

Sara B. Hoot

CURRICULUM VITAE

Employment:

2013-	Professor Emerita
2007-2013	Professor Department of Biological Sciences University of Wisconsin-Milwaukee
2000-2007	Associate Professor Department of Biological Sciences University of Wisconsin-Milwaukee
1994-2000	Assistant Professor Department of Biological Sciences University of Wisconsin-Milwaukee
1994-	Research Associate Department of Botany Field Museum Roosevelt Road at Lake Shore Drive Chicago, IL 60605
1991-1994	Research Associate/Postdoc Department of Geology Field Museum Roosevelt Road at Lake Shore Drive Chicago, IL 60605
1993	Research Associate Jodrell Laboratory, Molecular Systematics Group Royal Botanic Gardens Kew, Richmond Surrey, TW9 3AE (four month appointment)

Education:

Ph.D., Systematic Botany
Department of Biology, University of Michigan. 1985-91
Dissertation:
Phylogenetic Relationships in *Anemone* (Ranunculaceae) Based on Morphology and Chloroplast DNA Variation. Co-advisors: Dr. A. Reznicek, Dr. J. Palmer, Dr. W. Anderson

M.S., Botany
Department of Biology, The Pennsylvania State University. 1983-85
Master's Thesis: A Numerical Analysis of Foliar Microcharacters in the Ranunculaceae. Co-advisors: Dr. C. Keener and Dr. C. Hillson

Teaching Experience:

1994- Professor, University of Wisconsin-Milwaukee
1994 Instructor, University of Chicago
1988, 89 Instructor, University of Michigan

Professional Service:

2001-06 Participant in Deep Time, an NSF funded group of plant systematists and paleobotanists explored ways to integrate fossil data into phylogenetic analyses of extant taxa.
2000 National Science Foundation, Division of Environmental Biology, Systematic Biology Spring Advisory Panel
1997 National Science Foundation, Division of Environmental Biology, Systematic Biology Spring Advisory Panel
1997-98 American Society of Plant Taxonomists, Honors Committee

Grants:

2010 Meyer, G. A. (Principal), Hoot, S. B. (Co-Principal), Phillips, M. M. (Co-Principal). sponsored by Research Growth Initiative (RGI), awarding organization University of Wisconsin-Milwaukee. \$51,802.00 (July 2010 - June 2011). Genetic structure of an invasive plant in its native and introduced ranges.
2009 Hoot, S. B. Research Experiences for Undergraduates (REU) Supplement to DEB 0542679, \$7500.00
2008 Hoot, S. B. Research Experiences for Undergraduates (REU) Supplement to DEB 0542679, \$7000.00
2007 Hoot, S. B. Research Experiences for Undergraduates (REU) Supplement to DEB 0542679, \$5954.00.
2006-10 Hoot, S. B. National Science Foundation, Phylogenetic Systematics. \$200,001.00. Fund 144-PL54. Phylogeny and Evolution of Ranunculales: An Integrative Approach.
2004 Hoot, S. B. National Science Foundation, Systematic Biology. \$41,114.00, Fund 144-JG68. Collaborative Research: Species Delimitation and Phylogenetic Relationships within *Isoetes* (Isoëtaceae) Using Multiple Data Sets. Supplemental Award.
2003 Hoot, S. B. Informal grant from Prentice Hall to employ someone to assist me with lab and office work, Spring Semester. This was one of the conditions of my agreement with Prentice Hall to help rewrite the botany chapters in the textbook, Biology, by Scott Freeman. \$4000.00.

- 2002 Hoot, S. B. Research Experiences for Undergraduates (REU) Supplement to DEB 9981460, \$10,350.00. Funding from June 15, 2002 to Dec. 31, 2003.
- 2000- 2003 Hoot, S. B. National Science Foundation , Systematic Biology, \$200,000.00. Collaborative research: Species delimitation and phylogenetic relationships within *Isoetes* (Isoëtaceae) using multiple data sets.
- 1997-1999 Hoot, S. B. U.S. Fish and Wildlife Service, Atlanta, GA, \$24,104.00. Genetic Variation and Phylogenetic Relationships of *Isoetes louisianensis*, Louisiana Quillwort
- 1996 Hoot, S. B. Graduate Student Research Committee, University of Wisconsin-Milwaukee, \$9,958.00. Evolutionary and Phylogeographic Patterns in the Proteaceae Based on Molecular Data
- 1995 Hoot, S. B. National Science Foundation, Supplemental Support, "Research Experiences for Undergraduates", \$5000.00.
- 1993-1996 Hoot, S. B. National Science Foundation, Biotic Systems and Resources (Systematic Botany), \$124,645.00. Phylogenetic Relationships of the Ranunculidae and Basal Hamamelidae: Implications for the Early Evolution of Non-Magnoliid Dicotyledons

Awards:

- 1990 Delzie Demaree Travel Award. Awarded to attend the Annual Systematics Symposium at the Missouri Botanical Garden.
- Emma J. Cole Fellowship. Summer stipend.
- 1989-90 Rackham Predoctoral Fellowship. Tuition and living expenses.
- 1988-90 Botany Block Grants. Laboratory expenses.
- 1987 Botany Block Grant. Used to collect specimens, visit herbaria in Europe.
- 1984 Hill Memorial Fund Award. SEM expenses.

Publications:

- Wefferling, K. M., S. B. Hoot, and S. S. Neves. 2013. Phylogeny and fruit evolution in Menispermaceae. *American Journal of Botany* 100: 883-905.
- Hoot, S. B., K. M. Meyer, and J. D. Manning. 2012. Phylogeny and reclassification of *Anemone* (Ranunculaceae), with an emphasis on austral species. *Systematic Botany* 37: 139-152.

- Herrera, F., S. R. Manchester, S. B. Hoot, K. Wefferling, M. R. Carvalho, and C. Jaramillo. 2011. Paleocene Menispermaceae endocarps from northern South America reveal broader distributions for extinct North American taxa and extant African-Australasian lineages. *American Journal of Botany* 98: 2004-2017.
- Meyer, K. M., S. B. Hoot, and M. T. K. Arroyo. 2010. Phylogenetic affinities of South American *Anemone* (Ranunculaceae), including the endemic segregate genera *Barneoudia* and *Oreithales*. *International Journal of Plant Science* 171: 323-331.
- Manning, J. D., P. Goldblatt, and S. B. Hoot. 2009. Notes on African plants (Ranunculaceae): the genus *Knowltonia* subsumed within *Anemone*. *Bothalia* 39: 217-219.
- Matter, A. M., S. B. Hoot, P. D. Anderson, S. S. Neves, and Y.-Q. Cheng. Valinomycin biosynthetic gene cluster in *Streptomyces*: Conservation, ecology and evolution. *PLoS ONE* 4: 1-10.
- Hoot, S. B. 2009. Charles Darwin: Botanist. *Reports of the National Center for Science Education* 29: 19-21.
- Ford, C. S., K. L. Ayres, N. Toomey, N. Haider, J. Van Alphen Stahl, L. J. Kelly, N. Wikström, P. M. Hollingsworth, R. J. Duff, S. B. Hoot, R. S. Cowan, M. W. Chase, and M. J. Wilkinson. 2009. Selection of candidate coding DNA barcoding regions for use in land plants. *Botanical Journal of the Linnean Society* 159: 1-11.
- Ahmad, S. M., S. B. Hoot, P. H. Qazi, and V. Verma. 2009. Phylogenetic patterns and genetic diversity of Indian *Tinospora* species based on chloroplast sequence data and cytochrome P450 polymorphisms. *Plant Systematics and Evolution* 281: 87-96.
- Hoot, S. B., H. Zautke, D. J. Harris, P. R. Crane, and S. S. Neves. 2009. Phylogenetic patterns in Menispermaceae based on multiple chloroplast sequence data. *Systematic Botany* 34: 44-56.
- Hoot, S. B., J. Kramer, and M. T. K. Arroyo. 2008. Phylogenetic position of the South American dioecious genus, *Hamadryas*, and related Ranunculaceae (Ranunculaceae). *International Journal of Plant Sciences* 169: 433-443.
- Hoot, S. B., W. C. Taylor, and N. S. Napier. 2006. Phylogeny and biogeography of *Isoëtes* based on nuclear and chloroplast DNA sequence data. *Systematic Botany* 31: 449-460.
- Schuettpelz, E. and S. B. Hoot. 2006. Inferring the root of *Isoëtes*: Exploring the alternatives in the absence of an acceptable outgroup. *Systematic Botany* 31: 258-270.
- Weigend, M., M. Gottschling, S. Hoot, and M. Ackermann. 2004. A preliminary phylogeny of Loasaceae subfam. Loasoideae (Angiospermae: Cornales) based on *trnL*_{tr} sequence data, with consequences for systematics and historical biogeography. *Organisms, Diversity and Evolution* 4: 73-90.
- Hoot, S. B., N. S. Napier, and W. C. Taylor. 2004. Revealing unknown or extinct lineages within *Isoëtes* (Isoëtaceae) using DNA sequences from hybrids. *American Journal of Botany* 91: 899-904.
- Schuettpelz, E. and S. B. Hoot. 2004. Phylogeny and biogeography of *Caltha* (Ranunculaceae) based on chloroplast and nuclear DNA sequences. *American Journal of Botany* 91: 247-253.

- Taylor, W. C., A. R. Lekschas, Q. F. Wang, X. Liu, N. S. Napier, and S. B. Hoot. 2004. Phylogenetic relationships in *Isoetes* (Isoëtaceae) in China revealed by nucleotide sequences of the nuclear ribosomal ITS region and the second intron of a *LEAFY* homolog. *American Fern Journal* 94: 196-205.
- Schuettpeiz, E., S. B. Hoot, R. Samuel, and F. Ehrendorfer. 2002. Multiple origins of Southern Hemisphere *Anemone* (Ranunculaceae) based on plastid and nuclear sequence data. *Plant Systematics and Evolution* 231: 142-151.
- Walsh, B. M. and S. B. Hoot. 2001. Phylogenetic relationships of *Capsicum* (Solanaceae) using DNA sequences from two noncoding regions: The chloroplast *atpB-rbcL* spacer region and nuclear *waxy* introns. *International Journal of Plant Sciences* 162: 1409-1418.
- Hoot, S. B. and W. C. Taylor. 2001. The utility of nuclear ITS, a *LEAFY* homolog intron, and chloroplast *atpB-rbcL* spacer region data in phylogenetic analyses and species delimitation in *Isoetes*. *American Fern Journal* 91: 166-177.
- Soltis, D. E., P. S. Soltis, M. W. Chase, M. E. Mort, D. C. Albach, M. Zanis, V. Savolainen, W. H. Hahn, S. B. Hoot, M. F. Fay, M. Axtell, S. M. Swenson, K. C. Nixon, and J. S. Farris. 2000. Angiosperm phylogeny inferred from a combined data set of 18S rDNA, *rbcL*, and *atpB* sequences. *Botanical Journal of the Linnaean Society* 133: 381-461.
- Savolainen, V., M. W. Chase, S. B. Hoot, C. M. Morton, D. E. Soltis, C. Bayer, M. F. Fay, A. de Bruijn, S. Sullivan, and Y.-L. Qiu. 2000. Phylogenetics of flowering plants based upon a combined analysis of plastid *atpB* and *rbcL* gene sequences. *Systematic Biology* 49: 306-362.
- Hoot, S. B., S. Magallón, and P. R. Crane. 1999. Phylogeny of basal eudicots based on three molecular data sets: *atpB*, *rbcL*, and 18S nuclear ribosomal DNA sequences. *Annals of the Missouri Botanical Garden* 86: 1-32.
- Angiosperm Phylogeny Group (consists of 29 plant systematists, including S. B. Hoot). 1998. An ordinal classification for the families of flowering plants. *Annals of the Missouri Botanical Garden* 85: 531-567.
- Hoot, S. B. and A. W. Douglas. 1998. Phylogeny of the Proteaceae based on *atpB* and *atpB-rbcL* spacer region sequences. *Australian Systematic Botany* 11: 301-320.
- Qiu, Y.-L., M. W. Chase, S. B. Hoot, E. Conti, P. R. Crane, K. J. Sytsma, and C. R. Parks. 1998. Phylogenetics of the Hamamelidae and their allies: Parsimony analyses of nucleotide sequences of the plastid gene *rbcL*. *International Journal of Plant Sciences* 159: 881-890.
- Soltis, D. E., P. S. Soltis, M. Mort, M. W. Chase, V. Savolainen, S. B. Hoot, and C. M. Morton. 1998. Inferring complex phylogenies using parsimony: An empirical approach using three large DNA data sets for Angiosperms. *Systematic Biology* 47: 32-42.
- Hoot, S. B., J. W. Kadereit, F. R. Blattner, K. B. Jork, A. E. Schwarzbach, and P. R. Crane. 1997. Data congruence and phylogeny of the Papaveraceae s.l. based on four data sets: *atpB* and *rbcL* sequences, *trnK* restriction sites, and morphological characters. *Systematic Botany* 22: 575-590.
- Soltis, D. E., P. S. Soltis, D. L. Nickrent, L. A. Johnson, W. J. Hahn, S. B. Hoot, J. A. Sweere, R. K. Kuzoff, K. A. Kron, M. W. Chase, S. M. Swenson, E. A. Zimmer, S.-M. Chaw, L. J. Gillespie, W. J. Kress, and K. J. Sytsma. 1997. Angiosperm phylogeny inferred from 18S ribosomal DNA sequences. *Annals of the Missouri Botanical Garden* 84:1-49

- Gadek, P. A., E. S. Fernando, C. J. Quinn, S. B. Hoot, T. Terrazas, M. C. Sheahan, and M. W. Chase. 1996. Sapindales: Molecular delimitation and infraordinal groups. *American Journal of Botany* 83: 802-811.
- Hoot, S. B. 1995. Phylogeny of the Ranunculaceae based on preliminary *atpB*, *rbcL* and 18S nuclear ribosomal DNA sequence data. *Plant Systematics and Evolution* (Suppl.) 9: 241-251.
- Hoot, S. B., Culham, A., and P. R. Crane. 1995. The utility of *atpB* gene sequences in resolving phylogenetic relationships: Comparisons with *rbcL* and 18S ribosomal DNA sequences in the Lardizabalaceae. *Annals of the Missouri Botanical Garden* 82:194-207.
- Hoot, S. B. and P. R. Crane. 1995. Inter-familial relationships in the Ranunculidae based on molecular systematics. *Plant Systematics and Evolution* (Suppl.) 9: 119-131.
- Hoot, S. B. 1995. Phylogenetic relationships in *Anemone* (Ranunculaceae) based on DNA restriction site variation and morphology. *Plant Systematics and Evolution* (Suppl.) 9: 295-300.
- Hoot, S. B., A. Culham, and P. R. Crane. 1995. Evolutionary relationships of the Lardizabalaceae and Sargentodoxaceae: Chloroplast and nuclear DNA sequence evidence. *Plant Systematics and Evolution* (Suppl.) 9: 195-199.
- Jensen, U., S. B. Hoot, J. T. Johansson, and K. Kosuge. 1995. Systematics and phylogeny of the Ranunculaceae - a revised family concept on the basis of molecular data. *Plant Systematics and Evolution* (Suppl.) 9: 273-280.
- Chase, M. W., M. R. Duvall, H. G. Hillis, H. G. Conran, A. V. Cox, L. E. Eguiarte, J. Hartwell, M. F. Fay, L. R. Caddick, K. M. Cameron, and S. B. Hoot. 1995. Molecular phylogenetics of Liliales. In P. J. Rudall, P. J. Cribb, D. F. Cutler & C. J. Humphries (Eds.). *Monocotyledons: Systematics and Evolution*: pp. 109-137.
- Hoot, S. B., J. D. Palmer, and A. A. Reznicek. 1994. Phylogenetic relationships in *Anemone* based on morphology and chloroplast DNA variation. *Systematic Botany* 19: 169-200.
- Hoot, S. B. and J. D. Palmer. 1994. Structural rearrangements, including parallel inversions, within the chloroplast genome of *Anemone* and related genera. *Journal of Molecular Evolution* 38: 274-281.
- Drinnan, A. N., P. R. Crane, and S. B. Hoot. 1994. Patterns of floral evolution in the early diversification of non-magnoliid dicotyledons (eudicots). *Plant Systematics and Evolution* (Suppl.) 8: 93-122.
- Hoot, S. B. 1991. Phylogeny of the Ranunculaceae based on epidermal microcharacters and macromorphology. *Systematic Botany* 16: 741-755.

Manuscripts in Preparation:

- Hoot, S. B., K. M. Wefferling, N. R. Anterianus, and J. A. Wulff. Phylogeny of Papaveraceae s.l.

Invited Research Presentations:

- 2009 Charles Darwin: Botanist and Evolutionist (200th birthday). Presented by S. B. Hoot. UWM Biological Sciences Departmental Colloquium
- 2008 In the Garden with Darwin: His Botanical Exploits. Presented by S. B. Hoot. The Bonnie C. Templeton Lecture in Plant Systematics, Department of Botany and Plant Pathology, Oregon State University, Corvallis OR
- 2006 Promiscuity in *Isoetes*: Why can't they just say "No"? Presented by S. B. Hoot. Special invitation, Yale University, New Haven, CT.
- 2005 Biogeography of the early eudicots. S. B. Hoot. XVII International Botanical Congress, Vienna, Austria.
- 2004 Phylogeny and biogeography of *Isoetes* on oceanic and terrestrial islands. W. C. Taylor, S. B. Hoot, and N. S. Napier, presented by W. C. Taylor and S. B. Hoot. Symposium on The Power of Two: Marrying Phylogeny and Biogeography to Reconstruct the Evolutionary History of Pteridophytes. Botany 2004, American Fern Society and Biological Society of America, Pteridological Section, Annual Meetings, Snowbird, UT.
- Unraveling a Tangled Web: Phylogeny and hybrid origins in *Isoetes*. Coauthors: S. B. Hoot, W. C. Taylor, and N. S. Napier, presented by S. B. Hoot. The Field Museum Seminar Series, Chicago, IL.
- Unraveling a Tangled Web: Phylogeny and hybrid origins in *Isoetes*. Coauthors: S. B. Hoot, W. C. Taylor, and N. S. Napier, presented by S. B. Hoot. Special invitation, Cornell University, Ithaca, NY.
- Promiscuity in *Isoetes*: Why can't they just say "No"? University of Wisconsin-Milwaukee, Department of Biological Sciences Colloquium Series.
- 2003 Phylogeny and biogeography of alpine *Anemone* species. S. B. Hoot. Colloquium on Biogeography of Alpine Plants on the Large Scale: Current Stage and Prospects, Botany 2003, American Society of Plant Taxonomists, Annual Meetings, Mobile, AL.
- Unraveling a Tangled Web: Phylogeny and hybrid origins in *Isoetes*. Coauthors: S. B. Hoot, W. C. Taylor, and N. S. Napier, presented by S. B. Hoot. Systematic Biology Colloquium Series, Duke University, Durham, NC.
- 2002 Unraveling a Tangled Web: Phylogeny and Hybrid Origins in *Isoetes*. Coauthors: S. B. Hoot, W. C. Taylor, and N. S. Napier, presented by S. B. Hoot. Presented during sabbatical at following locations:
University of Mainz, Germany
Institute of Systematic Botany, University of Zurich, Zurich, Switzerland
Western Australia Herbarium, Perth, Australia
Royal Botanic Gardens, Sydney, Australia
Department of Botany and Zoology, Australian National University, Canberra, Australia.
- 2000 Phylogeny of the basal eudicots. University of Colorado (Boulder), Department of Environmental, Population, and Organismic Biology Colloquium Series.

Quillwort Conference 2000: The Ecology and Evolution of *Isoetes* in the New Millennium, Old Dominion University, Norfolk, Virginia

- 1999 Phylogeny of the basal eudicots based on three sequence data sets: *atpB*, *rbcL*, and 18S DNA. Coauthors: S. B. Hoot, S. Magallón, and P. R. Crane, presented by S. B. Hoot. XVI International Botanical Congress, St. Louis.

Flower evolution in Proteaceae and its relatives. A. W. Douglas and S. B. Hoot. Presented by A. W. Douglas. XVI International Botanical Congress, St. Louis.

Relationships of basic diploid and allotetraploid *Isoetes* species from nuclear ITS and *LFY* sequences. S. Hoot first author, presented by W. C. Taylor. Symposium on "Evolution and Diversification of the Lycopods". XVI International Botanical Congress, St. Louis.

Systematics of *Cocculus* (Menispermaceae). Poster presented by P. J. White and S. Hoot at XVI International Botanical Congress, St. Louis

- 1998 The use of AFLP data in the conservation of an endangered plant species, *Isoetes louisianensis*. Symposium on "Conservation Biology of Pteridophytes". Botanical Society of America, Annual Meetings, Baltimore, MD.

The flowering plant family Proteaceae revisited: What molecular sequence data tell us. UW-Milwaukee Department of Biological Sciences Colloquium

- 1997 Evolutionary relationships of *Isoetes* species based on ITS sequences. Symposium on "Changing Perceptions on Quillworts". Presented jointly by S. B. Hoot and W. C. Taylor, Botanical Society of America, Annual Meetings, Montreal, Canada.

Phylogenetic patterns in Proteaceae based on *atpB* and *atpB/rbcL* spacer region sequence data. L. H. Bailey Hortorium Colloquium, Cornell University, Ithaca.

Phylogenetic patterns in Proteaceae based on *atpB* and *atpB/rbcL* spacer region sequences. UW-Madison Botany Colloquium.

Patterns of floral evolution in the early diversification of eudicots. Coauthors: P. R. Crane and S. B. Hoot, presented by P. R. Crane. Keystone Symposia, Evolution of Plant Development, Taos, New Mexico.

- 1996 Phylogeny of the Proteaceae based on *atpB* and *atpB/rbcL* spacer region sequence data. International Symposium on the Biology of Proteaceae, The 1996 Commemorative Conferences of the Royal Botanic Gardens, Melbourne, Australia.

A comparison of results from 18S nuclear ribosomal DNA sequences with two chloroplast genes (*atpB* and *rbcL*). Symposium on "The Use of 18S rRNA Sequences in Plant Phylogeny". Botanical Society of America, Annual Meetings, Seattle, WA.

- 1994 Phylogeny of the Ranunculaceae based on *rbcL* and *atpB* gene sequences. International symposium on "The Systematics and Evolution of the Ranunculiflorae", Universität Bayreuth, Bayreuth, Germany.

An overview of ranunculid evolution, including phylogenies based on *rbcL*, *atpB*, and 18S ribosomal DNA gene sequences. International symposium on "The Systematics and Evolution of the Ranunculiflorae", Universität Bayreuth, Bayreuth, Germany.

Phylogenetic relationships in *Anemone* (Ranunculaceae) based on DNA restriction site variation and morphology. International symposium on "The Systematics and Evolution of the Ranunculiflorae", Universität Bayreuth, Bayreuth, Germany.

Phylogeny of the Lardizabalaceae based on *rbcL*, *atpB*, and 18S ribosomal DNA gene sequences. Joint presentation by A. Culham, S. Hoot and P. Crane at the international symposium on "The Systematics and Evolution of the Ranunculiflorae", Universität Bayreuth, Bayreuth, Germany.

Phylogeny of the Lardizabalaceae based on *rbcL*, *atpB*, and 18S ribosomal DNA gene sequences. Department of Biology Seminar Series, Indiana University.

- 1993 Phylogenetic relationships of the Lardizabalaceae based on *rbcL*, *atpB*, and 18S ribosomal DNA gene sequences. Symposium on "Alternative Genes in Phylogenetic Reconstruction". American Society of Plant Taxonomists, Annual Meeting, Ames, IA.

Phylogeny of the buttercup family (Ranunculaceae) based on molecular and morphological data. Biology Seminar Series, DePaul University, Chicago, IL.

Paleobotanical and floral developmental insights into the early diversification of nonmagnoliid dicotyledons. Presented by A. N. Drinnan, coauthors P. R. Crane and S. B. Hoot. International Botanical Congress, Tokyo.

Contributed Papers at National or International Meetings:

- 2008 Hoot, S. B., J. A. Wulff, and S. S. Neves. Presented by S. Hoot. Phylogeny of Ranunculales based on multiple sequence data and morphology. Botany 2008, American Society of Plant Systematics, Annual Meetings, Vancouver, Canada.
- 2007 Neves, S. S. and S. B. Hoot. Presented by S. Neves. Evolution and systematics of Menispermaceae based on plastid DNA sequences. Botany 2007, American Society of Plant Systematics, Annual Meetings, Chicago, IL.
- 2006 Hoot, S. B., Taylor, W. C., and N. S. Napier. Presented by S. B. Hoot. The key players in *Isoetes* hybridization events in North America. Botany 2006, American Society of Plant Taxonomists, Annual Meetings, Chico, CA. Abstract published in *American Journal of Botany* 93, Supplement.
- Taylor, W. C. and S. B. Hoot. Presented by W. C. Taylor. Phylogeny and biogeography of *Isoetes*. Botany 2006, American Fern Society, Annual Meetings, Chico, CA. Abstract published in *American Journal of Botany* 93, Supplement.
- 2004 Phylogeny of *Isoetes* taxa based on nucleotide sequences of the nuclear ribosomal ITS region and the second intron of a *LEAFY* homologue. W. C. Taylor, S. B. Hoot, presented by W. C. Taylor. Ferns for the 21st Century, Royal Botanic Garden, Edinburgh, Scotland.
- 2003 Phylogeny of Chinese *Isoetes* species as indicated by chromosome numbers and nucleotide sequences of the nuclear ribosomal ITS region and second intron of a *LEAFY* homolog. W. C. Taylor, A. R. Lekschas, N. T. Luebke, Q.-F. Wang, X. Liu, S.B. Hoot, N. Napier, presented by W. C. Taylor. Botany 2003, American Fern Society, Annual Meetings, Mobile, AL.

- 2002 Unraveling a tangled web: hybrid and allopolyploid origins in *Isoetes*. Coauthors: N. S. Napier, S. B. Hoot, and W. C. Taylor, presented by S. B. Hoot. Botany 2002, American Society of Plant Taxonomists, Annual Meetings, Madison, WI.
- Phylogeny and allopolyploidy of South American *Isoetes* based on morphology, chromosome counts, and DNA sequences. Coauthors: W. C. Taylor, N. T. Luebke, and S. B. Hoot. Botany 2002, American Fern Society, Annual Meetings, Madison, WI.
- 2001 Parental species of *Isoetes* allotetraploids, including “dead-beat” parents. Coauthors: S. B. Hoot, W. C. Taylor, and N. S. Napier, presented by S. B. Hoot. Botany 2001, American Fern Society, Annual Meetings, Albuquerque, NM.
- Phylogenetic relationships within *Caltha* (Ranunculaceae) based on three molecular data sets and morphology. Coauthors: E. J. Schuettpelz and S. B. Hoot, presented by E. J. Schuettpelz. Botany 2001, American Society of Plant Taxonomists, Annual Meetings, Albuquerque, NM.
- 2000 Species delimitation and hybrid origins in North American *Isoetes* based on *LEAFY* intron data. Coauthors: S. B. Hoot, W. C. Taylor, and E. Wagner, presented by S. B. Hoot. American Society of Plant Taxonomists, Annual Meetings, Portland, OR.
- Evolutionary relationships and biogeography of *Isoetes* based on nucleotide sequences. Coauthors: W. C. Taylor and S. B. Hoot, presented by W. C. Taylor. American Society of Plant Taxonomists, Annual Meetings, Portland, OR.
- Phylogeny and biogeography of *Anemone* (Ranunculaceae) in the Southern Hemisphere based on molecular data. Coauthors: E. J. Schuettpelz and S. B. Hoot, presented by E. J. Schuettpelz. American Society of Plant Taxonomists, Annual Meetings, Portland, OR.
- 1998 Origin of the Louisiana Quillwort *Isoetes louisianensis*. Coauthors: W. C. Taylor and S. B. Hoot, presented by W. C. Taylor. American Fern Society, Annual Meetings, Baltimore, MD.
- 1997 Evolutionary relationships of the “basal” eudicots based on three sequence data sets: *atpB*, *rbcL*, and 18S ribosomal DNA. Coauthors: S. B. Hoot, S. Magallon-Puebla, and P. R. Crane, presented by S. B. Hoot. American Society of Plant Taxonomists, Annual Meetings, Montreal, Canada.
- Inferring complex phylogenies: an empirical approach using three large DNA data sets for angiosperms. Coauthored with six other authors, presented by M. D. Mort. American Society of Plant Taxonomists, Annual Meetings, Montreal, Canada.
- Large DNA sequence matrices, phylogenetic signal, and feasibility: an empirical approach. Coauthored with seven other authors, presented by M. W. Chase. American Society of Plant Taxonomists, Annual Meetings, Montreal, Canada.
- 1996 Species relationships in North American *Isoetes* (Isoëtaceae) using ITS sequences. Coauthors: S. B. Hoot and W. C. Taylor, presented by W. C. Taylor. American Fern Society, Annual Meetings, Seattle, WA.
- An examination of phylogenetic patterns of plastid *atpB* gene sequences among eudicots. Coauthors: V. Savolainen, C. M. Morton, S. B. Hoot, and M. W. Chase, presented by V. Savolainen. American Society of Plant Taxonomists, Annual Meetings, Seattle, WA.

- 1995 Phylogenetic relationships and floral morphology in the family Circaeasteraceae (*Circaeaster* and *Kingdonia*). American Society of Plant Taxonomists and American Society of Biological Sciences Annual Meetings, San Diego, California.
- 1994 Phylogenetic relationships within the Ranunculaceae based on *rbcL* and *atpB* gene sequences. American Society of Plant Taxonomists and American Society of Biological Sciences Annual Meetings, Knoxville, Tennessee.
- 1992 Phylogenetic relationships of the Ranunculaceae and related families based on two chloroplast DNA gene sequences. American Society of Plant Taxonomists and American Society of Biological Sciences Annual Meetings, Honolulu, Hawaii.
- Phylogenetic relationships of the Buxaceae and related families based on two chloroplast DNA gene sequences. International Organization of Plant Systematists, V International Symposium, St. Louis, Missouri.
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