

## STACEY DEWITT SMITH

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### EDUCATION

- 2001-2006 Ph.D. in Botany, University of Wisconsin, Madison (Advisor: Dr. David Baum)  
1999-2001 M.Phil. in Botanical Diversity, Universities of Reading and Birmingham, UK  
1995-1999 BS, Biology & BA, Spanish, Virginia Polytechnic Institute & State University

### PROFESSIONAL EXPERIENCE

- Expected 2010 Assistant professor, School of Biological Sciences, University of Nebraska-Lincoln  
2007-2010 NIH NRSA Postdoctoral Fellow with Dr. Mark Rausher, Duke University  
2006-2007 Center for Genomics Postdoctoral Fellow with Dr. Mark Rausher, Duke University  
2006 Research Assistant to Dr. Bret Larget, UW-Madison. Bayesian Phylogenetics  
2002-2004 Research Assistant to Dr. David Baum, UW-Madison. Molecular systematics of Malvaceae. (Spring 2002, 2003; Summer 2004)  
2004 Trainer for new teaching assistants, Department of Botany, UW-Madison  
2003 New graduate student orientation leader, Department of Botany, UW-Madison  
2001-2004 Teaching Assistant, General Botany, UW-Madison (Fall 2001, 2002, 2004)  
1999 Teaching Assistant, Tropical Ecology Field Course in Costa Rica, Virginia Tech  
1997 Research Experience for Undergraduates with Dr. Catherine Pringle, University of Georgia and La Selva Biological Station. Tropical aquatic ecology.

### PUBLICATIONS

#### Books and Book Chapters

Baum, D. A., & **S. D. Smith**. *Tree-Thinking: A primer*. Roberts & Company, in prep.

**Smith, S. D.**, R.E. Miller, S. P. Otto, R. G. FitzJohn & M. D. Rausher. 2010. The Effects of Flower Color Transitions on Diversification Rates in Morning Glories (*Ipomoea* subg. *Quamoclit*, Convolvulaceae). In M. Long, ed. Darwin-China 2009. Peking University Press.

#### Peer-reviewed articles

J. A. McDonald, **S. D. Smith**, M. D. Rausher, J. R. McDill & B. B. Simpson. Evolutionary history of autogamy in North American *Ipomoea* (Convolvulaceae). *Am. J. Bot.*, in review.

M. Johnson, **S. D. Smith** & M. D. Rausher. 2010. The effects of plant sex on range distributions and allocation to reproduction. *New Phytologist*, in press.

- M. Johnson, **S. D. Smith** & M. D. Rausher. 2009. Plant sex and the evolution of plant defenses against herbivores. *Proc. Nat. Acad. Sci.* 106:18079-18084.
- Smith, S. D.**, C. Ané & D. A. Baum. 2009. Macroevolutionary tests of pollination syndromes: A reply to Fenster et al. *Evolution* 63: 2763-2767.
- Smith, S. D.**, D. A. Baum & V. J. Kolberg. 2008. Morphological and cytological evidence for homoploid hybridization in *Iochroma* (Solanaceae). *Madroño* 55: 280-284.
- Smith, S. D.**, P. R. Izquierdo S., S. J. Hall & D. A. Baum. 2008. Comparative pollination biology of sympatric and allopatric Andean *Iochroma* (Solanaceae). *Ann. Mo. Bot. Gard.* 95: 600-617.
- Paape, T., B. Igc, **S. D. Smith**, R. Olmstead, L. Bohs & J. R. Kohn. 2008. A 15-million-year-old genetic bottleneck. *Mol. Biol. Evol.* 25: 655-663.
- Smith, S. D.**, C. Ané & D. A. Baum. 2008. The role of pollinators in the floral diversification of *Iochroma* (Solanaceae). *Evolution* 62: 793-806.
- Smith, S. D.**, & D.A. Baum. 2007. Systematics of Iochrominae (Solanaceae): Patterns in floral diversity and interspecific crossability. *Acta Hort.* 745: 241-254.
- Ané, C., B. Larget, D. A. Baum, **S. D. Smith** & A. Rokas. 2007. Bayesian estimation of concordance among gene trees. *Mol. Biol. Evol.* 24: 412-426.
- Smith, S. D.**, & D. A. Baum. 2006. Phylogenetics of the florally diverse Andean clade Iochrominae (Solanaceae). *Am. J. Bot.* 93: 1140-1153.
- Smith, S. D.** 2006. Floral diversification and pollination biology of the Andean clade Iochrominae (Solanaceae). Ph.D. thesis, University of Wisconsin, Madison.
- Smith, S. D.**, & S. Leiva G. 2005. Recuento cromosómico y estado actual de *Dunalia spathulata* (R. & P.) Braun & Bouché (Solanaceae: Solaneae) endémica de Perú. *Arnaldoa* 12: 68-71.
- D. A. Baum, **S. D. Smith** & S. S. Donovan. Re: Comment on tree-thinking. *Science* (E-Letter, 22 March 2006) <http://www.sciencemag.org/cgi/eletters/310/5750/979>.
- D. A. Baum, **S. D. Smith** & S. S. Donovan. 2005. The tree-thinking challenge. *Science* 310: 979-980.
- D. A. Baum, **S. D. Smith**, A. Yen, W. S. Alverson, R. Nyffeler, B. A. Whitlock & R. L. Oldham. 2004. Phylogenetic relationships of Malvatheca (Bombacoideae & Malvoideae; Malvaceae sensu lato) as inferred from plastid DNA sequences. *Am. J. Bot.* 91: 1863-1871.
- S. D. Smith**, R. Cowan, K. B. Gregg, M.W. Chase, N. Maxted & M. F. Fay. 2004. Genetic discontinuities among populations of *Cleisthes* (Orchidaceae, Vanilloideae) in North America. *Bot. J. Linn. Soc.* 145: 87-95.
- S. D. Smith** & J. E. Bond. 2003. An analysis of the secondary structure of the mitochondrial large subunit rRNA gene (*16S*) in spiders and its implications for phylogenetic reconstruction. *J. Arachnol.* 31: 44-54.
- S. D. Smith** & I. E. Peralta. 2002. Ecogeographic surveys as tools for analyzing potential reproductive isolating mechanisms: An example using *Solanum juglandifolium* Dunal, *S. ochranthum* Dunal, *S. lycopersicoides* Dunal and *S. sitiens* I. M. Johnston. *Taxon* 51: 341-349.
- S. D. Smith** & S. Knapp. 2002. The natural history of reproduction in *Solanum* and *Lycianthes* (Solanaceae) in a subtropical moist forest. *Bull. Nat. Hist. Mus. Bot.* 32: 125-136.

## AWARDS/GRANTS

- 2007 NIH Ruth L. Kirschstein Postdoctoral National Research Service Award
- 2006 Molecular Evolution and Comparative Genomics Postdoctoral fellowship, IGSP Center for Evolutionary Genomics, Duke University (\$95,000 over 2 years)
- 2006 Outstanding student talk, Intl. Solanaceae Conference, Madison, WI (\$300)
- 2005 O. N. Allen Fellowship, UW-Madison: To support doctoral research (\$6000)
- 2004 Vilas Travel Grant, UW-Madison: To attend Evolution 2004 (\$600)
- 2003 NSF Doctoral Dissertation Improvement Grant (\$11,590)  
Marie Christine Kohler Fellowship for dissertators, UW-Madison (approx. \$15,000)  
Travel grant for Plant Speciation Symposium, Antigonish, Nova Scotia (\$400)
- 2002 John Jefferson Davis Graduate Research Award, UW-Madison (\$1825)  
Tinker-Nave Short Term Field Research Grant, UW-Madison (\$2040)  
American Society of Plant Taxonomists Graduate Research Award (\$750)  
Ruth Dickie Grants-In-Aid for Graduate Women in Science, UW-Madison (\$500)
- 1999 British Marshall Scholarship for postgraduate studies in the United Kingdom (approx. \$60,000 over 2 years)  
Outstanding Senior Award in Spanish and in Biology, Virginia Tech (\$500 each)
- 1998 Morris K. Udall National Scholarship (\$5000)  
Sigma Xi, Scientific Grants-in-Aid of Research (\$500)
- 1997 Daughtrey Scholarship, Virginia Tech, for sophomore study abroad (\$10,000)  
Biological Sciences Initiative Grant, Virginia Tech (\$1000)

## PAPER PRESENTATIONS AT PROFESSIONAL MEETINGS

- S. D. Smith.** 2009. Macroevolutionary tests of pollination syndromes. VI International Solanaceae Conference. European Society for Evolutionary Biology, Turin, Italy.
- M. Johnson, **S. D. Smith** and M. D. Rausher. 2009. Plant sex and the evolution of plant defenses against herbivores. Ecological Society of America, Albuquerque, New Mexico.
- S. D. Smith** & M. D. Rausher. 2008. Evolutionary genetics of floral anthocyanin production in *Iochroma* (Solanaceae). Society for the Study of Evolution, Minneapolis, Minnesota.
- S. D. Smith.** 2006. Systematics of Iochrominae (Solanaceae): Dual challenges of diversification and hybridization. VI International Solanaceae Conference, Madison, Wisconsin.
- S. D. Smith**, B. Larget, C. Ane & D. A. Baum. 2006. Bayesian estimation of concordance among genes: an example with *Gossypium*. Society for the Study of Evolution, Stony Brook, New York.
- S. D. Smith** & D. A. Baum. 2005. Floral diversification and comparative pollination biology in the Andean clade Iochrominae (Solanaceae). Society for the Study of Evolution, Fairbanks, Alaska.

**S. D. Smith** & D. A. Baum. 2005. Floral diversification and hybridization in the Andean subtribe *Iochrominae* (Solanaceae). Botanical Society of America, Austin, Texas.

## **INVITED SEMINARS**

“Testing pollinator-mediated floral diversification in Andean Solanaceae”, Biology Seminar, East Carolina University, 2009.

“Floral evolution and diversification in Andean *Iochroma* (Solanaceae).” Plant Biology Seminar, University of Minnesota, 2009.

“Floral evolution and diversification in Andean *Iochroma* (Solanaceae).” Biological Sciences Seminar, University of Nebraska-Lincoln, 2008.

“Mechanisms of floral diversification: Studies of the Andean Clade *Iochrominae* (Solanaceae).” Biology Seminar, Central Connecticut State University, 2008.

“Systematics of *Iochrominae* (Solanaceae): Dual challenges of diversification and hybridization.” VI International Solanaceae Conference, Madison, WI. 2006.

“Seeking the Origins of Floral Diversity: A Case Study in the Nightshade Family, Solanaceae.” Knapp House, Madison, WI. 2005.

“Como podemos reconciliar la taxonomía con la evolución? [How can we reconcile taxonomy with evolution?].” Natural History Museum, Universidad Nacional Mayor de San Marcos, Lima, Peru.

## **SERVICE**

- 2009 DNA Day Ambassador, North Carolina Public Schools
- 2008 School Days Presenter (discussing scientific research with local teens), Durham Middle Schools, Durham, NC  
Invited faculty member, Graduate-level field course in Tropical Plant Systematics, Organization for Tropical Studies, Costa Rica
- 2007 Science Day presenter, Durham Elementary School System, Durham, NC
- 2004-2006 Evolution Initiative Coordinating Committee, UW-Madison  
Darwin Day volunteer
- 2005 Guest lecturer for Biocore 301 (Ecology, Evolution and Genetics), Center for Biology Education, UW-Madison
- 2003-2006 Evolution Reading Group Coordinator, UW-Madison
- 2002-2003 Ways of Knowing Research Exploration Host (for undergraduates), Center for Biology Education, UW-Madison

## **SERVICE AS A REVIEWER**

Journals:

*American Journal of Botany*

*Australian Journal of Botany*

*Evolution*

*Molecular Biology and Evolution*

*New Phytologist*

*Plant Systematics and Evolution*

*The Plant Journal*

Granting Organizations:

National Geographic Society

National Science Foundation

## **AFFILIATIONS**

European Society for Evolutionary Biology

Society for the Study of Evolution

Society of Systematic Biologists

Phi Beta Kappa National Arts & Sciences Honor Society