesnerieae (Gesneriaceae: Gesnerioideae). *Systematic Botany* 29: 947-958.
- Smith, J. F., L. C. Hileman, M. P. Powell, and D. A. Baum. 2004. Evolution of *GCYC*, a Gesneriaceae homolog of *CYCLOIDEA*, within Gesnerioideae (Gesneriaceae). *Molecular Phylogenetics and Evolution* 31: 765-779.
- Smith, J. F. and T. A. Bateman. 2002. Genetic differentiation of rare and common varieties of *Eriogonum shockleyi* (Polygonaceae) in Idaho using ISSR variability. *Western North American Naturalist* 62: 316-326.
- Smith, J. F. 2001. The phylogenetic relationships of *Lembocarpus* and *Goyazia* (Gesneriaceae): based on *ndhF* sequences. *Ann. Missouri Bot. Gard.* 88: 135-143.
- Smith, J. F. 2001. High Species Diversity in Fleshy-Fruited Tropical Understory Plants. *The American Naturalist* 157: 646-653.
- Amaya M., M., L. E. Skog, C. E. Gonzalez and J. F. Smith. 2000. Una nueva especie de *Columnnea* (Gesneriaceae) del Norte de los Andes Colombianos. *Caldasia* 22: 185-189
- Smith, J. F. 2000. A phylogenetic analysis of tribes Beslerieae and Napeantheae (Gesneriaceae): parsimony and maximum-likelihood analyses of *ndhF* sequences. *Systematic Botany* 25: 71-80.
- Smith, J. F. 2000. Phylogenetic signal common to three data sets: combining data which initially appear heterogeneous. *Plant Systematics and Evolution* 221: 179-198.
- Smith, J. F. 2000. Phylogenetic resolution within the tribe Episcieae (Gesneriaceae): congruence of ITS and *ndhF* sequences from parsimony and maximum-likelihood analyses. *Amer. J. Bot.* 87: 883-897.
- Smith, J. F. 1999. *Alloplectus martinianus*, a new species of Gesneriaceae from Ecuador. *Novon* 9: 419-421.
- Smith, J. F., M. Kresge, M. Møller, and Q. C. Cronk. 1998. The African violets (*Saintpaulia*) are members of *Streptocarpus* subgenus *Streptocarpella* (Gesneriaceae): Combined evidence from chloroplast and nuclear ribosomal genes. *Edinburgh Journal of Botany* 55: 1-11.
- Smith, J. F. and S. Atkinson. 1998. Phylogenetic analysis of the tribes Gloxinieae and Gesnerieae (Gesneriaceae): Data from *ndhF* Sequences. *Selbyana* 19: 122-131.

- Smith, J. F. and C. L. Carroll. 1997. Phylogenetic relationships of the Episcieae (Gesneriaceae) based on ndhF sequences. *Systematic Botany* 22: 713-724.
- Smith, J. F., J. C. Wolfram, K. D. Brown, C. L. Carroll, and D. S. Denton. 1997. Tribal relationships in the Gesneriaceae: Evidence from DNA sequences of the chloroplast gene ndhF. *Annals of the Missouri Botanical Garden*. 84: 50-66.
- Smith, J. F., K. D. Brown, C. L. Carroll, and D. S. Denton. 1997. Familial Placement of Cyrtandromoea, Titanotrichum, and Sanango: Three Problematic Genera of the Lamiales. *Taxon* 40: 65-74.
- Smith, J. F. 1996. Tribal relationships within the Gesneriaceae: a cladistic analysis of morphological data. *Systematic Botany*. 21: 497-514.
- Smith, J. F., C. C. Burke, and W. L. Wagner. 1996. Interspecific Hybridization in Natural Populations of Cyrtandra (Gesneriaceae) on the Hawaiian Islands: Evidence from RAPD markers. *Plant Systematics and Evolution* 200: 61-77.
- Smith, J. F., and T. Vuong Pham. 1996. Genetic diversity in natural populations of the rare Idaho endemic Allium aaseae and its relatedness and potential introgression with Allium simillimum using RAPD markers. *American Journal of Botany* 83: 717-726.
- Smith, J. F., and J. J. Doyle. 1995. A Cladistic Analysis of chloroplast DNA restriction site variation and morphology for the genera of the Juglandaceae. *Amer. J. Bot.* 82: 1163-1172.
- Smith, J. F., and K. J. Sytsma. 1994. Molecules and morphology: Congruence of data in Columnea (Gesneriaceae). *Plant Systematics and Evolution*. 193: 37-52.
- Smith, J.F. 1994. Systematics of Columnea sections Pentadenia and Stygnanthe (Gesneriaceae). *Systematic Botany Monographs* Volume 44.
- Smith, J. F., and K. J. Sytsma. 1994. Evolution in the Andean epiphytic genus Columnea (Gesneriaceae). Part I. Morphology. *Syst. Bot.* 19: 220-235.
- Smith, J. F., and K. J. Sytsma. 1994. Evolution in the Andean epiphytic genus Columnea (Gesneriaceae). Part II. Chloroplast DNA restriction site variation. *Syst. Bot.* 19(2): 317-336.
- Givnish, T. J., K. J. Sytsma, J. F. Smith, and W. J. Hahn. 1994. Thorn-like prickles and heterophylly in Cyanea: Adaptations to extinct avian browsers on Hawai'i? *Proc. Nat. Acad. Sci., USA*. 91: 2810-2814.
- Smith, J. F., and M. A. Kuchenreuther. 1993. A Floristic survey of Benedict Prairie (Kenosha County, WI). *Bulletin of the University of Wisconsin-Milwaukee Field Station*. 26:10-24.
- Smith, J. F., W. J. Kress, and E. A. Zimmer. 1993. Phylogenetic analysis of the Zingiberales based on rbcL sequence analysis. *Ann. Missouri Bot. Gard.* 80: 620-630.

- Duvall, M. R., M. T. Clegg, M. W. Chase, W. D. Clark, W. J. Kress, H. G. Hills, L. E. Eguiarte, **J. F. Smith**, B. S. Gaut, E. A. Zimmer, & G. H. Learn, Jr. 1993. Phylogenetic hypotheses for the Monocotyledons constructed from rbcL sequence data. *Ann. Missouri Bot. Gard.* 80: 607-619.
- Chase, M. W., D. E. Soltis, R. G. Olmstead, D. Morgan, D. H. Les, B. D. Mishler, M. R. Duvall, R. A. Price, H. G. Hills, Y.-L. Qiu, K. A. Kron, J. H. Rettig, E. Conti, J. D. Palmer, J. R. Manhart, K. J. Sytsma, H. J. Michaels, W. J. Kress, K. G. Karol, W. D. Clark, M. Hedren, B. S. Gaut, R. K. Jansen, K.-J. Kim, C. F. Wimpee, **J. F. Smith**, G. R. Furnier, S. H. Strauss, Q.-Y. Xiang, G. M. Plunkett, P. S. Soltis, S. Swenson, S. E. Williams, P. A. Gadek, C. J. Quinn, L. E. Eguiarte, E. Golenberg, G. H. Learn, Jr., S. W. Graham, S. C. H. Barrett, S. Dayanandan, & V. A. Albert. 1993. Phylogenetics of seed plants: an analysis of nucleotide sequences from the plastid gene rbcL. *Ann. Missouri Bot. Gard.* 80: 528-580.
- Smith, J. F., and L. E. Skog. 1993. Novae Gesneriaceae Neotropicarum V. Four new species and two combinations in Columnea (Gesneriaceae) from South America. *Novon* 3(2): 186-197.
- Donoghue, M. J., R. G. Olmstead, J. F. Smith, and J. D. Palmer. 1992. Phylogenetic relationships of Dipsacales based on rbcL sequences. *Ann. Missouri Bot. Gard.* 79(2): 333-345.
- Smith, J.F., K.J. Sytsma, J.S. Shoemaker, and R.L. Smith. 1992. A qualitative comparison of total cellular DNA extraction protocols. *Phytochemical Bulletin.* 23 (1 & 2): 2-9.
- Sytsma, K.J., J.F. Smith, and P.E. Berry. 1991. The use of chloroplast DNA to assess biogeography and evolution of morphology, breeding systems, and flavonoids in Fuchsia sect. Skinnera (Onagraceae). *Syst. Bot.* 16(2):257-269.
- Spooner, D. M., K. J. Sytsma, and J. F. Smith. 1991. A molecular reexamination of diploid hybrid speciation for Solanum raphanifolium (Solanaceae). *Evolution.* 45: 757-763.
- Sytsma, K. J., J. F. Smith, and L. D. Gottlieb. 1990. Sectional relationships in Clarkia (Onagraceae) determined by chloroplast DNA restriction site mapping. *Syst. Bot.* 15: 280-295.
- Sytsma, K.J., and J.F. Smith. 1988. DNA and morphology: comparisons in the Onagraceae. *Annals Missouri Bot. Gard.* 75(4): 1217-1237.

Chapters In Books

- Sytsma, K.J., and J.F. Smith. 1992. Molecular systematics of Onagraceae: examples from Clarkia and Fuchsia. pp. 295-323 In D.E. Soltis, P.S. Soltis, and J.J. Doyle [eds.] Plant Molecular Systematics. Chapman Hall.

Sytsma, K.J., T. J. Givnish, J.F. Smith, and W. J. Hahn. 1993. Obtaining and storing land plant samples for macromolecular comparisons. In: Molecular Evolution: Producing the Biochemical Data: Methods in Enzymology, eds. E. A. Zimmer, T. J. White, R. L. Cann, and A. C. Wilson.

Givnish, T. J., K. J. Sytsma, J. F. Smith, and W. J. Hahn. 1995. Molecular evolution, adaptive radiation, and geographic speciation in Cyanea (Campanulaceae, Lobelioideae). pp. 288-337 In W. L. Wagner and V. A. Funk (eds.) Hawaiian Biogeography: Evolution on a Hot Spot Archipelago. Smithsonian Institution Press; Washington, DC.

Givnish, T. J., K. J. Sytsma, J. F. Smith, W. J. Hahn, D. H. Benzing, and E. M. Burkhardt. 1997. Molecular evolution and adaptive radiation in Brocchinia (Bromeliaceae: Pitcairnioideae) atop tepuis of the Guayana Shield. pp. 259-312. In: Molecular Evolution and Adaptive Radiation. T. J. Givnish and K. J. Sytsma (eds.), Cambridge University Press.

Publications In Popular Press

Smith, J. F. 1993. Molecular systematics and Columnea: Tracing evolutionary history. The Gloxinian.

Smith, J. F. 1995. Natural hybridization in Hawaiian Gesneriaceae. Gesneriad Journal.

Gesneriaceae pages for the Tree of Life:

http://phylogeny.arizona.edu/tree/eukaryotes/green_plants/embryophytes/angiosperms/eudicots/lamiids/gesneriaceae/gesneriaceae.html

Smith, J. F. 2003. Floral morphology and pollination biology in Gesneriaceae. The Gloxinian. 53: 20-27.

Pages on Columnea for The Gesneriad Reference Web. (http://gesneriads.ca/Articles/Smith%20-%20Columnea/Smith-Columnea_Genus_Overview.htm)

Smith, J. F. 2009. Species in Saintpaulia. Gesneriads. (in press).

Manuscripts In Press/Review

Givnish, T. J., K. J. Milliam, A. Mast, T. B. Patterson, T. J. Theim, A. Hipp, J. M. Henss, J. F. Smith, K. Woods, and K. J. Sytsma. 2009. Origin, adaptive radiation, and diversification of the Hawaiian lobeliads (Asterales: Campanulaceae). submitted to Proceedings of the Royal Society of London Series B (in press).

Zhi Xia, Yin-Zheng Wang, and James F. Smith 2009 Familial Placement and Relationships of Rehmannia and Triaenophora (Scrophulariaceae sensu lato) Inferred from Five Different Gene Regions. American Journal of Botany (in press).

Smith, J. F. , A. J. Stillman, S. R. Larson. C. M. Culumber, I.C. Robertson , and S. J. Novak. Phylogenetic relationships among Lepidium papilliferum (L. Henderson) A. Nels & J. F. Macbr., L. montanum Nutt., and L. davisii Rollins (Brassicaceae). Journal of the Torrey Botanical Club (in revision).

Smith, J. F., D. N. Perkins, C. Bjork, and G. Glenne. AFLP analyses reveal species boundaries within *Pyrrocoma* (Asteraceae). submitted to *Brittonia*.

Manuscripts in Preparation

Woo, V. L., Smith, J. F., M. M. Funke, and P. J. Garnock-Jones. (in prep). Phylogenetic relationships in Coronanthereae (Gesneriaceae) reveal multiple introductions from South America into the Pacific. (to be submitted to *American Journal of Botany*).

Smith, J. F. and L. E. Skog. A revision of *Columnnea* sections *Ortholoma* and *Bucinellina* (Gesneriaceae).

Clark, J. L. and J. F. Smith. A multi-gene phylogenetic analysis of Episcieae (Gesneriaceae).

J. F. Smith. Phylogenetic analyses reveal two new genera in Episcieae.

Stillman, A. J. I. C. Robertson, J. F. Smith, and S. J. Novak. Assessing allozyme diversity and polyploidy in the rare southwestern Idaho endemic, *Lepidium papilliferum* (submitted to *Conservation Genetics*)

Perkins, D. N., M. Bechard, S. J. Novak and J. F. Smith. Population genetics of bald eagles (*Haliaeetus leucocephalus*) in southern Idaho: interactions of life history with reductions in population size. (submitted to *Molecular Ecology*)

Published Abstracts Of Papers Presented At Meetings

Smith, J. F. , A. C. Stevens, E. J. Tepe, and C. Davidson. 2008. Placing the origin of two species-rich genera in the late Cretaceous with later species divergence in the Tertiary: A phylogenetic, biogeographic and molecular dating of *Piper* and *Peperomia* (Piperaceae). Botany 2008, Vancouver, British Columbia, Canada. <http://www.botanyconference.org/engine/search/index.php?func=detail&aid=46>

Donahue, J., M. Scholten, N. Shaw, J. F. Smith, and M. Serpe. 2008. Differences in cold stratification requirements among populations of *Lomatium dissectum* seeds. Botany 2008, Vancouver, British Columbia, Canada. <http://www.botanyconference.org/engine/search/index.php?func=detail&aid=403>

Smith, J. F. , A. C. Stevens, and C. Davidson. 2008. Placing the origin of two species-rich genera in the late Cretaceous with later species divergence in the Tertiary: A phylogenetic, biogeographic and molecular dating of *Piper* and *Peperomia* (Piperaceae). Systematics 2008, Goettingen, Germany. http://www.systematics2008.com/index-Dateien/systematics2008_programme.htm

Stillman, A. J. I. C. Robertson, J. F. Smith, and S. J. Novak. Assessing allozyme diversity and polyploidy in the rare southwestern Idaho endemic, *Lepidium papilliferum* (Plant Biology and Botany 2007, Chicago, IL, p. 205).

Smith, J. F., A. J. Stillman, S. Larson, C. M. Culumber, I. C. Robertson, and S. J. Novak. A

- phylogenetic analysis of *Lepidium papilliferum* and *L. davisii* (Brassicaceae) reveal the relations of these rare endemic species. (Plant Biology and Botany 2007, Chicago, IL, p. 253).
- Smith, J. F., M. M. Funke, V. L. Woo, and P. J. Garnock-Jones. 2006 A molecular phylogenetic analysis of Coronanthereae (Gesneriaceae) reveals two independent invasions of the Pacific. Botany 2006 meetings, Chico, CA. p. 257.
- Givnish, T. J., K. J. Milliam, A. Mast, T. B. Patterson, T. J. Theim, A. Hipp, J. M. Henss, J. F. Smith, K. Woods, and K. J. Sytsma. 2006. Origin, adaptive radiation, and diversification of the Hawaiian lobeliads (Campanulaceae). Botany 2006 meetings, Chico, CA. p. 313.
- Stillman, A., I. Robertson, J. F. Smith, and S. J. Novak. 2005. Allozyme diversity in *Lepidium papilliferum* (Brassicaceae), a southwest Idaho endemic. Botany 2005 meetings, Austin, TX, p. 72.
- Smith, J. F., A. C. Stevens, C. Davidson. 2005. A phylogenetic analysis of Piperaceae focusing on its major geographic centers of diversification and placement of African species. Botany 2005 meetings, Austin, TX, p. 144.
- Duffy, A. M., M. M. Funke, J. L. Clark, and J. F. Smith. 2004. A phylogenetic analysis of the genera of tribe Episcieae (Gesneriaceae) from multiple loci. Botany 2004 meetings, Snowbird, UT p. 113.
- Stevens, A. C., A. Mollerup, W. S. Wong, C. Davidson, and J. F. Smith. 2004. Preliminary phylogenetic placement of African species of *Piper* (Piperaceae) using data from chloroplast DNA and low copy nuclear gene glyceraldehyde 3-phosphate dehydrogenase (G3pdh). Botany 2004 meetings, Snowbird, UT p. 145.
- Draper, S. B., and J. F. Smith 2003. Maximum information and minimum sequencing: resolving phylogenetic relationships among closely related species of *Columnnea* (Gesneriaceae) using multiple genes. Botany 2003 meetings, Mobile AL pp. 81-82
<http://www.botany2003.org/Abstract%20Book.pdf>
- Funke, M. M., and J. F. Smith 2003. Phylogenetic relationships of tribe Coronanthereae (Gesneriaceae): evidence from multiple genes. Botany 2003 meetings, Mobile AL p. 83
<http://www.botany2003.org/Abstract%20Book.pdf>
- Stevens, A. C., M. M. Funke, S. B. Draper, T. Zadorozhny, C. Davidson, A. Bornstein, and J. F. Smith. 2003. A preliminary phylogenetic analysis of Piperaceae using chloroplast and nuclear genes: utility of the low copy nuclear PEPC intron within sections *Enckea* and *Arctotonia* of *Piper*. Botany 2003 meetings, Mobile AL p. 100.
<http://www.botany2003.org/Abstract%20Book.pdf>
- Smith, James F. D. A. Baum, S. B. Draper, and L. C. Hileman. 2002. Floral evolution and phylogenetic analysis of tribes Gloxinieae and Gesnerieae (subfamily Gesnerioideae: Gesneriaceae) with an emphasis on *GCYC* (a Gesneriaceae *CYCLOIDEA* homolog). presented at Botany 2002 meetings in Madison, WI available at
<http://www.2002.botanyconference.org/cgi-bin/viewer02.pl>.

- Moore, R. L., J. F. Smith, and S. J. Novak. 2002. Association of mode of recruitment with landscape variability in *Populus tremuloides* (Salicaceae). presented at Botany 2002 meetings in Madison, WI available at <http://www.2002.botanyconference.org/cgi-bin/viewer02.pl>.
- Rausch, J. H., S. J. Novak, and J. F. Smith. 2002. Genetic variation in the invasive grass *Taeniatherum caput-meduase* (Poaceae): analysis of mating system. presented at Botany 2002 meetings in Madison, WI available at <http://www.2002.botanyconference.org/cgi-bin/viewer02.pl>.
- Smith, James F., David A. Baum, and Lena Hileman. 2001. Evolution and phylogenetic analysis of *GCYC* (a Gesneriaceae *CYCLOIDEA* homolog) in subfamily Gesnerioideae (Gesneriaceae). presented at Botany 2001 meetings in Albuquerque, NM. abstract available at <http://www.botany2001.org/section12/abstracts/17.shtml>
- Smith, James F. and Terry A. Bateman. 2000. Genetic differentiation of rare and common varieties of *Eriogonum shockleyi* (Polygonaceae) in Idaho using ISSR variability. Amer. J. Bot. 87 (6): 158.
- Smith, J. F., Q. C. B. Cronk, M. Kiehn, and W. L. Wagner. 1999. Adaptive radiation and phylogeny of Pacific *Cyrtandra* (Gesneriaceae) based on molecular and morphological data. XVI International Botanical Congress, St. Louis, USA.
- Smith, J. F. 1998. Phylogenetic resolution within the tribe Episcieae (Gesneriaceae): ITS and ndhF sequences. Amer. J. Bot. 85 (6): 156-157. (AIBS: Baltimore)
- Cronk, Q. C. B., J. F. Smith, and M. Kiehn. 1998. Preliminary Phylogenetic analysis of *Cyrtandra* (Gesneriaceae) based on ITS sequence data. Fourth International Flora Malesiana Symposium, Kuala Lumpur, Malaysia.
- Smith, J. F. and S. Atkinson. 1997. Phylogenetic analysis of the tribes Gloxinieae and Gesnerieae (Gesneriaceae): data from ndhF sequences. Amer. J. Bot. 84 (6): 232. (AIBS: Montreal)
- Novak, S. J., D. A. Murphey, J. M. Ott, and J. F. Smith. 1996. Allozyme diversity in the narrow endemic Allium aaseae (Alliaceae): comparisons with RAPD data. Amer. J. Bot. 83: 182-183. (AIBS: Seattle)
- Smith, J. F., K. D. Brown, C. L. Carroll, and D. S. Denton. 1996. Tribal relationships within the Gesneriaceae: an assessment of three data sets. Amer. J. Bot. 83: 192. (AIBS: Seattle)
- Smith, J. F., and J. C. Wolfram. 1995. Morphological and molecular cladistic relationships in the Gesneriaceae: Comparison and congruence. Amer. J. Bot. 82: 162. (AIBS: San Diego)
- Smith, J. F., C. C. Burke, and W. L. Wagner. 1995. Interspecific hybridization in natural populations of *Cyrtandra* (Gesneriaceae) on the Hawaiian islands: evidence from RAPD markers. American Journal of Botany 82: 162. (AIBS: San Diego)
- Smith, J. F., and J. J. Doyle. 1994. Cladistic analysis of morphology and chloroplast DNA

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Graduate Students:

Kirk A. Anderson: M. S. 2002, Interspecific hybridization in the seed-harvester ant
Pogonomyrmex (Hymenoptera: Formicidae).

Rylene Moore (current): Variation in clonal and sexual reproduction in aspen.

Morgan Peters (current co-chair with M. Bechard): Population genetics of Andean condors

Andrew Nadeau (current co-chair with M. Bechard): Population genetics of bald eagles in the
Pacific Northwest.

Danielle Clay (current chair): Potential hybridization in the rare endemic *Castilleja christii*

Professional Service

2008-present Managing Editor for Systematic Botany (journal of the American Society
of Plant Taxonomists)

2000-2008 Associate Editor for Systematic Botany (journal of the American Society
of Plant Taxonomists)

2003 Panelist for National Science Foundation Doctoral Dissertation
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2002 Panelist for National Science Foundation Doctoral Dissertation
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1998 Panelist for National Science Foundation Post-Doctoral Grants review