

## Dr. Lena Struwe

### Address:

Dept. of Ecology, Evolution, and Natural Resources  
/Dept. of Plant Biology and Pathology  
Rutgers University  
237 Foran Hall, 59 Dudley Road  
New Brunswick, NJ 08901

Phone: (732) 932-9711 x235  
Fax: (732) 932-9441  
E-mail: [struwe@aesop.rutgers.edu](mailto:struwe@aesop.rutgers.edu)  
www: <http://www.rci.rutgers.edu/~struwe/>

### Positions held

- 2010-2013 Associate Editor, *TAXON*  
2007-present Associate Professor, Dept. of Ecology, Evolution, and Natural Resources, (primary), and Dept. of Plant Biology and Pathology (secondary), Rutgers University.  
2006-present Associate Editor, *Systematic Botany*, ASPT (appointment for 4 years).  
2004-present Director, Chrysler Herbarium, Rutgers University, New Brunswick, NJ  
2001-2004 Correspondent, Chrysler Herbarium, Rutgers University, New Brunswick, NJ  
2001-2007 Assistant Professor, Dept. of Ecology, Evolution, and Natural Resources, and Dept. of Plant Biology and Pathology, Rutgers University.  
1998-2001 Research Associate, The Lewis B. and Dorothy Cullman Program for Molecular Systematics Studies, The New York Botanical Garden.  
1995-1998 Laboratory Manager, Harding and Lieberman Laboratories, The New York Botanical Garden.  
1995-1996 Senior Editor, *Brittonia*, The New York Botanical Garden.  
1995 Assistant Editor, *Brittonia*, The New York Botanical Garden.  
1991-1995 Teaching and Computer Assistant, Department of Systematic Botany, Uppsala University.  
1989-1990 Museum Assistant, Regnellian Herbarium, Department of Phanerogamic Botany, Swedish Museum of Natural History.

### Research interests

Evolutionary history, diversity, and biogeography of angiosperms, especially gentians (Gentianaceae) and relatives, and the Neotropical flora; floral anatomy and development; ethnobotany, medicinal plants, conservation of plant biodiversity; tropical biogeography.

### Education

- 1999 Ph.D. (Filosofie doktorsexamen) in Systematic Botany, Stockholm University. Thesis: *Morphological and molecular phylogenetic studies in neotropical Gentianaceae*. Stockholm University, Stockholm. 221 pp. [formally published]  
1991 B.Sc. (Filosofie kandidatexamen) in Biology and Earth Sciences, Stockholm University.

### Selected grants and awards

- 2010 Nomination as Undergraduate Research Mentor of the Year, Aresty Undergraduate Research Program, Rutgers University (one of about 20 nominees, university-wide)  
2010 Teaching award from the Graduate School of New Brunswick, Rutgers University, NJ (April 2010; one award given out by the graduate school each year)  
2009 Rutgers University, multistate HATCH grant (USDA, WERA1015): "Developing the US National Virtual Herbarium" (Oct 2009-Sep 2014).  
2009 Professor of the Year, elected by the Graduate Students in Plant Biology, Rutgers University, 19 June 2009

- 2009 NSF, “IGERT: Solutions for Renewable and Sustainable Fuels in the 21<sup>st</sup> Century”, \$3,198,175 (PI: Eric Lam; I am Co-PI and responsible for Thrust Area “Sustainability and Ecological Impacts”)
- 2008 Medicines for Malaria Venture (MMV), “U.S./South Africa Antimalarial Drug Consortium - New Life for a 60-year old Program”, \$397,833 (PI: Ilya Raskin, I am consultant for 20K/year on medicinal plant identification, sourcing of material, and phylogenetic interpretation), (Nov 2008-Dec 2009, renewed until Dec 2010)
- 2008 Rutgers University, HATCH grant (USDA, NJ17112): “Molecular phylogenetics, biodiversity, and biogeography of plants in the American tropics” (Nov 2008 – Oct 2013).
- 2008 Best presentation in Historical Botany, awarded at the Botany 2009 meeting by the Historical Section of the Botanical Society of America (Aug 2008)
- 2008 Beneficia Foundation, “Digitization of endangered and invasive bioinformatics data for New Jersey plants”, \$30,000, (July 2008-June 2009)
- 2007 Rutgers University, multistate HATCH grant (USDA, NJ17602): “Integrating Access to Information from Herbaria” (Oct 2007–Sep 2009).
- 2007 Abraham Weisblat Award for Across the Board Excellence in Teaching, Research, and Outreach, Rutgers University, School of Environmental and Biological Sciences & New Jersey Agricultural Experiment Station (April 2007).
- 2005 New World Consortium for Life Sciences (OSU-Rutgers-USP), “Assessing Plant Patterns of Genetic Diversity in Brazil using GIS and Molecular Systematics”, with J. Pirani, USP (Jan 2005- June 2005).
- 2003 NIH/FIC, International Cooperative Biodiversity Groups, “Building New Pharmaceutical Capabilities in Central Asia”. (Sep 2003 – April 2008)
- 2003 NSF: DEB, Systematic Biology, “Phylogeny and biogeography of the neotropical tribe Helieae (Gentianaceae)”. (July 2003-July 2005)
- 2003 Rutgers University Research Council grant, “Molecular systematics of the anti-malarial plant *Tachia* (Gentianaceae)”, (Aug 2003 - May 2004)
- 2002 Rutgers University, HATCH grant (USDA): Molecular phylogenetics, biodiversity, and biogeography of plants in the American tropics (Nov 2002 – Oct 2008).
- 1994 Uddenberg-Nordingska Foundation, 1994 (project title: "Flower development and systematics in *Fagraea*, Gentianaceae").

#### **Refereed articles, book chapters, and books**

- Lepis, K. B., P. J. M. Maas, & **L. Struwe**. (in press). A new species of *Sipapoantha* from northern Brazil (Gentianaceae: Helieae). *Blumea*.
- Struwe, L.**, C. Frasier, & R. G. Olmstead. (in press). Gentianales. Pp. xx-xx in K. de Queiroz, P. D. Cantino, and J. Gauthier (eds.), *Phylonyms: A Companion to the PhyloCode*. University of California Press, Berkeley.
- Struwe, L.** (in press). Gelsemiaceae. In: *Families and Genera of Flowering Plants* (K. Kubitzki, ed.), vol. Asteridae-Gentianales (J. W. Kadereit, vol. ed.). Springer Verlag, Berlin.
- Struwe, L.**, J. R. Grant, K. B. Lepis, M. F. Cali6, M. Zarate, & J. Pringle. (in press). Gentianaceae. In: *Catalogue of the Vascular Plants of Bolivia*. Missouri Botanical Garden, St. Louis.
- Struwe, L.** & T. Motley. (in press). Loganiaceae (including Antoniaceae, Geniostomaceae, Spigeliaceae, and Strychnaceae). In: *Families and Genera of Flowering Plants* (K. Kubitzki, ed.), vol. Asteridae-Gentianales (J. W. Kadereit, vol. ed.). Springer Verlag, Berlin.
- Novy, A., P. E. Smouse, J. M. Hartman, **L. Struwe**, J. Honig, C. Miller, M. Alvarez & S. Bonos. 2010. Genetic variation of *Spartina alterniflora* in the New York Metropolitan area and its relevance for marsh restoration. *Wetlands* 30: 603-608.

- Mathews, K. G., N. Dunne, E. York, & **L. Struwe**. 2009. A phylogenetic analysis and taxonomic revision of *Bartonia* (Gentianaceae-Gentianeae), based on molecular and morphological evidence. *Systematic Botany* 34: 162-172.
- Molina, J., & **L. Struwe**. 2009. Utility of secondary structure in phylogenetic reconstructions using nrDNA ITS sequences - an example from Potalieae (Gentianaceae: Asteridae). *Systematic Botany* 34: 414-428.
- Struwe, L.**, V. A. Albert, M. F. Calió, C. Frasier, K. B. Lepis, K. G. Mathews, & J. R. Grant. 2009. Evolutionary patterns in neotropical tribe Helieae (Gentianaceae): evidence from morphology, chloroplast and nuclear DNA sequences. *Taxon* 58: 479-499.
- Struwe, L.**, S. Haag, E. Heiberg, & J. R. Grant. 2009. Andean speciation and vicariance in neotropical *Macroparpea* (Gentianaceae-Helieae). *Annals of Missouri Botanical Garden* 96: 450-469.
- Calío, M. F., J. Pirani, & **L. Struwe**. 2008. Morphology-based phylogeny and revision of *Prepusa* and *Senaea* (Gentianaceae: Helieae) - rare endemics from eastern Brazil. *Kew Bulletin* 63: 169-191.
- Frasier, C., V. A. Albert, & **L. Struwe**. 2008. Amazonian lowland, white sand areas as ancestral regions for South American biodiversity: biogeographic and phylogenetic patterns in *Potalia* (Gentianaceae). *Organisms, Diversity & Evolution* 8: 44-57.
- Maas, P. J. M., **L. Struwe**, & B. von Hagen. 2008. Gentianaceae. Pages 403-408. In: O. Hokche, P. Berry, & O. Huber (eds.), *Nuevo Catálogo de la Flora Vascular de Venezuela*. Caracas, Venezuela: Fundación Instituto Botánico de Venezuela Dr. Tobias Lasser.
- Molina, J. & **L. Struwe**. 2008. Revision of ring-gentians (*Symbolanthus*, Gentianaceae) from Bolivia, Ecuador and Peru, with a first assessment of conservation status. *Systematics & Biodiversity* 6: 477-501.
- Polle, J. E. W., **L. Struwe**, & E. Jin. 2008. Identification and characterization of a new strain of the unicellular green alga *Dunaliella salina* (Teod.) from Korea. *J. Microbiol. Biotechnol.* 18(5): 821-827.
- Struwe, L.**, S. Nilsson, & V. A. Albert. 2008. *Roraimaea* (Gentianaceae: Helieae) - a new gentian genus from white sands and tepuis of Brazil and Venezuela. *Harvard Papers in Botany*.
- Struwe, L.** 2007. Gentianaceae. In: R. Duno, G. Aymard, & O. Huber (eds.). *Catálogo anotado e ilustrado de la flora vascular de los llanos de Venezuela*. Caracas, Venezuela : FUDENA : Fundación Empresas Polar : FIBV.
- Grant, J. R. & **L. Struwe**. 2006. *Yanomamua araca* (Gentianaceae: Helieae), a new genus and species from outliers of the Guayana Shield on Serra Aracá in Amazonian Brazil. *Harvard Papers in Botany* 11(1): 33-41.
- Struwe, L.**, M. P. Kinkade, & P. J. M. Maas. 2005. Two new Brazilian species of *Tachia* (Gentianaceae: Helieae). *Blumea* 50: 457-462.
- Gould, K. R. & **L. Struwe**. 2004. Phylogeny and evolution of *Symbolanthus* and *Wurdackanthus* (Gentianaceae-Helieae) in the Guayana Highlands and Andes, based on ribosomal 5S-NTS sequences. *Annals of Missouri Botanical Garden* 91: 438-446.
- Mansion, G. & **L. Struwe**. 2004. Generic delimitation and phylogenetic relationships within the subtribe Chironiinae (Chironieae: Gentianaceae) with special reference to *Centaurium*: evidence from nrDNA and cpDNA sequences. *Molecular Phylogenetics and Evolution* 32: 951-977.
- Molina, J. & **L. Struwe**. 2004. *Neuburgia novocaledonica*, comb. nov. and the first record of domatia in the family Loganiaceae. *Australian Systematic Botany* 17: 399-406.
- Struwe, L.** 2004. Columelliaceae, Desfontainiaceae, Loganiaceae, Plocospermataceae. Pages 108-109, 126-127, 219-221, 299-300. In: *Flowering Plant Families of the American Tropics* (A. Henderson, S. A. Mori, S. V. Heald, N. P. Smith, and D. W. Stevenson, eds.), Princeton University Press, Princeton, NJ.

- Struwe, L.** & V. A. Albert. 2004. Monograph of neotropical *Potalia* (Gentianaceae: Potalieae). *Systematic Botany* 29 (3): 670-701.
- Struwe, L.** & V. A. Albert. 2004. Gelsemiaceae, Gentianaceae. Pages 164-166, 166-168. In: *Flowering Plant Families of the American Tropics* (A. Henderson, S. A. Mori, S. V. Heald, N. P. Smith, and D. W. Stevenson, eds.), Princeton University Press, Princeton, NJ.
- Struwe, L.** & S. R. Jensen. 2004. Plocospermataceae. Pages: 330-332. In: *Families and Genera of Flowering Plants* (K. Kubitzki, ed.), vol. Asteridae-Lamiales (J. W. Kadereit, vol. ed.). Springer Verlag, Berlin.
- Struwe, L.** & K. Gould. 2004. Redefinition of *Symbolanthus* to include *Wurdackanthus* (Gentianaceae - Helieae). *Novon* 14: 354-359.
- Bischoff, J. F., R. F. Sullivan, N. L. Hywel-Jones, **L. Struwe**, & J. F. White, Jr. 2003. Resurrection of *Blistum tomentosum* and its exclusion from *Polycephalomyces* (Hyphomycetes, Deuteromycota) based on 28S rDNA sequence data. *Mycotaxon* 86: 433-444.
- Grant, J. R. & **L. Struwe**. 2003. De Macrocarpaeae Grisebach (ex Gentianaceis) speciebus novis III: Six new species of moon-gentians (*Macrocarpaea*, Gentianaceae: Helieae) from Parque Nacional Podocarpus, Ecuador. *Harvard Papers in Botany* 8 (1): 61-81.
- Struwe, L.** 2003. Revision of Bolivian *Symbolanthus* (Gentianaceae – Helieae). *Harvard Papers in Botany* 8 (1): 19-24.
- Struwe, L.** 2003. Two new winged species of *Symbolanthus* (Gentianaceae: Helieae) from Colombia. *Novon* 13: 133-140.
- Struwe, L.** & V. A. Albert, eds. 2002. *Gentianaceae – Systematics and Natural History*. Cambridge University Press, Cambridge. 652 pp. Co-authored chapters:  
 Albert, V. A. and **L. Struwe**. Gentianaceae in context. Pp. 1-20.  
**Struwe, L.**, J. Kadereit, J. Klackenberg, S. Nilsson, M. Thiv, K. B. von Hagen, and V. A. Albert. Systematics, character evolution, and biogeography of Gentianaceae, including a new tribal and subtribal classification. Pp. 21-309.
- Struwe, L.** & R. E. Weaver, Jr. 2001. *Lisianthus perkinsiae*, a new name for *Lisianthus acuminatus* Perkins (Gentianaceae: Potalieae). *Taxon* 50: 1161-1162.
- Grant, J. R. & **L. Struwe**. 2001. *Macrocarpaeae* Grisebach (Gentianaceae) Species Novae seu notabiles Neotropicae I: An introduction to the genus *Macrocarpaea* and three new species from Colombia, Ecuador, and Guyana. *Harvard Papers in Botany* 5: 489-498.
- Thiv, M., **L. Struwe**, & J. W. Kadereit. 1999 [2000]. The phylogenetic relationships and evolution of the Canarian laurel forest endemic *Ixanthus viscosus* (Alt.) Griseb. (Gentianaceae): evidence from *matK* and ITS sequence variation, and floral morphology and anatomy. *Plant Systematics & Evolution* 218: 299-317.
- Struwe, L.** & V. A. Albert. 1999. Nomenclatural issues in Helieae (Gentianaceae): a response to Zijlstra et al. *Harvard Papers in Botany* 4: 293.
- Struwe, L.**, P. J. M. Maas, O. Pihlar, & V. A. Albert. 1999. Gentianaceae. Pages 474-542. In: *Flora of the Venezuelan Guayana*, vol. 5, P. E. Berry, K. Yatskievych, & B. K. Holst (eds.). Missouri Botanical Garden, St. Louis.
- Thiv, M., **L. Struwe**, V. A. Albert, & J. W. Kadereit. 1999. The phylogenetic relationships of *Saccifolium bandeirae* Maguire & Pires (Gentianaceae) reconsidered. *Harvard Papers in Botany* 4: 519-526.
- Struwe, L.** & V. A. Albert. 1998. *Lisianthus* (Gentianaceae), its probable homonym *Lisyanthus*, and the priority of *Helia* over *Irlbachia* as its substitute. *Harvard Papers in Botany* 3: 63-71.
- Struwe, L.** & V. A. Albert. 1998. Six new species of Gentianaceae from the Guayana Shield. *Harvard Papers in Botany* 3: 181-197.
- Struwe, L.**, M. Thiv, J. Kadereit, T. Motley, A. S-R. Pepper, J. Rova, K. Potgieter, P. White, and V. A. Albert. 1998. *Saccifolium* (Saccifoliaceae), an endemic of Sierra de la Neblina on the

- Brazilian-Venezuelan frontier, is related to a temperate-alpine lineage of Gentianaceae. *Harvard Papers in Botany* 3: 199-214.
- Albert, V. A. & **L. Struwe**. 1997. Phylogeny and classification of *Voyria* (saprophytic Gentianaceae). *Brittonia* 49: 466-479.
- Struwe, L.** & V. A. Albert. 1997. Floristics, cladistics, and classification: three case studies in Gentianales. In: *Plant Diversity in Malesia III*, J. Dransfield, M. J. E. Coode, & D. A. Simpson (eds.), pp. 321-352. Royal Botanic Gardens, Kew.
- Struwe, L.**, P. J. M. Maas, & V. A. Albert. 1997. *Aripuana cullmaniorum*, a new genus and species of Gentianaceae from white sands of southeastern Amazonas, Brazil. *Harvard Papers in Botany* 2: 235-253.
- Farris, J. S., M. Källersjö, V. A. Albert, M. Allard, A. Anderberg, B. Bowditch, C. Bult, J. M. Carpenter, T. M. Crowe, J. De Laet, K. Fitzhugh, D. Frost, P. Goloboff, C. J. Humphries, U. Jondelius, D. Judd, P. O. Karis, D. Lipscomb, M. Luckow, D. Mindell, J. Muona, K. Nixon, W. Presch, O. Seberg, M. E. Siddall, **L. Struwe**, A. Tehler, J. Wenzel, Q. Wheeler, & W. Wheeler. 1996. Explanation. *Cladistics* 11: 211-218.
- Bremer, B., R. G. Olmstead, **L. Struwe**, & J. A. Sweere. 1994. *rbcL* sequences support exclusion of *Retzia*, *Desfontainia*, and *Nicodemia* from the Gentianales. *Plant Systematics and Evolution* 190: 213-230.
- Struwe, L.**, V. A. Albert, & B. Bremer. 1994 [1995]. Cladistics and family level classification of the Gentianales. *Cladistics* 10: 175-206.
- Bremer, B. & **L. Struwe**. 1992. Phylogeny of the Rubiaceae and the Loganiaceae: congruence or conflict between morphological and molecular data? *American Journal of Botany* 79 (10): 1171-1184.

#### **Non-refereed scientific publications**

- Dushenkov, V., J. Akimaliev, K. C. Buriev, M. A. Lila, Y. Nuraliev, G. Pichkhadz, **L. Struwe**, J. F. White, G. J. Zylstra, & I. Raskin. 2008. The role of the ICBG program in building new pharmaceutical capabilities in Central Asia. Proceedings of the 1st Congress of Phytotherapists of Tajikistan. Dushanbe, Tajikistan.
- Novy, A., J. M. Hartman, **L. Struwe**, P. Smouse, J. Honig, C. Miller, & S. Bonos. 2008. Patterns of genetic variation of *Spartina alterniflora* in marshes of the New York metropolitan area and significance for marsh restoration. Report to the U.S. Army Corps of Engineers.
- Struwe, L.**, S. Dushenkov, S. Eisenman, M. Tadych, & I. Raskin. 2007. International education in biodiversity and biodocumentation - collaborative approaches. Pp. 272-280 in *Ecological Characteristics of Biodiversity*. Khorog, Tajikistan: Academy of Sciences of the Republic of Tajikistan. The Third Republican Scientific Conference "Ecological characteristic of biological diversity": International Pamir Biodiversity Conference, Khorog City, Tajikistan, July 25-26 2007
- Peters, W., M. P. Kinkade, A. M. Pohlit, & **L. Struwe**. 2005. *Tachia* field guide. Rutgers University, Cook College, New Brunswick, NJ, & Instituto Nacional de Pesquisas da Amazônica (INPA), Manaus, Brazil. [available online at Gentian Research Network]
- Peters, W., M. F. Calió, M. P. Kinkade, A. M. Pohlit, & **L. Struwe**. 2005. Guia de Campo para *Tachia*. Rutgers University, Cook College, New Brunswick, NJ, & Instituto Nacional de Pesquisas da Amazônica (INPA), Manaus, Brazil. [in Portuguese; available online at Gentian Research Network]
- Peters, W., R. Cortés-B., M. P. Kinkade, A. M. Pohlit, & **L. Struwe**. 2005. Guía de Campo de *Tachia*. Rutgers University, Cook College, New Brunswick, NJ, & Instituto Nacional de Pesquisas da Amazônica (INPA), Manaus, Brazil. [In Spanish; available online at Gentian Research Network]
- Struwe, L.** 2001. Gentianales. In: *Encyclopedia of Life Science*, MacMillan Publishers. ([www.els.net](http://www.els.net)) [on-line encyclopedia]

**Struwe, L.** 1999. *Morphological and molecular phylogenetic studies in neotropical Gentianaceae*. Stockholm University, Stockholm. 221 pp. [Doctoral Dissertation, officially published]

**Abstracts during the last 10 years**

- Ciotir, C., J. Freeland, K. Mathews, **L. Struwe**, & B. Korol. 2010. Phylogeography of *Bartonia* species in North America and conservation implications of branched *Bartonia*, a possible new species for Ontario. 2010 SPNHC–CBA-ABC Joint Conference, Ottawa, Canada, May-June 2010.
- Graziose, R., C. Lategan, P. Smith, **L. Struwe**, & I. Raskin. 2010. Antimalarial activity of plants used by the Confederate Army during the American Civil War. Botany 2010 Meeting, Providence, RI, Aug 2010.
- Struwe, L.** & S. Eisenman. 2010. On the importance of being vouchered, identified, classified, and properly documented in botanical bioprospecting, 1st Annual Conference of the American Council for Medicinally Active Plants, Rutgers University, July 2010.
- Struwe, L.**, E. Heiberg, S. Haag, R. G. Lathrop, & P. E. Smouse. 2010. Tracking evolutionary clades across the space-time-environmental continuum. Botany 2010 Meeting, Providence, RI, Aug 2010.
- Struwe, L.**, K. G. Mathews, M. Molina, & A. Popovkin. 2010. Polite Spigelias: Genuflexing infructescences in a new species of Loganiaceae. Botany 2010 Meeting, Providence, RI, Aug 2010.
- Brody, S., R. Graziose, I. Raskin, **L. Struwe**, & C. Lategan. 2010. Malaria Curatives from Northeast United States. Botany 2010 Meeting, Providence, RI, Aug 2010.
- Tessler, M., & **L. Struwe**. 2010. *Hymenodon* (Rhizogoniaceae): exploring evolution and disjunction in a tropical moss genus. Botany 2010 Meeting, Providence, RI, Aug 2010.
- Novy, A., P. E. Smouse, J. M. Hartman, **L. Struwe**, J. Honig, C. Miller, M. Alvarez, & S. Bonos. 2010. An evolutionary ecology approach to marsh restoration with *Spartina alterniflora*. Evolution Meeting 2010, Portland, OR, July 2010.
- Sharma, A., A. Novy, S. Bonos & **L. Struwe**. 2010. New Jersey's Swamp Pink: Genetic diversity and what it means for conservation. 24th National Conference on Undergraduate Research (NCUR), Missoula, MT, 15-17 April, 2010 [poster by Aresty undergraduate student, selected presentation out of 2600 submitted abstracts]
- Eisenman, S., A. Poulev, **L. Struwe**, & I. Raskin. 2009. Phytochemical variation in North American populations of wild tarragon (*Artemisia dracunculus*). Botany 2009 meeting, Snowbird, UT, July 2009.
- Struwe, L.** & S. Eisenman. 2008. Good Botanical Practices in Pharmaceutical Studies. NRF(KISC)/GIBEX - Africa Workshop on developing novel strategies for natural product-based drug discovery for tropical diseases, 3-6 Nov 2008, Cape Town, South Africa.
- Dahle, G., J. Grabosky, & **L. Struwe**. 2008. Anatomical study to determine vessel to fiber ratio along Norway maple (*Acer platanoides*) branches. HortScience 43(3):594
- Kelsey, S., S. Eisenman, & **L. Struwe**. 2008. The establishment and persistence of plants introduced to New Jersey by solid ballast on ships. Botany 2008 meeting, Vancouver, 26-30 July 2008.
- Raviram, R., S. Eisenman, A. Novy, S. Bonos, & **L. Struwe**. 2008. Assessing the genetic diversity in an ex situ germplasm collection of dawn redwoods (*Metasequoia glyptostroboides*). Botany 2008 meeting, Vancouver, 26-30 July 2008.
- Struwe, L.**, E. Heiberg, S. Haag, & J. Grant. 2008. Comparative ecological analysis of sympatric and allopatric species and clades in the Andes. Botany 2008 meeting, Vancouver, 26-30 July 2008.
- Dahle, G.A., J. Grabosky, & **L. Struwe**. 2008. Anatomical study to determine vessel to fiber ratio along Norway maple (*Acer platanoides*) branches. HortScience.

- Raviram, R., A. Novy, S. Eisenman, **L. Struwe**, S. Bonos, & J. Grabosky. 2008. Assessing the genetic diversity of an ex situ germplasm collection of dawn redwood (*Metasequoia glyptostroboides*) trees. 2008 Annual Meeting of Northeast Region of American Society for Horticultural Science, Jan 3-5, 2008, New Brunswick, NJ.
- Eisenman, S. W., A. Poulev, **L. Struwe**, & I. Raskin. 2008. Genetic and phytochemical variation in the medicinal plant wild tarragon *Artemisia dracunculus* L.). 2008 Annual Meeting of Northeast Region of American Society for Horticultural Science, Jan 3-5, 2008, New Brunswick, NJ.
- Novy, A., J. M. Hartman, P. Smouse, **L. Struwe**, C. Miller, W. Skaradek, & S. Bonos. 2008. Can population genetics studies of *Spartina alterniflora* (Smooth Cordgrass) affect marsh restoration horticultural practices? 2008 Annual Meeting of Northeast Region of American Society for Horticultural Science, Jan 3-5, 2008, New Brunswick, NJ.
- Struwe, L.**, R. Lathrop, & P. Smouse. 2007. Biogeography and environmental response through time using spatial evolutionary ecological vicariance analysis (SEEVA) in neotropical gentians. Botany 2007 meeting, Chicago, 7-11 July 2007.
- Frasier, C. & **L. Struwe**. A glimpse into the family tree of Loganiaceae, with a close look at *Strychnos*, using ITS sequences and secondary structure. 3rd International Rubiaceae conference, Leuven, 18-21 Sept 2006.
- Struwe, L.**, R. G. Lathrop, & P. E. Smouse. 2006. Spatial Evolutionary and Ecological Vicariance Analysis of Biodiversity – a new interdisciplinary approach with an example from neotropical Gentianaceae. 3rd International Rubiaceae conference, Leuven, 18-21 Sept 2006.
- Eisenman, S. H. E. Clennon, K. Dulatas, & **L. Struwe**. 2006. Ballast dumps from the late 1800's and the introduction of non-native species to the eastern United States. Botany 2006 conference, Chico, CA, 28 July-3 Aug, 2006.
- Frasier, C. & **L. Struwe**. 2006. A glimpse into the family tree of *Strychnos* (Loganiaceae) using ITS sequences. Botany 2006 conference, Chico, CA, 28 July-3 Aug, 2006.
- Lepis, K. B., D. Kulakowski, & **L. Struwe**. 2006. A new taxonomic classification for *Chelonanthus* (Gentianaceae) as supported by ribosomal nuclear, chloroplast and morphological data. Botany 2006 conference, Chico, CA, 28 July-3 Aug, 2006.
- Molina, J., E. Green, & **L. Struwe**. 2006. Phenology and pollination of the ancestral grape relative *Leea* (Leeaceae/Vitaceae). Botany 2006 conference, Chico, CA, 28 July-3 Aug, 2006.
- Struwe, L.**, R. G. Lathrop, & P. E. Smouse. 2006. Spatial Evolutionary and Ecological Vicariance Analysis of Biodiversity – a new interdisciplinary approach. Botany 2006 conference, Chico, CA, 28 July-3 Aug, 2006.
- Mylecraine, K. A., G. L. Zimmermann, J. E. Kuser, **L. Struwe**, & P. E. Smouse. 2006. Developing Management and Restoration Strategies for Atlantic White-Cedar Based on Regional Patterns of Genetic Variation. Symposium: The Ecology and Management of Atlantic White-Cedar, Atlantic City, NJ, 6-8 June, 2006.
- Lepis, K. B., D. Kulakowski, & **L. Struwe**. 2006. A new taxonomic classification for *Chelonanthus* (Gentianaceae) as supported by ribosomal nuclear, chloroplast and morphological data. New York Area Plant Molecular Biology Meeting, The New York Botanical Garden, 16 May, 2006.
- Kulakowski, D., K. B. Lepis, & **L. Struwe**. 2006. Intraspecific variation and evaluation of nuclear versus chloroplast sequence data in a neotropical species complex (*Chelonanthus alatus*: Gentianaceae). New York Area Plant Molecular Biology Meeting, The New York Botanical Garden, 16 May, 2006. [poster]
- Calió, F. A., J. R. Pirani, W. Peters, & **L. Struwe**. 2005. *Prepusa* and *Senaee* (Helieae-Gentianaceae): endangered and endemic genera from Brazil with six-merous flowers. IBC 2005, Vienna, Austria, 17-23 July 2005.

- Lepis, K. B., A. Gorczyca, & **L. Struwe**. 2005. Common weeds to rare habitat specialists: Speciation and distribution patterns of *Chelonanthus* within South America. IBC 2005, Vienna, Austria, 17-23 July 2005.
- Struwe, L.** 2005. Gentians were not always blue - the why, when, and where of gentian evolution. IBC 2005, Vienna, Austria, 17-23 July 2005.
- Gorczyca, A., K. B. Lepis, & **L. Struwe**. 2005. Determining the boundaries within the species complex *Chelonanthus viridiflorus*. Northeastern Ecology and Evolution Conference (NEEC), Penn State University, State College, PA, 18-20 March 2005.
- Frasier, C. & **L. Struwe**. 2005. A phylogenetic inquiry into the angiosperm genus *Strychnos* (Loganiaceae) using ITS sequences Northeastern Ecology and Evolution Conference (NEEC), Penn State University, State College, PA, 18-20 March 2005.
- Kinkade, M., A. M. Pohlit & **L. Struwe**. 2005. Revision of *Tachia* (Gentianaceae): speciation patterns in South America using phylogenetic data from morphology and DNA Northeastern Ecology and Evolution Conference (NEEC), Penn State University, State College, PA, 18-20 March 2005.
- Miarmi, P, S.Haag, W. Peters, M. Kinkade, R. Lathrop, & **L. Struwe**. 2005. Evaluation of environmental-ecological data as a factor in distributional patterns in a Latin American plant genus using GIS. Northeastern Ecology and Evolution Conference (NEEC), Penn State University, State College, PA, 18-20 March 2005.
- Lepis, K., A. Gorczyca, & **L. Struwe**. 2005. *Chelonanthus alatus* (Gentianaceae), widely distributed weeds to narrow endemics: where do you draw the species lines? Northeastern Ecology and Evolution Conference (NEEC), Penn State University, State College, PA, 18-20 March 2005.
- Molina, J. & **L. Struwe**. 2005. The phylogeny and floral ecology of *Leeaceae* Northeastern Ecology and Evolution Conference (NEEC), Penn State University, State College, PA, 18-20 March 2005.
- Peters, W., M. Kinkade, A. M. Pohlit, & **L. Struwe**. 2005. A trilingual field guide to Latin American *Tachia* (Gentianaceae) to aid in field identification of an anti-malarial plant genus. Northeastern Ecology and Evolution Conference (NEEC), Penn State University, State College, PA, 18-20 March 2005.
- Kinkade, M., W. Peters, A. M. Pohlit, & **L. Struwe**. 2005. Systematics of *Tachia* (Gentianaceae): speciation patterns in South America using GIS and phylogenetic data from morphology and DNA. New York Area Plant Molecular Biology Meeting, Brooklyn College, 15 Jan 2005.
- Kinkade, M., W. Peters, A. M. Pohlit, and **L. Struwe**. 2004. Systematics of *Tachia* (Gentianaceae): speciation patterns in South America using GIS and phylogenetic data from morphology and DNA. 12th International Symposium on Undergraduate Research at the University of Sao Paulo, Brazil. 20 Nov, 2004.
- Farrell, B. & **L. Struwe**. 2004. Taxonomic status and phylogeny of northern monkshood (*Aconitum noveboracense*, Ranunculaceae): an endangered species in North America. Botany 2004 conference, Snowbird, Utah, 31 July-5 Aug, 2004.
- Frasier, C. & **L. Struwe**. 2004. *Strychnos* exposed! The evolutionary past of a pantropical Loganiaceae genus using ITS. Botany 2004 conference, Snowbird, Utah, 31 July-5 Aug, 2004.
- Lepis, K. B., J. Jaworski, & **L. Struwe**. 2004. Teasing apart the hidden species within the widely distributed herb *Chelonanthus alatus* (Gentianaceae). Botany 2004 conference, Snowbird, Utah, 31 July-5 Aug, 2004.
- Mylecraine, K. A., P. E. Smouse, J. E. Kuser, G. L. Zimmermann, & **L. Struwe**. 2004. Geographic variation in Atlantic white-cedar, *Chamaecyparis thyoides* (Cupressaceae). Botany 2004 conference, Snowbird, Utah, 31 July-5 Aug, 2004.

- Struwe, L.** & Hatfield, C. A. 2004. A new method using parsimony to study vegetation patterns and biocomplexity in a spatial context. Botany 2004 conference, Snowbird, Utah, 31 July-5 Aug 2004.
- Struwe, L.,** M. Kinkade, & A. M. Pohlit. 2004. Systematics of *Tachia* (Gentianaceae): speciation patterns in the Amazon basin using GIS and phylogenetic data from morphology and DNA. Botany 2004 conference, Snowbird, Utah, 31 July-5 Aug 2004.
- Struwe, L.,** K. Lepis, M. F. Calió, W. Peters, M. Kinkade, A. M. Pohlit, & J. Pirani. 2004. Exploring evolutionary patterns in Brazilian plant biodiversity using GIS and molecular systematics. North-South Americas Molecular Biology Conference. 8-10 Sep 2004, Ohio State University, Columbus, OH.
- Hatfield, C. A. & **L. Struwe.** 2004. Linking spatial patterns with mechanisms for riparian vegetation distributions in stream networks. US-IALE 2004 meeting, Las Vegas, NV, 30 Mar-2 Apr 2004.
- Bischoff, J. F., **L. Struwe,** & J. F. White, Jr. 2003. Evaluation of anamorphic states in Clavicipitaceae (Hypocreales) and their use in determining monophyly within the family. 2003 Annual Meeting of the Mycological Society of America, Monterey, CA, 27-31 July 2003.
- Bischoff, J. F., J. F. White, & **L. Struwe.** 2003. Molecular support for the monophyly of the fungal plant pathogens *Ustilaginoidea* and *Munkia* and corroboration of their placement in the Clavicipitaceae. Northeastern Ecology and Evolution Conference (NEEC), Rutgers University, New Brunswick, NJ, 11-13 Apr 2003.
- Bischoff, J. F., **L. Struwe,** & J. F. White, Jr. 2003. Molecular support for the monophyly of the fungal plant pathogens *Ustilaginoidea* and *Munkia* and corroboration of their placement in the Clavicipitaceae. NY Area Plant Molecular Biology Meeting, New York Botanical Garden, NY, 18 Jan 2003.
- Frasier, C. L., V. A. Albert, & **L. Struwe.** 2003. Comparison of biogeographic and phylogenetic patterns in a medicinally important gentian genus in Latin America (*Potalia*; Gentianaceae-Potalieae). Brazilian Botanic Congress, Belém, Brazil, 13-17 July 2003.
- Frasier, C. L., V. A. Albert, & **L. Struwe.** 2003. Comparison of biogeographic and phylogenetic patterns in a medicinally important gentian genus in Latin America (*Potalia*; Gentianaceae-Potalieae). NY Area Plant Molecular Biology Meeting, New York Botanical Garden, NY, 18 Jan 2003.
- Frasier, C. & **L. Struwe.** 2003. Systematics of *Strychnos* (Loganiaceae) using morphology and internal transcribed spacer (ITS) sequences. Northeastern Ecology and Evolution Conference (NEEC), Rutgers University, New Brunswick, NJ, 11-13 Apr 2003.
- Grant, J. R. & **L. Struwe.** 2003. The genus *Macrocarpaea* (Gentianaceae: Helieae) in Brazil. Brazilian Botanic Congress, Belém, Brazil, 13-17 July 2003.
- Hatfield, C. A. & **L. Struwe.** 2003. Parsimony analysis of vegetation data helps reveal spatial relationships in the riparian network. US-IALE 2003 meeting, Apr 2003.
- Lepis, K. B. & **L. Struwe.** 2003. Biodiversity and evolution of *Chelonanthus* (Gentianaceae): the impact of phylogeny on conservation. Brazilian Botanic Congress, Belém, Brazil, 13-17 July 2003.
- Mylecraine, K. A., J. E. Kuser, G. L. Zimmermann, P. E. Smouse, & **L. Struwe.** 2003. Varietal status of *Chamaecyparis thyooides* var. *henryae* supported by allozyme and morphological data. Botany 2003 conference, Mobile, AL, Aug 2003.
- Mylecraine, K. & **L. Struwe.** 2003. *Chamaecyparis* phylogeny inferred from molecular and morphological data. Northeastern Ecology and Evolution Conference (NEEC), Rutgers University, New Brunswick, NJ, 11-13 Apr 2003.
- Mylecraine, K. A. & **L. Struwe.** 2003. *Chamaecyparis* phylogeny inferred from molecular and morphological data. NY Area Plant Molecular Biology Meeting, New York Botanical Garden, NY, 18 Jan 2003.

- Struwe, L., J. R. Grant, & K. R. Gould.** 2003. Coronas and curved stamens: shape, size, and color in the floral evolution of tribe Helieae (Gentianaceae; Asteridae). Brazilian Botanic Congress, Belém, Brazil, 13-17 Jul 2003.
- Frasier, C. L., V. A. Albert, & **L. Struwe.** 2002. Comparison of biogeographic and phylogenetic patterns in a medicinally important gentian genus in Latin America (*Potalia*; Gentianaceae-Potalieae). Botany 2002 conference, Madison, WI, Aug 2002.
- Gould, K. R. & **L. Struwe.** 2002. Phylogeny, biogeography and floral evolution of *Symbolanthus* and *Wurdackanthus* (Gentianaceae-Helieae) in the Guayana Highlands and Andes, based on ribosomal 5S-NTS sequences and morphology. Botany 2002 conference, Madison, WI, Aug 2002.
- Struwe, L.** 2002. Overview of the new classification of the gentian family (Gentianaceae: Asteridae). Botany 2002 conference, Madison, WI, Aug 2002.
- Struwe, L.** 2002. Evolutionary diversity of floral merosity in Gentianaceae (Gentianales: Asteridae). Flowers meeting, Zürich, Switzerland, 5-7 July 2002.
- Struwe, L., J. R. Grant, & K. R. Gould.** 2002. Coronas and curved stamens: shape, size, and color in the floral evolution of tribe Helieae (Gentianaceae; Asteridae). Botany 2002 conference, Madison, WI, Aug 2002.
- Struwe, L., J. R. Grant, & K. R. Gould.** 2001. Coronas and curved stamens: shape, size, and color in the floral evolution of tribe Helieae (Gentianaceae; Asteridae). Deep Morphology, IAPT meeting, Vienna, Austria, Oct 2001.

**Selected Memberships, professional appointments, etc.**

- |              |  |
|--------------|--|
| 2010-present | Interim chair, Curriculum committee, Graduate Program in Ecology and Evolution, Rutgers University                       |
| 2010-present | Interim Member, Biological Sciences Area Committee, Graduate School of New Brunswick, Rutgers University                 |
| 2009-present | Admissions committee chair, IGERT program in Renewable and Sustainable Fuels, Rutgers University                         |
| 2009-present | Member, Executive Committee, IGERT program in Renewable and Sustainable Fuels, Rutgers University                        |
| 2009-present | Coordinator, Sustainability and Ecological Impacts, IGERT program in Renewable and Sustainable Fuels, Rutgers University |
| 2009-present | Member, Executive Committee, Dept. of Ecology, Evolution, and Natural Resources, Rutgers University.                     |
| 2009-2010    | Administrator, GIBEX-Africa e-mailing list   |
| 2009         | Member, PEC faculty evaluation committee, Dept. of Ecology, Evolution, and Natural Resources, Rutgers University.        |
| 2008-present | Administrator, SEEVA e-mailing list  |
| 2008-present | Administrator, Evolution-RU e-mailing list   |
| 2008-present | Academic Integrity Facilitator, SEBS, Rutgers University   |
| 2008-present | Member, Hutcheson Memorial Forest Executive Committee, Rutgers University.   |
| 2008-2010    | Honorary Research Associate, The New York Botanical Garden.  |
| 2008-present | Delegate for Rutgers University in Organization for Tropical Studies (OTS)   |
| 2007-2009    | Treasurer, Board of Directors, International Bioexploration Society (IBEX).  |
| 2007-2008    | Chair, Search Committee Evolutionary Biologist, Dept. of Ecology, Evolution, and Natural Resources, Rutgers University.  |
| 2007         | Chair, Progress Assessment Committee, Graduate Program in Ecology & Evolution, Rutgers University.                       |
| 2007-present | Member, Advisory Board, Dept of Plant Biology and Pathology, SEBS, Rutgers University.                                   |

- 2007-present Member, The Systematic and Evolutionary Biogeographical Association (SEBA).
- 2006-present Advisory Board on Women in Science, Engineering and Math, Rutgers University.
- 2006-present Honorary Member, Cercle Européen d'Etude des Gentianacées, Lausanne.
- 2005-present Member, Study Abroad Committee, FAS, Rutgers University.
- 2005-present Webmaster and Coordinator, Evolution at Rutgers: <http://evolru.rutgers.edu>
- 2004-2006 Member, Admissions Committee, Plant Biology Graduate Program.
- 2004-present Director, Chrysler Herbarium, Rutgers University.
- 2003-2009 Associate Program Leader for Biodiversity, Bioinformatics and Training Associate Program, ICBG-Central Asia Project, Rutgers University.
- 2003-present Member, Curriculum Committee, Plant Biology Graduate Program.
- 2003-present Coordinator, Population and Organismal Track, Plant Biology Graduate Program.
- 2003-2007 Honorary Curator, The New York Botanical Garden.
- 2002-present Member, Faculty of the Graduate School-New Brunswick, Rutgers University, Graduate Program in Ecology and Evolution & Graduate Program in Plant Biology.
- 2002-present Elected At-large Member, Executive Council of Ecology & Evolution Graduate Program, Rutgers University.
- 2002-2005 Member, Curriculum Committee, Natural Resources undergraduate program.
- 2002-present Correspondent, Chrysler Herbarium, Rutgers University.
- 2002-2003 Member, Search Committee for Plant Genomics position, Rutgers University.
- 2001-2004 Founder and webmaster, Gentian Research Network: [gentian.rutgers.edu](http://gentian.rutgers.edu)
- 2001-present Member, American Society of Plant Taxonomists (ASPT)
- 2001-present Member, International Association for Plant Taxonomists (IAPT)
- 2001-present Member, Botanical Society of America (BSA)
- 1999-present Adjunct Research Scientist, Brooklyn Botanic Garden
- 1999-present Adjunct Researcher, Stockholm University, 1999-present
- 1997-2008 Elected Fellow, Willi Hennig Society
- 1989-1991 Elected member, National Board, Secretary of Field Biology (1989), and Secretary of Publications (1990-1991), Fältbiologerna [youth NGO, field biology and environment], Sweden

#### **Organizer of events and similar service**

- 2009 Organizer, "Observing Evolution: faculty social get togethers" as part of project development between Rutgers University and Liberty Science Center.
- 2009 Organizer, Seminar as part of Darwin Bicentennial and co-organized by DEENR and the Art History Department at Rutgers, "*Cultural Selection: On the Origins of Visual Species*", talk by Dr. Larry Silver, Zimmerli Art Museum, New Brunswick, NJ, Feb 12, 2009.
- 2007 Organizer, Colloquium "*Integration of spatial and ecological data in evolutionary studies*", Botany 2007 conference, Chicago, July 7-11 2007.
- 2007 Organizer, Art and Science exhibit '*Botanical Art of the Pinelands*', Rutgers University, April 6-23, 2007
- 2006 Organizer, *Biodiversity BioBlitz* at Phillips Preserve, Old Bridge, NJ (October 2006, April 2007, 10 June 2007)
- 2006 Organizer, Workshop '*Evolution at Rutgers*', Feb 6, 2006
- 2005 Organizer & Keynote Speaker, International Botanical Conference, IBC 2005, Vienna, 23-27 July 2005, Gentianaceae symposium

2005 Organizer, “*David Fairbrothers’ Honorary Mini-Symposium*”, Rutgers University, 4 June 2005.

### **Referee service**

**Journals:** American Journal of Botany, Annales Botanici Fennici, Annals of Botany, Annals of Missouri Botanical Garden, Australian Systematic Botany, Blumea, Botanical Journal of the Linnean Society, Botanische Jahrbücher, Bulletin of the Torrey Botanical Club, Brittonia, Cladistics, Edinburgh Journal of Botany, Evolution, Flora Neotropica, International Journal for Plant Science, Journal of Ethnobiology, New Zealand Journal of Botany, Madroño, Molecular Phylogenetics and Evolution, Organisms, Diversity and Evolution, Plant Systematics and Evolution, Springer Verlag, Systematic Biology, Systematic Botany, Taxon.

**Publishers:** Oxford University Press.

**Grants and foundations:** NSF reviewer, NSF review panels, Swiss National Science Foundation, South Africa National Science Foundation.

**Evaluations of candidates for scientific positions:** Finnish Museum of Natural History.

### **Field experience**

Field collecting in Brazil, Ecuador, Hawaii, Norway, Puerto Rico, Spain, Sweden, Tanzania, and Turkey, and continental US. Also, scientific trips to Finland, Switzerland, Tunisia, and Uzbekistan.

### **Selected invited lectures and presented papers (if not included in Abstracts listed above)**

- 2010 “Investigating the space-time-environmental continuum using phylogenies, specimen data, and GIS”, Minisymposium Biodiversity Informatics – Systems and Applications, OBIS, Rutgers University, May 2010
- 2010 “Anti-malarial drugs from plants: an ethnobotanical time travel story from colonialists to modern drug bioexploration”. St. John University, March 2010
- 2010 “Medicinal plants in modern and ancient gardens”, The Garden Club of America National Meeting, Feb 2010
- 2010 “Medicinal plants of New Jersey”, Rumson Garden Club, Feb 2010.
- 2008 “Deciphering biogeographic speciation patterns in the New World tropics: biodiversity in 2008 “Deciphering biogeographic speciation patterns in the New World tropics: biodiversity in the Andes, Lost Worlds, and Amazonian white sand savannas”, Old Dominion University, Norfolk, VA, 18 Nov 2008.
- 2007 “Food, drugs, and poisons from New Jersey plants”, Montclair State College, July 2007.
- 2007 “Ecological vicariance as a speciation process in the Andes - examples from Gentianaceae”, Symposium at Missouri Botanical Garden, October 2007.
- 2007 “Brazilian evolutionary relicts in Gentianaceae: Why are southeastern Brazilian species near the ancestors of American plant lineages?”, Tripartite Workshop in Biotechnology and BioEnergy, Rutgers University, 9-11 April 2007.
- 2007 “Phylogenetic studies of *Prepusa* Mart. and *Senaeta* Taub. (Gentianaceae) based on morphological data” (with M. F. Calió & J. R. Pirani), Tripartite Workshop in Biotechnology and BioEnergy, Rutgers University, 9-11 April 2007. [poster]
- 2007 “Biodiversity and evolution of *Chelonanthus* (Gentianaceae): the impact of phylogeny on conservation” (with K. B. Lepis), Tripartite Workshop in Biotechnology and BioEnergy, Rutgers University, 9-11 April 2007. [poster]
- 2006 “Spatial Evolutionary and Ecological Vicariance Analysis of Biodiversity (SEEVA) – a new interdisciplinary approach”, The New York Botanical Garden, Bronx, NY, 24 October 2006.

- 2006 “Central Asia ICBG Biodiversity, Bioinformatics, and Training Associate Program” (with Sasha Eisenman & M. Tadych), 3rd Central Asia ICBG Conference, Kyrgyzstan, July 2006.
- 2004 “Bioprospecting in the age of phylogenetic trees: influence of evolutionary data on evaluation of natural products.” (with S. Eisenman & M. Tadych, poster). ICBG Network meeting, NIH, Bethesda, MD, 14-15 October 2004.
- 2003 “The flora of the Lost Worlds”, Philadelphia Botanical Club, Philadelphia, PA, USA, 18 Dec 2003.

**Teaching and curriculum development:**

*International teaching and other educational activities:*

- 2010 External examiner for Ph.D. thesis by M. Sugumaran at Faculty of Sciences, University of Malaya, Kuala Lumpur, Malaysia.
- 2009 Designed and wrote university handout on the Academic Integrity complaint process for faculty and students at SEBS, Rutgers University.
- 2009 Served as Scientist mentor for a science team at two high schools within the national PlantingScience web-based educational project.
- 2008 Lecturer, Workshop on Good Botanical Practices in “*An International Training Program on Botanicals, Nutraceuticals and Medicinal and Aromatic Plants*”, New Use Agriculture & Natural Plant Products Program, Rutgers University, Aug 11-15, 2008.
- 2008 Organizer, Workshop in “*Phylogenetic analysis of morphological and molecular data using Winclada and TNT*” by invited speaker Christopher Hardy, Graduate Program in Plant Biology, Rutgers University, 29 Feb 2008.
- 2008 Organizer, 5-day Training Course in “*Preserving and Evaluating Biodiversity through Screens-to-Nature technology*”, Maquipucuna Reserve, Ecuador, arranged through GIBEX and Rutgers University, Jan 21-25, 2008 (15 participants).
- 2007 Organizer, 6-day Workshop “*Biodiversity Conservation, Science and Management of Protected Areas: The Yellowstone Experience*”, Yellowstone National Park, ICBG Central Asia and Rutgers University, Aug 26-Sep 3, 2007 (9 participants).
- 2005 Organizer, “*Training course in Biodocumentation*”, ICBG Central Asia project, Rutgers University, Tashkent, Uzbekistan Nov 2005, and Bishkek, Kyrgyzstan Nov 2005.
- 2004 Organizer, “*Training course in NAPIS*”, ICBG Central Asia project, Rutgers University, 6-8 Dec 2004.
- 2004 Organizer, Workshop and seminar on the U.N. Convention of Biological Diversity with Leonard Hirsch, ICBG Central Asia project, Rutgers University, 6 Dec 2004.

*Rutgers University, undergraduate (selected activities):*

- “*First-year Byrne seminar: Safe or sorry? Herbal medicine, folklore and its scientific evidence*”, 11:090:101:06.
- “*Research in Biotechnology*”, 11:126:497, advising of independent research projects.
- “*Research in Genetics*”, 11:447:406/407, advising of independent research projects.
- “*Topics in Ecology, Evolution, and Natural Resources*”, 11:704:104 (guest lectures).
- “*Taxonomy of Vascular Plants*”, renamed to “*Plant Diversity and Evolution*” in 2007, 11:704:411, (co-taught with James French 2005-2007).
- “*Introduction to Ethnobotany*”, 11:776:205, (co-taught with J. Simon).
- “*Special Problems in Plant Science*”, 11:776:495, advising of independent research projects
- “*Honors Tutorial III*”, mentoring of independent studies, George H. Cook Honors Program.
- “*Introduction to Scientific Research*”, Douglass Project for Rutgers Women in Math, Science and Engineering, 06:090:130.

*Rutgers University, graduate:*

- “*Advanced Plant Systematics*”, 4 credits, core course in the Plant Biology graduate curriculum, 16:215:507 (co-taught with J. French 2005-2007).
- “*Concepts and Methods in Evolution*”, 4 credits, core course in the Ecology and Evolution graduate curriculum, 16:215:597 (co-taught with P. Smouse, Karl Kjer and others).
- “*Research in Ecology*”, advising of independent student research projects, 16:215:701/702.
- “*Introduction to Plant Biology*”, core course in the Plant Biology graduate curriculum, 3 credits, 16:765:501 (guest lectures, mentoring of student projects).
- “*Methods in Plant Systematics*”, 3 credits, core track course in the Plant Biology graduate curriculum, 16:765:503.
- “*Core Seminars in Plant Biology*”, core course in the Plant Biology graduate curriculum, 3 credits (co-coordinator, seminars in Systematics and Organismal Plant Biology).
- “*Research in Plant Biology*”, advising of independent student research projects, 16:765:701/702.
- “*Advanced Evolution*” (aka Journal Club in Evolution), 16:215:550, run together with Dr. Karl Kjer for faculty, postdocs, graduate and undergraduate students.

**Advising of students, current:**

Visiting Scientists:

2010	Maria Carmen Molina, Spain
2006-current	Matthew Palmer, Columbia University
2008-current	Wayne Ferren

Graduate students:

2010-current	Rocky Graziose (committee member, Plant Biology Graduate Program) [Ph.D. anti-malarial drugs from plants]
2010-current	Laura Shappell (committee member, Ecology & Evolution Graduate Program)
2010-current	Sarah Pena (committee member, Ecology & Evolution Graduate Program)
2008-current	Ari Novy (committee member, Plant Biology Graduate Program) [Ph.D. Evolution of <i>Microstegium</i> ]
2008-current	Donny Walker (committee member, Plant Biology Graduate Program) [Evolution of Ascomycetes]
2008-current	Elena Tartaglia (committee member, Ecology & Evolution Graduate Program) [pollination ecology of sphinx moths]
2006-current	Jeremy Raincrow (committee member, Molecular Biosciences Graduate program) [Evolution of hox genes in fishes]
2006-current	Mohammed Al-Zein, Old Dominion University (external member of committee) [Taxonomy and morphology of Middle East Campanulaceae]

Undergraduate students, research experience:

2010	Jeanette Allogio, Rutgers University
------	--------------------------------------

Workstudy and research technician students:

2008-current	Sean Lynch, Digitization Technician, Chrysler herbarium
--------------	---

**Advising of students, previous:**

Visiting Scientists:

2008	Maria Carmen Molina, Spain
2009	Maria Carmen Molina, Spain

Postdoctoral students:

- 2000-2001 Dr. Hubert Turner (Molecular systematics of Anacardiaceae).  
1999-2000 Dr. Jan De Laet (Phylogeny of *Lisianthus*, Gentianaceae)  
2003-2007 Dr. Mariusz Tadych (ICBG Central Asia)

Graduate students, year of graduation:

- 2010 Sasha Eisenman (advisor, Plant Biology Graduate Program) [Taxonomic and ethnobotanical evaluation of Central Asian medicinal plants]  
2009 Luis Meija (committee member, Plant Biology Graduate Program) [Evolution of Gnomoniaceae] Career: postdoc at Penn State University.  
2009 Kate B. Lepis (advisor, Plant Biology Graduate Program) [Ph D: Systematics of *Chelonanthus*, Gentianaceae]  
2008 Jeanmaire Molina (advisor, Ecology & Evolution Graduate Program) [Ph D: Systematics of *Leea* (Leeaceae)]  
2008 Cynthia Frasier (advisor, Plant Biology Graduate Program) [Ph D: Systematics and biogeography of *Strychnos*, Loganiaceae]  
2008 Kate B. Lepis (advisor, Plant Biology Graduate Program) [Ph D: Systematics of *Chelonanthus*, Gentianaceae]  
2008 Bonnie Farrell (committee member, Plant Biology Graduate Program) [M Sc: *Aconitum novoboracense*, Ranunculaceae]  
2007 Dana Price (committee member, Ecology & Evolution Graduate Program) [Ph D: evolutionary studies of dung beetles]  
2004 Dr. Kristin Mylecraine (committee member, Ecology and Evolution Graduate Program) [Ph D: Population biology and systematics of *Chamaecyparis*, Cupressaceae]  
2004 Dr. Joseph Bischoff (co-advisor, Plant Biology Graduate Program) [Ph D: Systematics of Clavicipitaceae, Ascomycota]  
2003 Dr. Philippe Chassot, University of Neuchâtel, Switzerland (jury member at thesis defense) [Ph D: revision of *Swertia*, Gentianaceae]  
2003 Dr. Jason R. Grant, University of Neuchâtel, Switzerland (jury member at thesis defense, informal advisor, collaborative research) [Ph D: Revision of *Macrocarpaea*, Gentianaceae]  
2003 Deborah Gries (committee member, Ecology and Evolution Graduate Program) [Masters: Use of PalmPilots in botanical teaching in elementary schools]  
2003 Sung Jin Kim (committee member, Ecology and Evolution Graduate Program) [Masters: Systematics of flea beetles]  
2003 Dr. Rocio Cortes, The New York Botanical Garden / City University of New York (CUNY) (committee member) [Ph D: Systematics and biogeography of *Retiniphyllum*, Rubiaceae]  
2002 Juanita Choo (advisor, Ecology and Evolution Graduate Program) [Masters: ethnobotany of palms]  
2001 Dr. Guilhem Mansion, University of Neuchâtel, Switzerland (jury member at thesis defense) [Ph D: systematics of *Centaurium*, Gentianaceae]

Graduate students, research rotations:

- 2008-2010 Rocky Graziose, Rutgers University (ethnobotany of anti-malarial plants)  
2006-2007 Greg Dahle, Rutgers University (wood histological studies of branch structures in maples)  
2007 Carmen Ulloa, Rutgers University-UMRWJ (Evolutionary analysis of global ethnobotanical uses of *Strychnos*)

2006 Frank Gallagher, Rutgers University (wood histological studies of trees suffering from heavy-metal stress)

Undergraduate students:

- 2009-2010 Amy Sharma, Rutgers University, recipient of Aresty undergraduate research grant, presenter at Rutgers undergraduate research symposium, Spring 2010
- 2009-2010 Vera Chuaypradit, Rutgers University, recipient of Aresty undergraduate research grant, presenter at Rutgers undergraduate research symposium, Spring 2010
- 2008-2010 Stacy Brody, Rutgers University, recipient of Aresty undergraduate research grant, presenter at Rutgers undergraduate research symposium, Spring 2010
- 2008-2009 David Zaitz, Rutgers University (Evolution of *Symbolanthus*)
- 2007-2009 Ramya Raviram, Rutgers University (AFLP Population genetics of *Metasequoia*; recipient of \$1000 Aresty undergraduate research grant)
- 2007 Melissa Li, Rutgers University (Phylogenetic research in *Leea*)
- 2006 Cindy Puzio (research internship, wood anatomy)
- 2006 Bernie Isaacson (research internship, wood anatomy)
- 2006-2008 Sarah Kelsey, Rutgers University (research internship, Sep 2006 – May 2007, project: Introduction of non-native species through ballast in New Jersey)
- 2006 Caolan Kovach-Orr, Rutgers University (research internship, Cook Honors program, Sep 2006 – Dec 2006, project: Spatial and evolutionary analysis of Brazilian gentians)
- 2006 Beth Kushner, Kaitlyn Turo, Hope-Elizabeth Clennon, & Katrina Dulatas, Faculty sponsor for research by freshmen as part of “Introduction to Scientific Research” for the Douglass Project for Rutgers Women in Math, Science and Engineering, Spring 2006.
- 2005-2006 Dan Kulakowski, Rutgers University (research internship, Cook Honors program, Sep 2005 – May 2006, funded by NSF, project: Phylogeny of tribe Helieae)
- 2005-2006 Kristen Paul, Project SUPER, Douglass College, Herbarium assistant, Chrysler herbarium, Summer 2005, 2006.
- 2005 Phillip Miami, Rutgers University (research internship, Jan 2005–Oct 2005, funded by NSF, project: GIS studies of gentians), geo-referencing of scientific collections and GIS analysis of distributional and environmental data
- 2004-2005 Angela Gorzyca, Rutgers University (research internship, Cook honors program, funded by NSF, project: Phylogeny of tribe Helieae)
- 2004-2005 Wendy Peters (now Rosica), Rutgers University (research internship, Jun 2004 – current, funded by NSF, project: Phylogeny of tribe Helieae), produced trilingual field guide to *Tachia*, an anti-malarial plant
- 2003-2005 Matthew Kinkade, Rutgers University (research internship, Aug 2003, funded by Rutgers Research Council, project: Revision of anti-malarial plant *Tachia*, and funded by NSF-REU grant, project: Phylogeny of tribe Helieae); George H. Cook Honors’ thesis “Revision and systematics of *Tachia* (Gentianaceae)” May 2005.
- 2003-2004 Jillian Jaworski, Rutgers University (research internship, Aug 2003 – May 2004, funded by NSF, project: Phylogeny of tribe Helieae).
- 2002-2003 Jeanmaire Molina, University of Philippines (research internship, Aug 2002- July 2003, project: Revision of *Neuburgia*) Currently: Graduate student at Rutgers University with Lena Struwe.

**Service and outreach, selected activities (see also Appointments):**

Determination of worldwide scientific collections of Gentianaceae and Loganiaceae for, e.g. following international herbaria: A, AAU, BELEM, BM, C, CAY, CHRB, COL, CONN, ECON, F, G, GB, GH, HUA, HUT, IAN, INPA, K, L, M, MANCH, MG, MO, MSM, NEU, NOK, NY, P, PORT, QCA, QCNE, RB, S, SP, SPF, U, UPS, US, USM, VEN (standard abbreviations following *Index Herbariorum*), 1995-present.

Rutgers Libraries, developed On-Line Subject Research Guide on Botany and Plant Systematics, 2003.