

## CURRICULUM VITAE – 1 October 2018

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### **KENNETH J. SYTSMA**

Hofmeister Professor of Botany  
University of Wisconsin  
Madison, WI 53706

### **Areas of Interest**

Phylogenetics of flowering plants; adaptive radiations of island, tepui, and Andean flora; molecular and morphological evolution of Myrtales, Ericales, Lamiales, Brassicales, Campanulales and commelinoid monocots with emphasis on Onagraceae, Combretaceae, Lamiaceae, Ericaceae, Cleomaceae, Bromeliaceae, Rapateaceae, Lobeliaceae; biogeography of disjunctions; phylogeography of rare or invasive species; floristics, biogeography, and DNA barcoding of Great Lakes flora; pollination biology

### **Positions**

2016-	Hofmeister Professor of Botany University of Wisconsin, Madison
1994-	Professor of Botany University of Wisconsin, Madison
2004-2008	co-Chair of Biology Major University of Wisconsin, Madison
2006-2007	Acting Director, Wisconsin State Herbarium
1998-2001	Chair of Botany University of Wisconsin, Madison
1993-1997	Acting Director University of Wisconsin Herbarium, Madison
1990-1994	Associate Professor of Botany University of Wisconsin, Madison
1985-1990	Assistant Professor of Botany University of Wisconsin, Madison
1983-1985	Post-doctoral Researcher Genetics Department University of California, Davis
1979-1983	Fellow, Washington University, St. Louis
1980-1981	Curator, Summit Herbarium (Missouri Botanical Garden) Panama City, Panama
1976-1979	Assistant Curator, Clarence R. Hanes Herbarium Western Michigan University, Kalamazoo

### **Education**

1983	Ph.D.	Washington University, St. Louis, MO	Systematic and Evolutionary Biology
1979	M.A.	Western Michigan University, Kalamazoo (cum laude)	Botany, Ecology

1976                      B.S.                      Calvin College                      Biology  
Grand, Rapids, MI

### Dissertations

Ph.D.                      *Evolution and Biosystematics of the Lisianthus skinneri (Gentianaceae) species Complex in Central America.* Peter H. Raven and Barbara A. Schaal, co-advisors.

M.A.                      *A Vegetational Analysis of a Wetland Complex in Southwestern Michigan.* Richard W. Pippen, advisor.

### Honors and Awards

2016                      Hofmeister Professor of Botany, University of Wisconsin, Madison  
2014-2015                      Past-president, American Society of Plant Taxonomists  
2013-2014                      President, American Society of Plant Taxonomists  
2008-                      Associate Editor, *Journal of Botany*  
2003-2005                      Vilas Award, University of Wisconsin, Madison  
2001                      Distinguished Alumni Award, Western Michigan University  
1999-2006                      Associate Editor, *Plant Systematics and Evolution*  
1998-2001                      Chair, Botany Department, University of Wisconsin, Madison  
1993-1997, 2006-                      Director, University of Wisconsin Herbarium, Madison  
1987                      Young Scientist Award (XIV International Botanical Congress, Berlin)  
1987                      Botanical Society of America Travel Award (to present paper at the XIV International Botanical Congress)  
1986                      George R. Cooley Award (the outstanding ASPT contributed paper presented at the 1986 AIBS annual meeting)  
1985-                      Assistant Professorship, Botany Department, University of Wisconsin, Madison  
1983-1985                      NSF Postdoctoral  
1979-1983                      Washington University Fellowship  
1976-1979                      Western Michigan University Assistantship  
1972-1973                      Freshman Honors Scholarship, Calvin College

### Grants Awarded

2017-2020                      NSF DEB Grant – \$676,373 for Phylogenetics, biogeography, and morphological evolution of an adaptive radiation - *Salvia* (Lamiaceae)  
2016-2019                      Hofmeister Endowment – \$40,000 annually for 3 years  
2015-2017                      NSF Dissertation Improvement Grant – Jeff Rose \$17,060 for Evolutionary trends within the Polemoniaceae (Ericales)  
2010-2016                      NSF Biodiversity Grant – \$2,934,000 for Dimensions: Roles of functional, phylogenetic, and genetic diversity in structuring and sustaining plant communities through environmental change; co-PI with D. Waller, T. Givnish, K. Cameron  
2013-2015                      NSF Dissertation Improvement Grant – Daniel Spalink \$19,565 for Phylogeny, biogeography, and population genetics of *Scirpus* (Cyperaceae))

- 2010-2015 US Fish & Wildlife Service – \$43,920 for Gaining Crucial Knowledge Regarding the Federally Endangered *Eriogonum pelinophilum*: an examination of conservation genetics and species relationships
- 2010-2011 University of Wisconsin WARF Foundation - \$42,418 for Molecular Phylogenetics in *Clarkia* (Onagraceae)
- 2009-2011 NSF Dissertation Improvement Grant – Ben Grady (\$10,429 for Edaphic endemism in *Eriogonum* (Polygonaceae): a molecular phylogenetic approach)
- 2009-2011 NSF Dissertation Improvement Grant – Bryan Drew (\$14,214 for Systematics, evolution, and biogeography of *Lepechinia* (Lamiaceae))
- 2008-2009 Hilldale/Holstrom Undergraduate/Faculty Research Fellowship (for Phylogenetics placement and horizontal gene transfer in the holoparasite *Mitrastema*); with Tom Kleist)
- 2004-2009 NSF: Tree of Life - \$3 million (\$180,000 [UW portion] for Resolving the Angiosperm Tree and 12 of its Thorniest Branches)
- 2005-2007 NSF Dissertation Improvement Grant – Jay Walker (\$10,000 for Systematics of *Salvia* sect. *Audibertia*, subg. *Calosphace*, and related Meriandreae)
- 2006-2007 Hilldale/Holstrom Undergraduate/Faculty Research Fellowship (for Testing Different Phylogenetic Histories in *Clarkia*); with Cody Williams)
- 2000-2006 NSF Grant (\$250,000 for Molecular Phylogenetics and Biogeography of Endemic Elements of the Guayana Highland Flora; coPI with P. Berry, T. J. Givnish)
- 2003-2005 Vilas Award (\$25,000 for Molecular Phylogenetics, Speciation, and Genomics in *Clarkia* (Onagraceae))
- 2003-2004 Hilldale/Holstrom Undergraduate/Faculty Research Fellowship (for Genetic Analysis of Invasive Purple Loosestrife); with Nic Jelinski)
- 2000-2002 Smithsonian Mellon (\$96,050 for Evolution and Historical Biogeography of Onagraceae Tribes Onagreae, a Major Lineage Derived from the Madro-Tertiary Flora; coPI with W. Wagner et al.; money funneled through Smithsonian)
- 2000-2002 NSF Dissertation Improvement Grant - Jocelyn Hall (\$10,000 for Floral Evolution and Systematics of the Plant Family Capparaceae)
- 2000-2001 Hilldale/Holstrom Undergraduate/Faculty Research Fellowship (for Using novel genome painting techniques to study polyploidy and chromosome evolution in *Clarkia* (Onagraceae); with Jeffrey Morawetz)
- 2000 NSF REU (\$5,000 for Construction of a *Brodiaea* BAC library for FISH/GISH studies of chromosome evolution)
- 1999-2001 NSF Dissertation Improvement Grant - Chris Pires (\$10,000 for Integrating Biosystematics and Phylogenetics: Floral Diversity, Polyploidy, and Serpentine Endemism in Themidaceae)
- 1995-1998 NSF Grant (\$160,000 for Molecular Evolution, Adaptive Radiation and Geographic Speciation in the Hawaiian Lobelioids; coPI with T.J. Givnish)
- 1994-1998 NSF Grant (\$185,000 for Molecular Systematics and Adaptive Radiation in Myrtales; PI)
- 1995-1997 NSF Dissertation Improvement Grant - Molly Nepokroeff (\$10,000 for Evolution of Breeding Systems in Hawaiian *Psychotria*: A Phylogenetic Approach)
- 1995-1997 NSF Dissertation Improvement Grant - Michelle Zjhra (\$10,000 for Phylogeny and Adaptive Radiation of Bignoniaceae in Madagascar)

1994-1996 NSF Dissertation Improvement Grant - Harvey Ballard (\$10,000 for Phylogenetic Relationships, Infrageneric Classification and Character Evolution in *Viola* (Violaceae); coPI with R.R. Kowal)

1993-1995 NSF Grant (\$120,000 for Molecular Systematics of the Rapateaceae and Allied Monocot Families; coPI with T.J. Givnish)

1992-1993 NSF REU Supplement (\$5,000 for DNA Sequencing to Assess Generic Relationships within Rapateaceae of the Guayana Shield; coPI with T.J. Givnish)

1992 NSF REU Supplement (\$5,000 for DNA Sequencing to Evaluate Putative Rapid Speciation in *Clarkia* sect. *Rhodanthos* in California)

1991-1994 NSF Grant (\$274,102 for Molecular Systematics in Epilobieae, Onagraceae and Myrtales)

1991-1993 NSF Dissertation Improvement Grant - William Hahn (\$16,500 for Molecular and Morphological Analysis of *Caryota* (Palmae))

1991 NSF Supplementary Grant - William Hahn (\$2,550 for Field Trip to VietNam)

1990-1992 NSF Grant (\$125,000 for Molecular Evolution in *Brocchinia*, Pitcairnioideae, and Allied Monocots; coPI with T.J. Givnish as PI)

1990 NSF REU Supplement (\$4,000 for Molecular Evolution in *Brocchinia*; coPI with T. Givnish)

1990 Nave Fund (\$4,000 for Molecular Evolution in the Family Bromeliaceae and Field Collection in the Guayana Shield; with T.J. Givnish)

1989-1991 NSF Dissertation Improvement Grant - Karen K. Nakasone (\$7,715 for Molecular Phylogenetics of *Phlebia* (Basidiomycotina) and Related Genera)

1989-1991 NSF Grant (\$37,365 for Cladistic Analyses of *Viburnum* based on Molecular Characters; subcontract PI with M. Donoghue as coPI)

1989 NSF REU Supplement (\$4,000 for Sequence Analysis of the rbcL Gene in the Onagraceae)

1989-1991 NSF Biological Instrumentation Program (55% of \$170,000 for Plant Growth Facility at the Department of Botany, University of Wisconsin-Madison; one of three co-PIs with T. Sharkey PI)

1989-1990 Wisconsin Alumni Research Foundation Grant (\$18,358 for Comparative Sequence Analysis of the Chloroplast *rbcL* Gene)

1989-1990 National Geographic Society (\$21,000 for Molecular Evolution, Adaptive Radiation, and Speciation in Hawaiian Lobelioids; coPI with T. J. Givnish)

1988-1990 NSF Dissertation Improvement Grant - James F. Smith (\$15,225 for Systematics and Evolution of *Columnea* section *Pentadenia* (Gesneriaceae))

1988-1990 NSF Grant (\$74,718 for Molecular Evolution and Adaptive Radiation in the Bromeliad Genus *Brocchinia*; coPI with T. J. Givnish)

1986-1989 NSF Grant (\$125,000 for Molecular Phylogenetics in Onagraceae)

1987-1988 Wisconsin Alumni Research Foundation Grant (\$6,480 for Molecular Phylogenetics in Onagraceae)

1987 Nave Fund (\$5,500 for Molecular Evolution in the Family Rapateaceae of the Guayana Shield; with T.J. Givnish)

1984-1985 NSF Post-doctoral Grant (with L.D. Gottlieb as PI; \$90,000)

1978 Sigma Xi National Grant-in-Aid (\$500)

1978 Western Michigan Biology Graduate Research Grant (\$1,000)

1977 Western Michigan Graduate College Research Grant (\$1,000)

## Professional Affiliations

Botanical Society of America  
American Society of Plant Taxonomists  
Society for the Study of Evolution  
Association of Systematic Biologists

## Experience

2014-2015 Past-President, American Society of Plant Taxonomists  
2013-2014 President, American Society of Plant Taxonomists  
2012-2013 President-elect, American Society of Plant Taxonomists  
2006-2007 Acting Director, Wisconsin State Herbarium  
2004-2007 co-Chair of Biology Major, University of Wisconsin, Madison  
2005 Exploration and plant collection of Lamiaceae in Argentina and Uruguay  
1998-2001 Chair, Botany Department, University of Wisconsin, Madison  
1998-1999 Instructor: tropical biology course in Hawaii  
1998-2006 Associate Editor, *Plant Systematics and Evolution*  
1994- Full Professor, Botany Department, University of Wisconsin, Madison  
1995- Faculty, Au Sable Institute of Environmental Sciences, Michigan  
1993-1997 Director, University of Wisconsin Herbarium  
1996 Review panel for evaluating Royal Botanic Gardens, Kew  
1995 Review panel for evaluating Biological Aspects of Conservation major, UW  
1994-1995 Instructor: tropical biology course in Venezuela  
1995- Panel member in Systematic Biology Program, NSF  
1991 Exploration and plant collection of Bromeliaceae in the tepuis of the Guayana Highlands of Venezuela  
  
1990-1994 Associate Professor, Botany Department, University of Wisconsin, Madison  
1990-1991 Nominations Committee, American Society of Plant Taxonomists  
1989 Exploration and plant collection of Lobeliaceae and Goodeniaceae in the Hawaiian Islands  
  
1988-1992 Editorial Board, Systematic Botany  
1988 NSF Postdoctoral Grants Panel  
1987 Exploration and plant collection of Bromeliaceae and Rapateaceae in the Guayana Highlands of Venezuela  
  
1985-1990 Assistant Professor, Botany Department, University of Wisconsin, Madison  
1983-1985 Post-doctoral Researcher, U California, Davis: Molecular Systematics of *Clarkia*  
1981-1983 Teaching Assistant, Washington University  
1980-1981 Resident Curator, Summit Herbarium, Panama  
1980 Tropical Ecology course 80-3; Organization for Tropical Studies, Costa Rica  
1978-1979 Field Assistant, botanical research in Michigan: Reproductive Barriers to Hybridization in *Aureolaria* (Scrophulariaceae)  
1978 Field Assistant, botanical research in Belize: Pollination Biology of *Costus*  
1977-1979 Assistant Curator, Clarence R. Hanes Herbarium, Western Michigan University  
1976-1979 Teaching Assistantship, Western Michigan University

## Courses Taught

- Botany 400 — Plant Systematics (Fall, yearly)
- Botany 401 — Vascular Flora of Wisconsin (Spring, even years)
- Botany 422 — Plant Geography (Spring, odd years)
- Botany 563 — Molecular Approaches in Systematics and Evolution (4 times)
- Botany 639 & 640 — Tropical Biology Field Course in Venezuela & in Hawaii (once each)
- Botany 940 — Systematics & Evolution Graduate Seminar (Spring & Fall, yearly)
- Au Sable, MI — Field Botany (5 weeks, every summer)

## Invited National and International Symposia (recent)

- 2018 Evolutionary History, Biogeography, and Floral Morphometrics of *Salvia* (Lamiaceae) Colloquium, Botanical Society of America, Rochester, Minnesota
- 2018 Ericaceae: Systematics, Ecology and Evolution Colloquium, Botanical Society of America, Rochester, Minnesota
- 2016 Patterns and Processes of American Amphotropical Plant Disjunctions: New Insights, Botanical Society of America, Savannah, Georgia
- 2015 Morphospaces, Morphometrics, and Phylogenetics, Botanical Society of America, Edmonton, Alberta
- 2013 A Colloquium Honoring Leslie D. Gottlieb, Botanical Society of America, New Orleans, LA
- 2011 After the Break-up: Dispersal and Biogeography of Late Gondwanan Austral-Pacific Plant Lineages, XVIII International Botanical Congress, Melbourne, Australia
- 2011 Onagraceae as a Model System – the Peter Raven Symposium, Botanical Society of America, St. Louis, MO
- 2009 Angiosperm Tree of Life, Botanical Society of America, Snowbird, UT
- 2006 Evolution of Ericales, Botanical Society of America, Chico, CA
- 2005 Keynote Address, XVII International Botanical Congress, Vienna
- 2005 Recent Advances in Angiosperm Phylogenetics, XVII International Botanical Congress, Vienna
- 2003 Keynote Address, Argentina/Chile Botanical Society Congress, San Luis
- 2002 Tropical Intercontinental Disjunctions, Madison, WI
- 2000 Plant Systematics: a Half-Century of Progress and Future Challenges, Portland, OR
- 1999 The Order Myrtales (organizer), XVI International Botanical Congress, St. Louis
- 1998 Second International Conference on the Comparative Biology of Monocots, Sydney, Australia [presented by T.J. Givnish].
- 1995 “Adaptive Radiation and Molecular Phylogenetic Data” (co-organizer), McGill University, Montreal
- 1995 International Symposium ‘Monocotyledons: Systematics and Evolution’, Royal Botanic Gardens, Kew

## Graduate Students

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|----------------|---------------|---|
| Alexa DiNicola | Ph.D. student | Phylogenetics and evolution of western North American <i>Potentilla</i> complex |
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Chloe Drummond	Ph.D. 2018	Phylogeography of <i>Rubus parviflorus</i> (Rosaceae) - a western North American-Great Lakes disjunct
Jeffrey Rose	Ph.D. 2018	Phylogenetics, biogeography, and speciation in <i>Polemonium</i> (Polemoniaceae)
John Zaborsky	Ph.D. 2018	Phylogenetics, radiation, and evolution of succulence in Malagasy Pedaliaceae
Daniel Spalink	Ph.D. 2015	Phylogenetics and adaptation in <i>Scirpus</i> (Cyperaceae)
Ben Grady	Ph.D. 2012	Evolution and radiation of serpentine endemics in <i>Eriogonum</i> (Polygonaceae)
Brent Berger	Ph.D. 2012	Phylogenetics and evolution of Combretaceae
Bryan Drew	Ph.D. 2011	Phylogenetics and biogeography of <i>Lepechinia</i> (Lamiaceae)
Josh Sulman	M.S. 2010	Phylogeny and ecology of <i>Sparganium</i> – the bur reeds
Rachel S. Jabaily	Ph.D. 2009	Phylogenetics, biogeography, and radiation in <i>Puya</i> (Bromeliaceae)
Marie Trest	M.S. 2007	Phylogenetics and species concepts in the lichens <i>Everniastrum</i> lichen complex (co-advised with A. Gargas)
Jay Walker	Ph.D. 2006	Phylogenetics and floral evolution in neotropical <i>Salvia</i> (Lamiaceae)
Jocelyn Hall	Ph.D. 2003	Systematics and floral evolution of Capparaceae and other core Brassicales
Chris Pires	Ph.D. 2000	Phylogenetics and biosystematics in the <i>Brodiaea</i> (Themidaceae) complex.
Sky Feller	M.S. 2000	Conservation and evolution of the threatened <i>Gnaphalium saxicola</i> (Asteraceae) in Wisconsin
Celeste Raker	M.S. 1999	Taxonomy of wild potatoes.
Aaron Rodriguez	Ph.D. 1999	Ecology and molecular systematics of <i>Tigridia</i> (Iridaceae).
Michelle Zjhra	Ph.D. 1998	Molecular systematics of Bignoniaceae in Madagascar.
Molly Nepokroeff	Ph.D. 1997	Molecular systematics and evolution of breeding systems in <i>Psychotria</i> (Rubiaceae) in Hawaii.
Timothy Evans	Ph.D. 1995	Systematics of the Commelinaceae and Commelinales.
Elena Conti	Ph.D. 1994	Molecular systematics of Myrtales and related families.
Molly Nepokroeff	M.S. 1992	Biosystematics of axillary inflorescenced <i>Psychotria</i> in Central America.
William Hahn	Ph.D. 1993	Monograph and molecular systematics of <i>Caryota</i> (Palmae).
Karen Nakasone	Ph.D. 1991	Molecular systematics of the basidiomycete <i>Phlebia</i> using mitochondrial DNA.
James F. Smith	Ph.D. 1991	Biosystematics and evolution in <i>Columnea</i> (Gesneriaceae).
Randy L. Smith	M.S. 1988	Chloroplast DNA-based phylogeny of <i>Populus</i> (Salicaceae).

### Post-Doctorals\* and Faculty Visitors

Dr. Brian Husband                      Molecular systematics of *Epilobium* and *Chamerion*

Dr. Shirley Graham	<i>rbcL</i> and <i>ndhF</i> sequencing of Lythraceae
Dr. James Rodman	Molecular phylogenetics of glucosinolate plants
*Dr. David Baum	Molecular phylogenetics in Epilobieae (Onagraceae)
*Dr. Charles Delwiche	Transition from Coleochaetales to land plants using chloroplast DNA sequence information
*Dr. William Alverson	Molecular phylogenetics of bombacoid Malvaceae
Dr. David Spooner	Molecular systematics and biogeography of <i>Solanum</i> sect. <i>Petota</i>
*Dr. Joachim Kadereit	Molecular phylogenetics of <i>Papaver</i>
Dr. Jorge Crisci	Phylogenetics of Onagraceae and Ericales
Dr. Liliana Katinas	Phylogenetics of Mutisieae and <i>Camissonia</i>
*Dr. Juerg Schoenenberger	Phylogenetics of Ericales
*Dr. Ricardo Kriebel	Molecular phylogenetics and evolution of Wisconsin flora

## Manuscripts

Rose, J. P., and K. J. Sytsma. Floral evolution in Fouquieriaceae and Polemoniaceae (Ericales) in the context of pollinator-mediated selection.

Spalink, D., R. Kriebel, G. Sonnier, W. S. Alverson, C. Bai, J. P. Rose, J. G. Zaborsky, K. M. Cameron, T. J. Givnish, D. M. Waller, and K. J. Sytsma. The evolution of genome size and its ecological correlates: insights using a phylogenetic tree of the Northeastern North American flora. *New Phytologist*.

Spalink, D., É. Lèveillé-Bourett, J. R. Starr, K. J. Sytsma. Divergent geographical, morphological, and ecological evolution in the bulrushes (*Scirpus*) and cotton-grasses (*Eriophorum*). *American Journal of Botany*

## Publications

Kriebel, R., B. T. Drew, C. P. Drummond, J. G. González-Gallegos, F. Celep, M. M. Mahdjoub, J. P. Rose, C.-L. Xiang, G.-X. Hu, J. B. Walker, E. M. Lemmon, A. R. Lemmon, and K. J. Sytsma. Tracking the temporal shifts in area, biomes, and pollinators in the radiation of *Salvia* (sages, Lamiaceae) across continents: leveraging Anchored Hybrid Enrichment and targeted sequence data. *American Journal of Botany* (**submitted**).

van Velzen, R., G. A. Wahlert, M. S.M. Sosef, P. P. Lowry, II, H. E. Ballard, Jr., K. J. Sytsma, and F. T. Bakker. Phylogeographic analysis of *Rinorea* (Violaceae) reveals multiple recent dispersals from Africa to Madagascar. *Journal of Biogeography* (**submitted**).

Spalink, D., R. MacKay, and K. J. Sytsma. Phylogeography, population genetics, and distribution modeling reveal vulnerability of the Atlantic Coastal Plain Flora: a case study of *Scirpus longii* (Cyperaceae). *Molecular Ecology* (**revision in review**).

Spalink, D., R. Kriebel, P. Li, M. C. Pace, B. T. Drew, J. G. Zaborsky, J. Rose, C. P. Drummond, M. A. Feist, W. S. Alverson, D. M. Waller, K. M. Cameron, T. J. Givnish, and K. J. Sytsma. Spatial phylogenetics reveals evolutionary constraints on the assembly of a large regional flora. *American Journal of Botany* (**in press**).



- Spalink, D., J. Pender, M. Escudero, A. L. Hipp, E. H. Roalson, J. Starr, M. J. Waterway, L. Bohs, and K. J. Sytsma. 2018. The spatial structure of phylogenetic and functional diversity in the United States and Canada: an example using sedges (Cyperaceae). *Journal of Systematics and Evolution* 56: 449-465 doi: 10.1111/jse.12423.
- Rose, J. P., T. Kleist, S. Löfstrand, B. T. Drew, J. Schönenberger, and K. J. Sytsma. 2018. Phylogeny, historical biogeography, and diversification of angiosperm order Ericales suggest ancient Neotropical and East Asian connections. *Molecular Phylogenetics and Evolution* 122: 59-79.
- Edger, P. P., J. C. Hall, A. Harkess, M. Tang, J. Coombs, S. Mohammadin, M. E. Schranz, Z. Xiong, J. Leebens-Mack, B. C., Meyers, K. J. Sytsma, M. Koch, I. A. Al-Shehbaz, and J. C. Pires. 2018. Brassicales phylogeny inferred from 72 plastid genes: a reanalysis of the phylogenetic localization of two paleopolyploid events and origin of novel chemical defenses. *American Journal of Botany* 105: 1-7. [INVITED SPECIAL ARTICLE for the **Special Issue: Using and Navigating the Plant Tree of Life**] doi:10.1002/ajb2.1040
- Kriebel, R., M. Khabbazian, and K. J. Sytsma. 2017. Shifts in pollen shape and size in the order Myrtales using Ornstein-Uhlenbeck models. *PLoS ONE* 12(12): e0187228. <https://doi.org/10.1371/journal.pone.0187228>
- Drew, B. T., S. Liu, J. M. Bonifacino, and K. J. Sytsma. 2017. Amphitropical disjunctions in New World Menthinae (Lamiaceae): three Pliocene dispersals to South America following late Miocene dispersal to North America from Old World. *American Journal of Botany* 104: 1695-1707. [**special symposium series on Amphitropical Distributions**]
- Drew, B. T., J. G. González-Gallegos, C.-L. Xiang, R. Kriebel, C. P. Drummond, J. B. Walker, and K. J. Sytsma. 2017. *Salvia* united: the greatest good for the greatest number. *Taxon* 66: 133-145.
- Spalink, D., B. T. Drew, M. C. Pace, J. G. Zaborsky, J. R. Starr, K. M. Cameron, T. J. Givnish, and K. J. Sytsma. 2016. Biogeography of the cosmopolitan sedges (Cyperaceae) and the area-richness correlation in plants. *Journal of Biogeography* 43: 1893-1904 doi:10.1111/jbi.12802 [**special paper**]
- Rose, J. P., R. Kriebel, and K. J. Sytsma. 2016. Shape analysis of moss sporophytes (Bryophyta): insights into land plant evolution. *American Journal of Botany* 103: 652-662.
- Cardinal-McTeague, W. M., K. J. Sytsma, J. C. Hall. 2016. Biogeography and diversification of Brassicales: a 103 million year chronicle. *Molecular Phylogenetics and Evolution* 99: 204-224.
- Sytsma, K. J. 2016. Warren Lambert Wagner – Recipient of the 2015 Asa Gray Award. *Systematic Botany* 41: 1-2.
- Spalink, D., B. T. Drew, M. C. Pace, J. G. Zaborsky, P. Li, K. M. Cameron, T. J. Givnish, and K. J. Sytsma. 2016. Evolution of geographical place and niche space: patterns of diversification in the North American sedge (Cyperaceae) flora. *Molecular Phylogenetics and Evolution* 95: 183-195.

- Berger, B. A., R. Kriebel, D. Spalink, and K. J. Sytsma. 2016. Divergence times, historical biogeography, and shifts in speciation rates of Myrtales. *Molecular Phylogenetics and Evolution* 95: 116-136.
- Roalson, E. H., J. C. Hall, J. P. Riser II, W. M. Cardinal-McTeague, T. S. Cochrane, and K. J. Sytsma. 2015. A revision of generic boundaries and nomenclature in the North American cleomoid clade (Cleomaceae). *Phytotaxa* 205: 129-144.
- Walker, J. B., B. T. Drew, and K. J. Sytsma. 2015. Unravelling species relationships and diversification within the iconic California Floristic Province sages (*Salvia* subgenus *Audibertia*, Lamiaceae). *Systematic Botany* 40: 826-844.
- Sytsma, K. J. 2015. Kenneth Cameron – Recipient of the 2014 Peter Raven Award. *Systematic Botany* 40: 4-5.
- Drew, B. T., N. I. Cacho, and K. J. Sytsma. 2014. The transfer of two rare monotypic genera, *Neoeplingia* and *Chaunostoma*, to *Lepechinia* (Lamiaceae), and notes on their conservation. *Taxon* 63: 831-842.
- Léveillé-Bourret, E., C. Gilmour, J. R. Starr, R. F. C. Naczi, D. Spalink, and K. J. Sytsma. 2014. Searching for the sister to sedges (*Carex*): resolving relationships within the Cariceae-Dulichieae-Scirpeae clade (Cyperaceae). *Botanical Journal of the Linnean Society* 176: 1-21.
- Sytsma, K. J., D. Spalink, and B. Berger. 2014. Calibrated chronograms, fossils, outgroup relationships, and root priors: re-examining the historical biogeography of Geraniales. *Biological Journal of the Linnean Society* 113: 29-49.
- Givnish, T. J., M. H. J. Barfuss, B. Van Ee, R. Riina, K. Schulte, R. Horres, P. A. Gonsiska, R. S. Jabaily, D. M. Crayn, J. A. C. Smith, K. Winter, G. K. Brown, T. M. Evans, B. K. Holst, H. Luther, W. Till, G. Zizka, P. E. Berry, and K. J. Sytsma. 2014. Adaptive radiation, correlated and contingent evolution, and net species diversification in Bromeliaceae. *Molecular Phylogenetics and Evolution* 71: 55-78.
- Riser II, J. P., W. M. Cardinal-McTeague, J. C. Hall, W. J. Hahn, K. J. Sytsma, and E. H. Roalson. 2013. Phylogenetic relationships among the North American cleomoids (Cleomaceae): a test of Iltis' reduction series. *American Journal of Botany* 100: 2102-2111.
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