

**Dr. Lena Struwe**  
**CURRICULUM VITAE (EXTENDED VERSION)**

Institutional address:

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Positions held

2011-2012 Subject Editor, *PhytoKeys*  
2010-2011 Associate Editor, *TAXON*  
2008-present Academic Integrity Facilitator, Rutgers  
2007-present Associate Professor, Dept. of Ecology, Evolution, and Natural Resources,  
(primary), and Dept. of Plant Biology and Pathology (secondary), Rutgers.  
2006-2010 Associate Editor, *Systematic Botany*, ASPT  
2004-present Director, Chrysler Herbarium, Rutgers  
2001-2004 Correspondent, Chrysler Herbarium, Rutgers  
2001-2007 Assistant Professor, Dept. of Ecology, Evolution, and Natural Resources, and  
Dept. of Plant Biology and Pathology, Rutgers  
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; the Neotropical flora; floral anatomy and development;  
ethnobotany; medicinal and edible plants; evolution of food, cooking and plants; weed  
biology and relationships of plants to human culture; conservation of plant biodiversity;  
tropical biogeography and its relationship to ecological niche evolution.

Education

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

Grants and awards (PI unless otherwise noted)

2010 Nomination as Undergraduate Research Mentor of the Year, Aresty Undergraduate  
Research Program, Rutgers University (one of about 20 nominees, university-wide)  
2010 Excellence in Graduate Teaching award from the Graduate School of New Brunswick,  
Rutgers University, NJ (April 2010; one award given out 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; Struwe Co-PI and responsible for Thrust Area “Sustainability and Ecological Impacts”), (Sep 2009-Aug 2014)
- 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, Struwe consultant for 20K/year on medicinal plant identification, sourcing of material, and phylogenetic interpretation), (Nov 2008-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 2008 meeting by the Historical Section of the Botanical Society of America to undergraduate Sarah Kelsey (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).
- 2006 Research Infrastructure Awards, Cook College, Rutgers University, “Cook College DNA Sequencing Facility Upgrade”, \$32,000, Co-PI (PI: Gerben Zylstra; March 2006).
- 2005 New World Consortium for Life Sciences (OSU-Rutgers-USP), “Assessing Plant Patterns of Genetic Diversity in Brazil using GIS and Molecular Systematics”, \$5,000, with J. Pirani, USP (Jan 2005- June 2005).
- 2003 NIH/FIC, International Cooperative Biodiversity Groups, “Building New Pharmaceutical Capabilities in Central Asia” (FIC grant no. U01TW006674-03), \$3.8 million (PI: I. Raskin, Struwe Co-PI as Associate Program Leader for *Biodiversity, Bioinformatics and Training Associate Program*, responsible for biodiversity and conservation assessments and professional training program within this grant, for plant biological interdisciplinary studies in Kazakhstan, Kyrgyzstan, Tajikistan and Uzbekistan in collaboration with Rutgers and University of Illinois; Sep 2003 – April 2009)
- 2003 NSF: DEB, Systematic Biology, “Phylogeny and biogeography of the neotropical tribe Helieae (Gentianaceae)”, \$99,999 (July 2003-July 2005)
- 2003 Rutgers University Research Council grant, “Molecular systematics of the anti-malarial plant *Tachia* (Gentianaceae)”, \$4,900 (Aug 2003 - May 2004)
- 2002 Rutgers University, HATCH grant (USDA, NJ17112): “Molecular phylogenetics, biodiversity, and biogeography of plants in the American tropics” (Nov 2002 – Oct 2008).
- 1994 Uddenberg-Nordingska Foundation, “Flower development and systematics in *Fagraea*, Gentianaceae”, 50,000 Swedish krona [SEK]).
- 1995 C. F. Liljewalchs Resestipendiefond, Uppsala Universitet, 1995 ,travel grant to attend Third International Flora Malesiana Symposium '95, Royal Botanic Gardens, Kew, 6,000 Swedish krona [SEK]).
- 1993 J. A. Wahlbergs Memorial Fund, Royal Swedish Academy of Sciences, 1993, for scientific work in Tanzania, 8,000 Swedish krona [SEK].

**Refereed articles, book chapters, and books (in reverse chronological order)**

- Eisenman, E., D. Zaurov, & **L. Struwe** (Eds). Accepted, in press. *Medicinal Plants of Central Asia: Kyrgyzstan and Uzbekistan*. Springer Verlag.
- Eisenman, S. W., A. O. Tucker, & **L. Struwe**. (in press, 2012). Voucher specimens are essential for documenting source material used in medicinal plant investigations. *Journal of Medicinally Active Plants*
- Pohlit, A. M., E. V. M. dos Santos, T. C. M. da Silva, S. K. R. de Moraes, S. M. Nunomura, **L. Struwe**. 2012. A rare secoiridoid monoterpene and a xanthone from *Tachia grandiflora* Maguire & Weaver. *Biochemical Systematics and Ecology* 44: 267-269  
<http://dx.doi.org/10.1016/j.bse.2012.05.012>,
- Struwe, L.**, K. Lepis, M. Jansen-Jacobs, P.J.M. Maas, et al. (in press) Gentianaceae for *Flora of Guianas*, Utrecht University, the Netherlands.
- Struwe, L.**, C. Frasier, & R. G. Olmstead. (in press, 2011). Gentianales. In: K. de Queiroz, P. D. Cantino, and J. Gauthier (eds.), *Phylonyms: A Companion to the PhyloCode*. University of California Press, Berkeley.
- Struwe, L.** & J. Pringle. (in press). Gentianaceae. In: *Families and Genera of Vascular Plants*. Springer Verlag, Berlin.
- 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.** & 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.
- Eisenman, S.W., A. Poulev, **L. Struwe**, I. Raskin, and D.M. Ribnicky. 2011. Qualitative variation of anti-diabetic compounds in different tarragon (*Artemisia dracuncululus* L.) cytotypes. *Fitoterapia* 82(7): 1062-1074. doi: 10.1016/j.fitote.2011.07.003
- Eisenman, S.W. & **L. Struwe**. 2011. The global distribution of wild tarragon (*Artemisia dracuncululus* L.; Asteraceae) cytotypes with twenty-seven new records from North America. *Genetic Resources and Crop Evolution* 58: 1199-1212. doi: 10.1007/s10722-010-9653-6
- Lepis, K. B., P. J. M. Maas, & **L. Struwe**. 2011. A new species of *Sipapoantha* from northern Brazil (Gentianaceae: Helieae). *Blumea - Biodiversity, Evolution and Biogeography of Plants* 56: 28-32.
- Popovkin, A. V., K. G. Mathews, J. C. Mendes Santos, M. C. Molina, & **L. Struwe** . 2011. *Spigelia genuflexa* (Loganiaceae), a new geocarpic species from the Atlantic forest of northeastern Bahia, Brazil. *PhytoKeys* 6: 47–56, doi: 10.3897/phytokeys.6.1654
- Struwe, L.**, P. E. Smouse, E. Heiberg, S. Haag, & R. G. Lathrop. 2011. Spatial evolutionary and ecological vicariance analysis (SEEVA), a novel approach to biogeography and speciation research, with an example from Brazilian Gentianaceae. *Journal of Biogeography* 38: 1841–1854. doi: 10.1111/j.1365-2699.2011.02532.x
- Kellogg, J., G. Joseph, K. Andrae-Marobela, A. Sosome, C.G. Flint, S. Komarnytsky, G. Fear, **L. Struwe**, I. Raskin, & M. Lila. 2010. Screens-to-nature: opening doors to traditional knowledge and hands-on science education. *NACTA Journal* Sept 2010: 41-48.
- 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. doi: 10.1600/036364409788606424

- Struwe, L.**, J. R. Grant, K. B. Lepis, M. F. Cali6, M. Zarate, & J. Pringle. 2009. Gentianaceae. In: *Catalogue of the Vascular Plants of Bolivia* (P.M. J6rgensen, ed.). Missouri Botanical Garden, St. Louis. (Published online 2009, <http://www.tropicos.org/Name/42000276?projectid=13> , printed version in press)
- Struwe, L.**, V. A. Albert, M. F. Cali6, 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. doi: 10.3417/2008040
- Struwe, L.**, S. Haag, E. Heiberg, & J. R. Grant. 2009. Andean speciation and vicariance in neotropical *Macropypaea* (Gentianaceae-Helieae). *Annals of Missouri Botanical Garden* 96: 450-469.
- Cali6, 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.
- 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* 13: 35-45.
- Maas, P. J. M., **L. Struwe**, & B. von Hagen. 2008. Gentianaceae. Pages 403-408. In: O. Hokche, P. Berry, & O. Huber (eds.), *Nuevo Cat6logo de la Flora Vascular de Venezuela*. Caracas, Venezuela: Fundaci6n Instituto Bot6nico de Venezuela Dr. Tobias Lasser.
- Struwe, L.** 2007. Gentianaceae. In: R. Duno, G. Aymard, & O. Huber (eds.). *Cat6logo anotado e ilustrado de la flora vascular de los llanos de Venezuela*. Caracas, Venezuela : FUDENA : Fundaci6n Empresas Polar : FIBV.
- Grant, J. R. & **L. Struwe**. 2006. *Yanomama araca* (Gentianaceae: Helieae), a new genus and species from outliers of the Guayana Shield on Serra Arac6 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 Amazônia (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 Amazônia (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 Amazônia (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]

### **Abstracts (last 5 years)**

- Calió, M.F., K.B. Lepis, J.R. Pirani & **L. Struwe**. 2011. New insights into the generic circumscription of *Helieae* (Gentianaceae). IBC 2011, Melbourne.
- Struwe, L.**, R. Graziose, S. Brody, M. Sugumaran, P. Smith, I. Raskin, and A. Pohlit. 2011. Tropical *Fagraea* and *Tachia* (Gentianaceae) as potential sources of antimalarial treatments. Botany 2011 Meeting, St. Louis, MI, July 2011.
- Novy, A., P. Smouse, J.M. Hartman, **L. Struwe**, J. Honig, C. Miller, & S. Bonos. 2011. Genetic variation of *Spartina alterniflora* Loisel. in the New York Metropolitan area and its relevance for marsh restoration. Botany 2011 Meeting, St. Louis, MI, July 2011
- Brody, S., R. Graziose, I. Raskin, & **L. Struwe**. Malarial Curatives from Northeast United States. 1st Annual Conference of the American Council for Medicinally Active Plants, July 20-23, 2010 - Rutgers University, New Brunswick, New Jersey, USA. [poster]
- Chuaiyapradit, V., R. Graziose, & **L. Struwe**. Dogwoods: a new anti-malarial drug? 1st Annual Conference of the American Council for Medicinally Active Plants, July 20-23, 2010 - Rutgers University, New Brunswick, New Jersey, USA. [poster]
- Struwe, L.** & Sasha Eisenman. 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, July 20-23, 2010 - Rutgers University, New Brunswick, New Jersey, USA.
- Molina, J., J. Wen, & **L. Struwe**. 2010. Phylogeny and Biogeography of Leeaceae (Vitales): Laurasian Tertiary Dispersals to Gondwanan Continents. International Conference on New Frontiers in Plant Systematics and Evolution. Beijing, China, 7-9 July, 2010.
- 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 *Spigelia*s: 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
- 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. [poster]
- Eisenman, S.W., A. Novy, R. Raviram, **L. Struwe**, S. Bonos, & J. Grabosky. 2008. Assessing the genetic diversity of an *ex situ* germplasm collection of dawn redwoods (*Metasequoia glyptostroboides* Hu et Cheng). HortScience 43(3): 591.
- 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. (awarded The Emanuel Rudolph Award from the Botanical Society of America for the best student paper on a historical subject in botany)
- 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.
- 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.
- 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. [poster]
- 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.
- 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.

**Memberships, professional appointments, etc.**

- |              |  |
|--------------|--|
| 2011-present | Chair, Curriculum committee, Graduate Program in Ecology and Evolution, Rutgers University   |
| 2011         | Chair, OTS Committee for Outstanding Student Paper Award   |
| 2011-present | Member, OTS Membership Committee   |
| 2010-2011    | Member and Interim chair, Curriculum committee, Graduate Program in Ecology and Evolution, Rutgers University                          |
| 2010-present | Member, Committee on Evaluation of the Douglass Project, Rutgers University  |
| 2010-present | Interim Member, Biological Sciences Area Committee, Graduate School of New Brunswick, Rutgers University                               |
| 2009-present | Member (2009-present) and Admissions committee chair (2009-2010), 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 Impact track, 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-present Delegate for Rutgers University in Organization for Tropical Studies (OTS)

2008-2010 Honorary Research Associate, The New York Botanical Garden.

2008 Member, Admissions Committee, Plant Biology Graduate Program.

2007-present Member, George H. Cook Honors Committee, SEBS, Rutgers University.

2007-present Chair, Teaching Enhancement Committee, Dept. of Plant Biology & Pathology, Rutgers University.

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 Member, Teaching Assessment Committee, Dept. of Plant Biology & Pathology, Rutgers University.

2007 Member, Grant Review Panel, National Science Foundation, Division of Environmental Biology.

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 Associate Director: Training and Conservation, Global Institute for BioExploration (GIBEX).

2006-present Honorary Member, Cercle Européen d'Etude des Gentianacées, Lausanne.

2006-present Advisory Board on Women in Science, Engineering and Math, Rutgers University.

2006 Member, Ad Hoc Advisory Committee on Instructional Computing, SEBS, Rutgers University.

2006-2008 Member, American Association of the Advancement of Science (AAAS).

2006-2007 Member, Association for Women in Science (AWIS).

2005-present Webmaster and Coordinator, Evolution at Rutgers: <http://evolru.rutgers.edu>

2005-2008 Chair, FPRC Project Fundraising Committee, Rutgers University.

2005-2008 Member, Study Abroad Committee, FAS, Rutgers University.

2005 Member, Nominating Committee, Ecology & Evolution Graduate Program, Rutgers University.

2005 Member, International Review Board, Annals of Botany.

2004-present Director, Chrysler Herbarium, Rutgers University.

2004-2006 Member, Admissions Committee, Plant Biology Graduate Program.

2004-2005 Member, International Programs Committee, Cook College/NJAES.

2004 Member, Science Communication Awards Committee, Cook College/NJAES.

2003-2009 Associate Program Leader for Biodiversity, Bioinformatics and Training  
Associate Program, ICBG-Central Asia Project, Rutgers University.

- 2003-2007 Honorary Curator, The New York Botanical Garden.
- 2003-present Member, Curriculum Committee, Plant Biology Graduate Program.
- 2003-present Coordinator, Population and Organismal Track, Plant Biology Graduate Program.
- 2002-present Member, Faculty of the Graduate School-New Brunswick, Rutgers University, Graduate Program in Ecology and Evolution & Graduate Program in Plant Biology.
- 2002-2009 Elected At-large Member, Executive Council of Ecology & Evolution Graduate Program, Rutgers University.
- 2002-2005 Member, Curriculum Committee, Natural Resources undergraduate program.
- 2002-2004 Correspondent, Chrysler Herbarium, Rutgers University.
- 2002-2003 Member, Search Committee for Plant Genomics position, Rutgers University.
- 2001-present Founder and webmaster, Gentian Research Network:  
<http://www.rci.rutgers.edu/~struwe/gentnet/>
- 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
- 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

### **Field experience**

Field collecting in Brazil, Ecuador, Hawaii, Norway, Puerto Rico, Spain, Sweden, Tanzania, and Turkey, and continental US. Scientific trips to Costa Rica, Finland, South Africa, Switzerland, Tunisia, and Uzbekistan.

### **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.
- 2008- Served as Scientist mentor for a student science team about two high schools per semester within the national PlantingScience web-based educational project.
- 2009- Administrator for three photo group pools on Flickr: Botanical Morphology and Anatomy (187 members, over 2400 photos: <http://www.flickr.com/groups/botmorph/>), Economic Botany (81 members, over 1000 photos: <http://www.flickr.com/groups/econbot/>), and Organization for Tropical Studies (4 members, over 50 photos: <http://www.flickr.com/groups/orgtrop/>).
- 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).
- 2007 Served as Scientist mentor for a science team at Saint Michael School and Richmond Heights Middle School within the national PlantingScience web-based educational project.
- 2006 Served as Scientist mentor for a science team at Pershing County High School within the national PlantingScience web-based educational project.
- 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:***

- First-year Byrne seminar: Evolution of food, cooking and plants*, 11:090:101, Fall 2011
- First-year Byrne seminar: Safe or sorry? Herbal medicine, folklore and its scientific evidence*, 11:090:101:06, Spring 2010
- Research in Biotechnology*, 11:126:497, Fall 2007, Spring 2008, Fall 2008, advising of independent research projects.
- Research in Genetics*, 11:447:406/407, Fall 2009, Spring 2010, Spring 2011, advising of independent research projects.
- Topics in Ecology, Evolution, and Natural Resources*, 11:704:104, 1 credit, Spring 2008, Spring 2009 (guest lectures).
- Taxonomy of Vascular Plants*, renamed to *Plant Diversity and Evolution* in 2007, 11:704:411, 4 credits, Spring 2002, Fall 2003, Fall 2005, Fall 2006, Fall 2007, Fall 2009 (developed course, coordinator and lecturer, taught all lectures and labs 2002-2003, co-taught with James French 2005-2007, 100% responsibility 2009 onwards), Fall 2011.
- Principles of Evolution*, 11:704:486, Spring 2003 (guest lectures).
- Introduction to Ethnobotany*, 11:776:205, 3 credits, Spring 2003, Spring 2005, Spring 2007, Spring 2009, planned for Spring 2013 (developed course with J. Simon, coordinator, lecturer, co-taught with J. Simon).
- Horticultural Therapy*, 11:776:325, Spring 2003 (guest lectures).
- International Agriculture: New Crops and New Uses*, 11:776:443, Fall 2010 (guest lectures).
- Special Problems in Plant Science*, 11:776:495, 1-4 credits, Spring 2008, Fall 2009, Fall 2011, advising of independent research projects.
- Honors Tutorial III*, mentoring of independent studies, George H. Cook Honors Program, Cook College, 2-3 credits, Spring 2005, Fall 2005-Spring 2006, Fall 2011.
- Introduction to Scientific Research*, Douglass Project for Rutgers Women in Math, Science and Engineering, 06:090:130, 3 credits, Spring 2006 (faculty sponsor for 4 freshmen female students' research projects).
- Initiator and collaborator in setting up a living Teaching collection of plants for Cook College/SEBS courses at the Floriculture Greenhouse.
- Design Week*, Department of Landscape Architecture, Spring 2007, (guest lecture).
- Shaping a life*, course for Douglass Project for Rutgers Women in Math, Science and Engineering (2006).

***Rutgers University, graduate:***

*Advanced Plant Systematics*, 4 credits, core course in the Plant Biology graduate curriculum, 16:215:507, Fall 2005, Fall 2006, Fall 2007, Fall 2009 (coordinator, lecturer, developed course, co-taught with J. French 2005-2007), Fall 2011.

*Concepts and Methods in Evolution*, 4 credits, core course in the Ecology and Evolution graduate curriculum, 16:215:597, Fall 2007, Fall 2008, Fall 2009 (lecturer, co-taught with Karl Kjer and others, 6 lectures, independent projects; guest lectures 2011).

*Research in Ecology*, advising of independent student research projects, 2-6 credits, 16:215:701/702, Spring 2004 , Fall 2004 , Spring 2005 , Summer 2005 , Fall 2005 , Spring 2005 , Spring 2006 , Fall 2007 , Spring 2008 , Fall 2010 , Spring 2011 , Fall 2011 .

*Introduction to Plant Biology*, core course in the Plant Biology graduate curriculum, 3 credits, 16:765:501, Fall 2003, Fall 2005, Fall 2007, Fall 2008, Fall 2009, Fall 2010 (1 lecture each year, mentoring of student projects).

*Methods in Plant Systematics*, 3 credits, core track course in the Plant Biology graduate curriculum, 16:765:503, Fall 2002 (8 students), Spring 2006 (3 students), Spring 2008 (5 students), Spring 2010 (5 students), Coordinator, lecturer, developed course, mentored independent research projects.

*Core Seminars in Plant Biology*, core course in the Plant Biology graduate curriculum, 3 credits, Spring 2006, Spring 2008, 16:765:600 (co-coordinator, responsible for planning and grading of first half of course: seminars in Systematics and Organismal Plant Biology).

*Problems in Plant Biology*, 16:765:602, Spring 2010 as *Integrated Energy Challenges and Opportunities*, 3 credits (1 guest lecture).

*Research in Plant Biology*, advising of independent student research projects, 2-6 credits, 16:765:701/702, Spring 2004 , Summer 2004 , Fall 2004 , Spring 2005 (3 students), Fall 2005 (3 students), Spring 2006 , Fall 2006, Spring 2007, Fall 2007 (3 students), Spring 2008, Fall 2008 , Spring 2009 , Fall 2009 , Spring 2010 .

*Advanced Evolution*, (aka "*Journal Club in Evolution*"), 16:215:550, 1 credit, run together with Dr. Karl Kjer 2004-2008, with Siobain Duffy since 2011, for faculty, postdocs, graduate and undergraduate students, 2004-present, except Spring 2008 (10-20 people attending every week). Since Fall 2009 as a 1-credit course; Fall 2009 (4 students), Spring 2010 (3 students), Fall 2010 (5 students), Fall 2011 (4 students).