

# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities

- Ackerly, David**, 2004. Adaptation, niche conservatism, and convergence: Comparative studies of leaf evolution in the California chaparral. *Am. Nat.* 163(5):654-671.
- Ackerman, J.D. and W.M. Whitten**, 2009. A new *Ornithidium* (Orchidaceae: Maxillariinae) from the Massif de la Hotte of Haiti. *Lankesteriana* 9(3):
- Adams, Robert P.**, 2013. Comparison of the volatile leaf and wood oils of the subspecies of *Pinus torreyana*: two isolated narrow endemics in California. *Phytologia* (May 2013) 95(2):188-191.
- Akulova-Barlow, Zoya**. A Diversity of Fruit in California Asteraceae. 4th Annual Symposium of North Californian Botanists. January 10-11, 2011.
- Almeida, Ana Maria R., Roxana Yockteng, Wagner C. Otoni and Chelsea D. Specht**, 2015. Positive selection on the K domain of the AGAMOUS protein in the Zingiberales suggests a mechanism for the evolution of androecial morphology. *EvoDevo* 6:7, DOI 10.1186/s13227-015-0002-x.
- Almeida, Ana Maria Rocha, Roxana Yockteng, James Schnable, Elena R. Alvarez-Buylla, Michael Freeling, and Chelsea D. Specht**, 2014. Co-option of the polarity gene network shapes filament morphology in angiosperms. *Scientific Reports* 4:6194 DOI: 10.1038/srep06194.
- Alosi, M.C. and R.B. Park**, 1983. A survey of phloem polypeptides in conifers Pinaceae, Cupressaceae. *Current Topics in Plant Biochemistry-Physiology* 2:250. Proceedings, inaugural Plant Biochemistry and Physiology Symposium held, Univ. Missouri-Columbia, 7-9 April 1982.
- Andreasen, Katarina & Bruce G. Baldwin**, 2001. Unequal Evolutionary Rates Between Annual and Perennial Lineages of Checker Mallows (*Sidalcea*, Malvaceae): Evidence from 18S-26S rDNA Internal and External Transcribed Spacers. *Mol. Biol. Evol.* 18(6): 936-944.
- Andreasen, Katarina and Bruce G. Baldwin**, 2003. Reexamination of relationships, habitat, evolution, and phylogeography of checker mallows (*Sidalcea*; Malvaceae) based on molecular phylogenetic data. *Amer. J. Bot.* 90(3): 436-444.
- Aulenback, Kevin R. and Ben A. LePage**, 1998. *Taxodium wallisii* sp. nov.: First occurrence of *Taxodium* from the upper cretaceous. *Int. J. Plant Sci.* 159(2):367-390.
- Averett, J.E., W.J. Hahn, P.E. Berry, and P.H. Raven**, 1986. Flavonoids and flavonoid evolution in *Fuchsia* (Onagraceae). *Amer. J. Bot.* 73:1525-1534.
- Badger M., V.M. Ortega-Jimenez, L. von Rabenau, A. Smiley, and R. Dudley**, 2015. Electrostatic charge on flying hummingbirds and its potential role in pollination. *PLoS ONE* 10(9): e0138003. doi:10.1371/journal.pone.0138003
- Baker, H.G.**, 1964. Variation in style-length in relation to outbreeding in *Mirabilis* (Nyctaginaceae). *Evolution* 18:507-509.
- Baker, H.G.**, 1965. Characteristics and modes of origin of weeds. Pp 147-172 in "The Genetics of Colonizing Species" (edited by H.G. Baker and G.L. Stebbins), Academic Press, New York.
- Baker, H.G.**, 1965. Charles Darwin and the perennial flax – a controversy and its implications. *Huntia* 2:141-161.
- Baker, H.G.**, 1965. *Plants and Civilization*. Wadsworth Press, Belmont.
- Baker, H.G.**, 1966. The evolution of floral heteromorphism and gynodioecism in *Silene maritima*. *Heredity* 21:689-692.

# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities (continued)

- Baker, H.G.**, 1967. The evolution of weedy taxa in the *Eupatorium microstemon* species aggregate. *Taxon* 16:293-300.
- Baker, H.G.**, 1972. A fen on the northern California coast. *Madrono* 21:405-416.
- Baker, H.G.**, 1972. The migrations of weeds. Chapter 21 (pp. 327-347) in D.H. Valentine (ed.) *Taxonomy, Phytogeography and Evolution*, Academic Press, London.
- Baker, H.G.**, 1972. Seed weight in relation to environmental conditions in California. *Ecology* 53:997-1010.
- Baker, H.G.**, 1974. The evolution of weeds. *Annual Review of Ecology and Systematics* 5:1-24.
- Baker, H.G.**, 1975. Sugar concentrations in nectars from hummingbird flowers. *Biotropica* 7:37-41.
- Baker, H.G.**, 1976. Sporophyte-gametophyte interactions in *Linum* and other genera with heteromorphic self-incompatibility. Chapter (pp. 191-199) in D.L. Mulcahy (ed.) "Gamete Competition in Plants and Animals" North Holland, Amsterdam.
- Baker, H.G., and C.A. Panetsos**, 1968. The origin of variation in "wild" *Raphanus sativus* (Cruciferae) in California. *Genetica* 38:243-274.
- Baker, H.G., and I. Baker**, 1967. The cytotaxonomy of *Filipendula* (Rosaceae) and its implications. *Amer. J. Bot.* 54:1027-1034.
- Baker, H.G., and I. Baker**, 1973. Amino acids in nectar and their evolutionary significance. *Nature* 241:543-545.
- Baker, H.G., and I. Baker**, 1973. Some anthecological aspects of the evolution of nectar-producing flowers, particularly amino acid production in nectar. Chapter 12 (pp. 243-264) in V.H. Heywood (ed.) "Taxonomy and Ecology" Academic Press, London.
- Baker, H.G., and I. Baker**, 1975. Studies of nectar constitution in pollinator-plant coevolution. Chapter (pp. 100-140) in L.E. Gilbert and P.H. Raven (eds.) "Co-evolution of Animals and Plants. Univ. of Texas Press, Austin.
- Baker, H.G., and I. Baker**, 1979. Sugar ratios in nectars. *Phytochemical Bulletin* 12:43-45.
- Baker, H.G., and I. Baker**, 1979. Starch in angiosperm pollen grains and its evolutionary significance. *Amer. J. of Bot.* 66:591-600.
- Baker, H.G., and I. Baker**, 1979. Chemical constituents of the nectars of two *Erythrina* species and their hybrid. *Annals of the Missouri Botanical Garden* 66:446-450.
- Baker, H.G., and I. Baker**, 1982. Chemical constituents of nectar in relation to pollination mechanisms and phylogeny. Chapter (pp. 131-171) in H.M. Nitecki (ed.) "Biochemical Aspects of Evolutionary Biology," Univ. of Chicago Press, Chicago.
- Baker, H.G., and I. Baker**, 1982. Some chemical constituents of floral nectars of *Erythrina* in relation to pollinators and systematics. *Allertonia* 3:25-38.
- Baker, H.G., and I. Baker**, 1983. Floral nectar constituents in relation to pollinator type. Chapter 5 (pp. 117-141) in C.E. Jones and R.J. Little (eds.) "Handbook of Experimental Pollination Biology," Van Nostrand-Reinhold, New York.
- Baker, H.G., and I. Baker**, 1986. The occurrence and significance of amino acids in floral nectar. *Pl. Syst. Evol.* 151:175-186.
- Baker, I. and H.G. Baker**, 1976. Analyses of amino acids in flower nectars of hybrids and their parents, with phylogenetic implications. *New Phytologist* 76(1):87-98.

# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities (continued)

- Baldwin, Bruce G., Susan Kalisz, and W. Scott Armbruster**, 2011. Phylogenetic perspectives on diversification, biogeography, and floral evolution of *Collinsia* and *Tonella* (Plantaginaceae). *Amer. J. Bot.* 98(4):731-753.
- Baldwin, Bruce G.**, 2007. Adaptive radiation of shrubby tarweeds (*Deinandra*) in the California islands parallels diversification of the Hawaiian silversword alliance (Compositae-Madiinae). *Amer. J. Bot.* 94(2):237-248.
- Baldwin, Bruce G. and Bridget L. Wesa**, 2000. Origin and relationships of the tarweed-silversword lineage (Compositae-Madiinae). *Amer. J. Bot.* 87(12):1890-1908.
- Bartlett, Madelaine E., Bruce K. Kirchoff, Chelsea D. Specht**, 2008. Epi-illumination microscopy coupled to in situ hybridization and its utility in the study of evolution and development in non-model species. *Development, Genes & Evolution*, 7 pp.
- Bartlett, Madelaine E. and Chelsea D. Specht**, 2011. Changes in expression pattern of the TEOSINTE BRANCHED1-like gene in the Zingiberales provide a mechanism for evolutionary shifts in symmetry across the order. *Amer. J. Bot.* 98(2): 227-243.
- Beckwith, Diane D.**, 1991. Characterization of juvenility and photoperiod responses of *Rudbeckia hirta* originating from different latitudes. MS thesis in Horticulture, Virginia Polytechnic Institute and State University.
- Behnke, H.-Dietmar**, 1988. Sieve-element plastids, phloem protein, and evolution of flowering plants: III. Magnoliidae. *Taxon* 37(3):699-732.
- Behnke, H.-Dietmar**, 2000. Forms and sizes of sieve-element plastids and evolution of the Monocotyledons. Chapter in: Monocots: Systematics and Evolution (2000). Eds. K.L. Wilson and D.A. Morrison. (CSIRO: Melbourne)
- Berg, Rolf Y.**, 2003. Development of ovule, embryo sac, and endosperm in *Triteleia* (Themidaceae) relative to taxonomy. *Amer. J. Bot.* 90(6): 937-948.
- Berry, Paul E.**, 1982. The systematics and evolution of *Fuchsia* sect. *Fuchsia* (Onagraceae). *Ann. Missouri Bot. Gard.* 69:1-198.
- Berry, Paul E.**, 1985. The systematics of the apetalous fuchsias of South America, *Fuchsia* sect. *Hemsleyella* (Onagraceae). *Ann. Missouri Bot. Gard.* 72:213-251.
- Berry, Paul E.**, 1989. A systematic revision of *Fuchsia* sect. *Quelusia* (Onagraceae). *Ann. Missouri Bot. Gard.* 76:532-584.
- Berry, Paul E., William J. Hahn, Kenneth J. Sysma, Jocelyn C. Hall, and Austin Mast**, 2004. Phylogenetic relationships and biogeography of *Fuchsia* (Onagraceae) based on noncoding nuclear and chloroplast DNA data. *Amer. J. Bot.* 91(4): 601-614.
- Bharadwa, Kiran, Sahan Rajapaksa, Kim Tsao, Kristen Weiss and Johnathan Zhang**, 2003. Factors in habitat selection of the western fence lizard, *Sceloporus occidentalis*. Term paper in support of UCB undergrad course: Natural History of Vertebrates, Spring 2003.
- Bihler, Alicia, Jessica I. Cruz, Brad Gibbs, Rachel Freund**, 2005. A common garden comparison of physiological and morphological traits in four species of *Quercus*. Final Project, UCB Integrative Biology 151. Prof. Todd Dawson.
- Bohm, B.A. and R.A. Ornduff**, 1981. Leaf flavonoids and ordinal affinities of Coriariaceae. *Syst. Bot.* 6:15-26.

# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities (continued)

- Boke, Norman H.**, 1968. Structure and development of the flower and fruit of *Pereskia diaz-romeroana*, Amer. J. Bot. 55(10):1254-1260.
- Bolmgren, Kjell and Bengt Oxelman**, 2004. Generic limits in *Rhamnus* L. s.l. (Rhamnaceae) inferred from nuclear and chloroplast DNA sequence phylogenies. Taxon 53(2): 383-390.
- Bortiri, Esteban, Sang-Hun Oh, Jianguo Jiang, Scott Baggett, Andrew Granger, Clay Weeks, Megan Buckingham, Daniel Potter, Dan E. Parfitt**, 2001. Phylogeny and Systematics of *Prunus* (Rosaceae) as Determined by Sequence Analysis of ITS and the Chloroplast trnL-trnF Spacer DNA. Systematic Botany 26(4): 797-807.
- Breedlove, D.E., P.E. Berry, and P.H. Raven**, 1982. The Mexican and Central American species of *Fuchsia* (Onagraceae) except for sect. *Encliandra*. Ann. Missouri Bot. Gard. 69:209-234.
- Bruck, D.K. and D.R. Kaplan**, 1980. Heterophillic development in *Muehlenbeckia* (Polygonaceae). Amer. J. Bot. 67:337-346.
- Burge, Dylan O., Diane M. Erwin, Melissa B. Islam, Jurgen Kellermann, Steven W. Kembel, Dieter H. Wilken, and Paul S. Manos**, 2011. Diversification of *Ceanothus* (Rhamnaceae) in the California Floristic Province. Int. J. Plant Sci. 172(9): 1137-1164.
- Cabral, Meiling, Chris Colvin, Elisa Fanchiang, Nick Foster-Mann, Madhuri Sudan**, 2002. Distribution of native and introduced bird species in the UC Berkeley Botanical Garden: GIS analysis of habitat preferences. UCB Undergraduate course work.
- Cacho, N. Ival ú, Paul E. Berry, Mark E. Olson, Victor W. Steinmann, and David A. Baum**, 2010. Are spurred cyathia a key innovation? Molecular systematics and trait evolution in the slipper spurge (Pedilanthus clade: *Euphorbia*, Euphorbiaceae), Amer. J. Bot. 97(3):493-510.
- Calviño, Carolina I., Susana G. Martínez, Stephen R. Downie**, 2008. The evolution of *Eryngium* (Apiaceae, Saniculoideae): rapid radiations, long distance dispersals, and hybridizations. Molecular Phylogenetics and Evolution 46:1129-1150.
- Carlquist, Sherwin**, 1975. Wood anatomy of Onagraceae, with notes on alternative modes of photosynthate movement in Dicotyledon wood. Annals of the Missouri Botanical Garden 62(2):386-424.
- Carlquist, Sherwin and Edward L. Schneider**, 1997. SEM studies on vessels in ferns. 4. *Astrolepis*. Amer. Fern J. 87(2):43-50.
- Carlquist, Sherwin and Edward L. Schneider**, 1998. SEM studies on vessels in ferns. X. Selected Osmundaceae and Schizaeaceae. Int. J. Plant Sci. 159(5): 788-797.
- Carlquist, Sherwin and Edward L. Schneider**, 1999. SEM studies on vessels in Ferns. 12. Marattiaceae, with comments on vessel patterns in eusporangiate ferns. Amer. J. Bot. 86(4): 457-464.
- Carpenter, Kevin J.** 2005. Stomatal architecture and evolution in basal angiosperms. Amer. J. Bot. 92(10):1595-1615.
- Carpenter, Kevin J.** 2006. Specialized structures in the leaf epidermis of basal angiosperms: morphology, distribution, and homology. Amer. J. Bot. 93(5):665-681.
- Chan, Raymund, Bruce G. Baldwin, and Robert Ornduff**, 2002. Cryptic goldfields: a molecular phylogenetic reinvestigation of *Lasthenia californica* sensu lato and close relatives (Compositae: Heliantheae sensu lato). Amer. J. Bot. 89(7):1103-1112.

# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities (continued)

- Christenhusz, M.J.M., H. Tuomisto, J.S. Metzgar, and K.M. Pryer**, 2008. Evolutionary relationships within the Neotropical, eusporangiate fern genus *Danaea* (Marratiaceae). *Molecular Phylogenetics and Evolution* 46: 34-48.
- Cool, Laurence G.**, 1996. Sesquiterpene alcohols from foliage of *Fitzroya cupressoides*. *Phytochemistry* 42(4):1015-1019.
- Corsini, Eric, Victor Acosta, Nicolas Baddour, James Higbie, Brian Lester, Paul Licht, Brian Patton, Mark Prouty, and Dmitry Budker**, 2011. Search for biomagnetism with a sensitive atomic magnetometer. *J. of Applied Physics* 109, 074701-1 – 074701-5.
- Daghlian, Charles P., John J. Skvaria, David Pocknall, and Peter H. Raven**, 1985. *Fuchsia* pollen from the early Miocene of New Zealand. *Amer. J. Bot.* 72(7):1039-1047.
- Davis, Charles C., Peter W. Fritsch, Jianhua Li, and Michael Donoghue**, 2002. Phylogeny and biogeography of *Cercis* (Fabaceae): evidence from nuclear ribosomal ITS and chloroplast *ndhF* sequence data. *Syst. Bot.* 27(2): 289-302.
- Diefendorf, Aaron F., Andrew B. Leslie, Scott L. Wing**, 2015. Leaf wax composition and carbon isotopes vary among major conifer groups. *Geochimica et Cosmochimica Acta* 170:145-156.
- Dobson, Heidi E.M.**, 1988. Survey of pollen and pollenkitt lipids—chemical cues to flower visitors? *Amer. J. Bot.* 75(2):170-182.
- Dortort, Fred**, 2004. Under discussion: *Adromischus*. *Cactus and Succulent Journal* 76(1): 38-42.
- Dortort, Fred**, 2004. Under discussion: *Anacampseros*. *Cactus and Succulent Journal* 76(3): 108-113.
- Dortort, Fred**, 2005. Under discussion: *Thelocactus*. *Cactus and Succulent Journal* 77(6):
- Dosmann, Michael and Peter del Tredici**, 2003. Plant introduction, distribution, and survival: a case study of the 1980 Sino-American Botanical Expedition. *BioScience* 53(6):588-597.
- Downie, Stephen R. and Deborah S. Katz-Downie**, 1996. A molecular phylogeny of Apiaceae subfamily Apioideae: evidence from nuclear ribosomal DNA internal transcribed spacer sequences. *Amer. J. Bot.* 83(2):234-251.
- Downie, Stephen R., Seemanti Ramanath, Deborah S. Katz-Downie, and Esmeralda Llanas**, 1998. Molecular systematics of Apiaceae subfamily Apioideae: phylogenetic analyses of nuclear ribosomal DNA internal transcribed spacer and plastic *RPOC1* intron sequences. *Amer. J. Bot.* 85(4):563-591.
- Downie, Stephen R., Deborah S. Katz-Downie, and Mark F. Watson**, 2000. A phylogeny of the flowering plant family Apiaceae based on chloroplast DNA RPL16 and RPOC1 intron sequences: towards a suprageneric classification of subfamily Apioideae. *Amer. J. Bot.* 87(2):273-292.
- Doyle, James A., Michael J. Donoghue, and Elizabeth Zimmer**, 1994. Integration of morphological and ribosomal RNA data on the origin of angiosperms. *Ann. Missouri Bot. Garden.* 81:419-450.
- Drew, Bryan T. and Kenneth J. Sytsma**, 2011. Testing the Monophyly and Placement of *Lepechinia* in the Tribe Mentheae (Lamiaceae). *Syst. Bot.*(4):1038-1049

# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities (continued)

- Drew, Bryan T. and Kenneth J. Sytsma**, 2012. Phylogenetics, biogeography, and staminal evolution in the tribe Mentheae (Lamiaceae). *Amer. J. Bot.* 99(5): 933-953.
- Drew, Bryan T. and Kenneth J. Sytsma**, 2013. The South American radiation of *Lepechinia* (Lamiaceae): phylogenetics, divergence times and evolution of dioecy. *Botanical Journal of the Linnean Society* 171:171-190.
- Dunbar, Mignon and Terence M. Murphy**, 2009. DNA analysis of natural fiber rope. *J. Forensic Sci.* 54(1):108-113.
- Ellstrand, Norman C., Robert Ornduff, and Janet M. Clegg**, 1990. Genetic structure of the Australian cycad, *Macrozamia communis* (Zamiaceae). *Amer. J. Bot.* 77(5): 677-681.
- Endress, Peter K.** 1994. Shapes, sizes and evolutionary trends in stamens of Magnoliidae. *Bot. Jahrb. Syst.* 115(4):429-460.
- Ertter, Barbara**, 1989. Revisionary Studies in *Ivesia* (Rosaceae: Potentilleae). *Systematic Botany* 14(2):231-244.
- Ertter, Barbara**, 1992. A re-evaluation of *Potentilla drummondii* and *P. breweri* (Rosaceae), with the new species *Potentilla morefieldii*. *Brittonia* 44(4):429-435.
- Ertter, Barbara**, 1993. A re-evaluation of the *Horkelia bolanderi* (Rosaceae) complex, with the new species *Horkelia yadonii*. *Systematic Botany* 18(1):137-144.
- Ertter, Barbara**, 2007. New Sections, combinations, and varieties in Rosaceae, Potentilleae. *Novon* Vol. 17:315-325.
- Ertter, Barbara**, 2007. Subspecies of *Rosa nutkana* and *R. woodsii* (Rosaceae) in western North America. *Novon* 17:341-353.
- Ertter, Barbara and Walter H. Lewis**, 2008. New *Rosa* (Rosaceae) in California and Oregon. *Madrono* Vol. 55(2):170-177.
- Ertter, Barbara, Reidar Elven, David F. Murray**, 2013. Changes to *Potentilla rubricaulis* s.l., *P. hookeriana* (Rosaceae), and erstwhile synonyms in Flora of North America North of Mexico. *J. Bot. Res. Inst. Texas* 7(2): 703-711.
- Evans, Rodger C. and Timothy A. Dickinson**, 1999. Floral ontogeny and morphology in subfamily Amygdaloideae T. & G. (Rosaceae). *Int. J. Plant Sci.* 160(5):955-979.
- Evans, Rodger C. and Timothy A. Dickinson**, 1999. Floral ontogeny and morphology in subfamily Spiraeoideae Endl. (Rosaceae). *Int. J. Plant Sci.* 160(5):981-1012.
- Floyd, S.K. and W.E. Friedman**, 2001. Developmental evolution of endosperm in basal angiosperms: evidence from *Amborella* (Amborellaceae), *Nuphar* (Nymphaeaceae), and *Illicium* (Illiciaceae). *Plant Syst. Evol.* 228: 153-169.
- Foster, A.S.**, 1966. Morphology of anastomoses in the dichotomous venation of *Circaeaster*. *Amer. J. Bot.* 53:588-599.
- Foster, A.S.**, 1972. Venation patterns in the leaves of *Ephedra*. *J. Arnold Arboretum* 53:364-378.
- Freeman, C. Edward, J. Scott Harrison, John P. Janovec, and Ron Scogin**, 2003. Inferred phylogeny in *Keckiella* (Scrophulariaceae) based on noncoding chloroplast and nuclear ribosomal DNA sequences. *Systematic Botany* 28(4):782-790.
- Friedman, William E., William N. Gallup, and Joseph H. Williams**, 2003. Female gametophyte development in *Kadsura*: Implications for Schisandraceae, Austrobaileyales, and the early evolution of flowering plants. *Int. J. Plant Sci.* 164(5 Suppl.): S293-S305.

# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities (continued)

- Goodspeed, T.H.**, 1933. The University of California Botanical Garden expedition to western China and Tibet. *Science* 78(2016):144.
- Guillon, Jean-Michel**, 2004. Phylogeny of horsetails (*Equisetum*) based on the chloroplast *rsp4* gene and adjacent noncoding sequences. *Systematic Botany* 29(2): 251-259.
- Hacke, U.G., J.S. Sperry, T.S. Field, Y. Sano, E.H. Sikkema, and J. Pitterman**, 2007. Water transport in vesselless angiosperms: conducting efficiency and cavitation safety. *Int. J. Plant Sci.* 168(18):1113-1126.
- Harbaugh, Danica T. and Bruce G. Baldwin**, 2007. Phylogeny and biogeography of the sandalwoods (*Santalum*, Santalaceae): repeated dispersals throughout the Pacific. *Amer. J. Bot.* 94(6):1028-1040.
- Hardig, Terry M., Pamela S. Soltis, and Douglas E. Soltis**, 2000. Diversification of the North American shrub genus *Ceanothus* (Rhamnaceae): Conflicting phylogenies from nuclear ribosomal DNA and chloroplast DNA. *Amer. J. Botany* 87(1):108-123.
- Harding, T.M., P.S. Soltis, D.E. Soltis, and R.B. Hudson**, 2002. Morphological and molecular analysis of putative hybrid speciation in *Ceanothus* (Rhamnaceae). *Systematic Botany* 27(4):734-746.
- Hart, Jeffrey**, 1987. A cladistics analysis of conifers: preliminary results. *Journal of the Arnold Arboretum*.
- Hinkle, Anya Eleanor**, 2002. The Cordylines of New Zealand: a phylogenetic study. Written to satisfy course requirements of the Department of Integrative Biology, UC Berkeley.
- Hirsch, A.N. and D.R. Kaplan**, 1974. Organography, branching, and the problem of leaf versus bud differentiation in the vining epiphytic fern genus *Microgramma*. *Amer. J. Bot.* 61:217-229.
- Hoelscher, Dirk J., David C. Williams, Mark R. Wildung, Rodney Croteau**, 2003. A cDNA clone for 3-carene synthase from *Salvia stenophylla*. *Phytochemistry* 62:1081-1086.
- Horich, Clarence K.**, 1962. Collecting *Marattia excavata* in Costa Rica. *Amer. Fern Journal* 52(3):130-131.
- Horn, James W., Jack B. Fisher, P. Barry Tomlinson, Carl E. Lewis, and Karen Laubengayer**, 2009. Evolution of lamina anatomy in the palm family (Arecaceae). *Amer. J. Bot.* 96(8):1462-1486.
- Hoshino, T. and P.E. Berry**, 1988. Observations on polyploidy in *Fuchsia* sects. *Quelusia* and *Kierschlegeria* (Onagraceae). *Ann. Missouri Bot. Gard.* 76:585-592.
- Huberli, D., B. Lutzy, B. Voss, M. Calver, M. Ormsby and M. Garbelotto**, 2008. Susceptibility of New Zealand flora to *Phytophthora ramorum* and pathogen sporulation potential: an approach based on the precautionary principle. *Australasian Plant Pathology* 37: 615–625.
- Hutchison, Paul C.**, 1967. Typification of *Solanum nitidum* var. *hutchisonii* Macbride. *Taxon* 16(3):236-237.
- Ivalú Cacho, N., Paul E. Berry, Mark E. Olson, Victor W. Steinmann, and David A. Baum**, 2010. Are spurred cyathia a key innovation? Molecular systematics and trait evolution in the slipper spurge (Pedilanthus Clade: *Euphorbia*, Euphorbiaceae). *Amer. J. Bot.* 97(3):493–510.

# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities (continued)

- Jansen, Robert K. and Jeffrey D. Palmer**, 1987. A chloroplast DNA inversion marks an ancient evolutionary split in the sunflower family (Asteraceae). *Proc. Natl. Acad. Sci. USA* Vol. 84: 5818-5822.
- Jansen, Robert K. and Jeffrey D. Palmer**, 1988. Phylogenetic implications of chloroplast DNA restriction site variation in the Mutisieae (Asteraceae). *Amer. J. Bot.* 75(5): 753-766.
- Jansen, Robert K., Helen J. Michaels, and Jeffrey D. Palmer**, 1991. Phylogeny and Character Evolution in the Asteraceae based on chloroplast DNA restriction site mapping. *Systematic Botany* 16(1):98-115.
- Johnson, Leigh A., Douglas E. Soltis, and Pamela S. Soltis**, 1999. Phylogenetic relationships of Polemoniaceae inferred from 18S ribosomal DNA sequences. *Pl. Syst. Evol.* 214:65-89.
- Johnston, Barry C. and Barbara Ertter**, 2010. *Potentilla uliginosa* (Rosaceae: Rosoideae), a new presumed extinct species from Sonoma County, California. *J. Bot. Res. Inst. Texas* Vol. 4(1):13-18.
- Kaplan, D.R.**, 1980. Comparative development and morphological interpolation of "rachis-leaves" in Umbelliferae in N.K.B. Robson, D.F. Cutler and M. Gregory (eds.), *New Research in Plant Anatomy*, Academic Press, London.
- Kaplinsky, Nicholas J, David M. Braun, Jon Penterman, Stephen A. Goff, and Michael Freeling**, 2002. Utility and distribution of conserved noncoding sequences in the grasses. *Proceedings of the National Academy of Sciences of the United States of America* 99(9): 6147-6151
- Kim, Sangtae, Chong-Wook Park, Young-Dong Kim, and Youngbae Suh**, 2001. Phylogenetic relationships in family Magnoliaceae inferred from NDHF sequences. *Amer. J. Bot.* 88(4):717-728.
- Kimnach, Myron**, 1979. Two new Disocacti from Costa Rica. *Cactus and Succulent Journal (U.S.)* 51:166-171.
- Kimnach, Myron**, 1981. *Nopalxochia ackermannii*. *Cactus and Succulent Journal (U.S.)* 53:81-87.
- Kimnach, Myron**, 1981. *Weberocereus biolleyi* (Web.) Britt. & Rose. *Cactus and Succulent Journal (U.S.)* 53:113-115.
- Kimnach, Myron**, 1981. *Werckleocereus glaber*. *Cactus and Succulent Journal (U.S.)* 53:224-226.
- Kimnach, Myron**, 1983. *Wilmattea minutiflora*. *Cactus and Succulent Journal (U.S.)* 55:61-65.
- Kimnach, Myron**, 1983. A revision of *Acanthorhopsalis*. *Cactus and Succulent Journal (U.S.)* 55:177-182.
- Kimnach, Myron**, 1984. *Rhopsalis brevispina*. *Cactus and Succulent Journal (U.S.)* 56:122-124.
- Kimnach, Myron**, 1984. *Hylocereus escuintlensis*, a new species from Guatemala. *Cactus and Succulent Journal (U.S.)* 56:177-180.
- Kimnach, Myron**, 1984. *Rhopsalis paranganiensis*. *Cactus and Succulent Journal (U.S.)* 56:210-211.
- Kimnach, Myron**, 1987. *Harrisia hahniana*. *Cactus and Succulent Journal (U.S.)* 59:59-62.
- Kirchoff, Bruce K., Laura P. Lagomarsino, Winnell H. Newman, Madelaine E. Bartlett, and Chelsea D. Specht**, 2009. Early floral development of *Heliconia latispatha*



# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities (continued)

- (Heliconiaceae), a key taxon for understanding the evolution of flower development in the Zingiberales. *Amer. J. Bot.* 96(3):580-593.
- Kirkpatrick, Ruth**, 2001. A phylogenetic analysis of cheilanthoid fern characteristics thought to be adaptive to xeric environments. Principles of Phylogenetics term project, UCB.
- Kirkpatrick, Ruth**, 2008. Phylogenetic analysis and desiccation tolerance of the homosporous fern genus *Pellaea* Link (Pteridaceae) and relatives." Dissertation filed at UCB.
- Kleist, Annabelle, Angelica M. Herrera-Reddy, René Sforza, and Marie Jasieniuk**, 2013. Inferring the complex origins of horticultural invasives: French broom in California. *Biol. Invasions*, DOI 10.1007/s10530-013-0564-4.
- Knox, Eric B., A. Muthama Muasya, and Nathan Muchhala**, 2008. The predominantly South American clade of Lobeliaceae. *Systematic Botany* 33(2):462-468.
- Koontz, Jason A., Pamela S. Soltis, and Steven J. Brunfeld**, 2001. Genetic diversity and tests of the hybrid origin of the endangered yellow larkspur. *Conservation Biology* 15(6):1608-1618.
- Koontz, Jason A., Pamela S. Soltis, and Douglas E. Soltis**, 2004. Using phylogeny reconstruction to test hypotheses of hybrid origin in *Delphinium* Section *Diedropetala* (Ranunculaceae). *Systematic Botany* 29(2):345-357.
- Koptur, Suzanne, Alan R. Smith, and Irene Baker**, 1982. Nectaries in some neotropical species of *Polypodium* (Polypodiaceae): preliminary observations and analyses. *Biotropica* 14(2):108-113.
- Kuzoff, Robert K., Douglas E. Soltis, Larry Hufford, and Pamela S. Soltis**, 1999. Phylogenetic relationships within *Lithophragma* (Saxifragaceae): hybridization, allopolyploidy, and ovary diversification. *Systematic Botany* 24(4):598-615.
- Lee, Byoung-Yoon and Stephen R. Downie**, 1999. A molecular phylogeny of Apiaceae Tribe Caulalideae and related taxa: inferences based on ITS sequence data. *Systematic Botany* 24(3):461-479.
- Lee, Joongku, Bruce G. Baldwin, and L.D. Gottlieb**, 2002. Phylogeny of *Stephanomeria* and related genera (Compositae–Lactuceae) based on analysis of 18S–26S nuclear rDNA ITS and ETS sequences. *Amer. J. Botany* 89(1) 160-68. Accepted for publication July 5, 2001.
- Levin, Rachel A., Warren L. Wagner, Peter C. Hoch, Molly Nepokroeff, J. Chris Pires, Elizabeth A. Zimmer, and Kenneth J. Sytsma**, 2003. Family-level relationships of Onagraceae based on chloroplast RBCL and NDHF data. *Amer. J. Botany* 90(1):107-115.
- Levy, J.M. and E.F. Connor**. 2004. Are gardens effective in butterfly conservation? A case study with the pipevine swallowtail, *Battus philenor*. *Journal of Insect Conservation* 8: 323-330.
- Lewis, Walter H. and Barbara Ertter**, 2010. *Rosa woodsii* subsp. *puberulenta* and variety *ertterae* (Rosaceae), new in western North America. *Novon* 20:47-52.
- Lisch, Damon R., Michael Freeling, Richard J. Langham, and Ming Y. Choy**, 2001. Mutator Transposase Is Widespread in the Grasses. *Plant Physiology* 125: 1293-1303.
- Liu, Zhipeng, Zhongyue Chen, Jin Pan, Xiaofeng Le, Man Su, Lijuan Wang, Hongjie Li, Gongshe Liu**, 2008. Phylogentic relationships in *Leymus* (Poaceae: Triticeae) revealed by the nuclear ribosomal internal transcribed spacer and chloroplast trnL-F sequences. *Molecular Phylogenetics and Evolution* 46:278-289.

# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities (continued)

- Lloyd, Robert M.**, 1973. Facultative apomixis and polyploidy in *Matteuccia orientalis*. *Amer. Fern Journal* 63(2):43-48.
- Lo, Eugenia Y.Y., Sasa Stefanovic, and Timothy A. Dickinson**, 2007. Molecular reappraisal of relationships between *Crataegus* and *Mespilus* (Rosaceae, Pyreae)--two genera or one? *Systematic Botany* 32(3): 596-616.
- McAbee, Jessica Messmer, Robert K. Kuzoff, and Charles S. Gasser**, 2005. Mechanisms of derived unitemy among *Impatiens* species. *The Plant Cell* 17:1674-1684.
- Magallon, Susana, Patrick S. Herendeen, and Peter R. Crane**, 2001. *Androdecidua endressii* gen. et sp. nov., from the late Cretaceous of Georgia (United States): Further floral diversity in Hamamelidoideae (Hamamelidaceae). *Int. J. Plant Sci.* 162(4):963-983.
- Magallon, Susana and Michael J. Sanderson**, 2002. Relationships among seed plants inferred from highly conserved genes: Sorting conflicting phylogenetic signals among ancient lineages. *Amer. J. Botany* 89(12):1991-2006.
- Manos, Paul S.**, 1997. Systematics of *Nothofagus* (Nothofagaceae) based on rDNA spacer sequences (ITS): Taxonomic congruence with morphology and plastid sequences. *Amer. J. Botany* 84(8):1137-1155.
- Markos, Staci and Bruce G. Baldwin**, 2002. Structure, molecular evolution, and phylogenetic utility of the 5' region of the external transcribed spacer of 18S-26S rDNA in *Lessingia* (Compositae, Astereae). *Molecular Phylogenetics and Evolution* 23 (2002): 214-228.
- Mayer, Michael S. and Pamela S. Soltis**, 1999. Intraspecific phylogeny analysis using ITS sequences: insights from studies of the *Streptanthus glandulosus* complex (Cruciferae). *Systematic Botany* 24(1):47-61
- Mayer, Michael S., Pamela S. Soltis and Douglas E. Soltis**, 1994. The evolution of the *Streptanthus glandulosus* complex (Cruciferae): genetic divergence and gene flow in serpentine endemics. *Amer. J. Bot.* 81(10):1288-1299.
- Medina J.R., S.C. Lahmeyer SC, and C.F. Barrett**, 2015. A preliminary investigation of phylogeny and plastid genome evolution in the palm genus *Brahea* (Mart. ex Endl.). Botany 2015 conference, Edmonton, Alberta, Canada.
- Meerow, Alan W.**, 1985. A new species of *Eucrosia* and a new name in *Stenomesson* (Amaryllidaceae). *Brittonia* 37(3):305-309.
- Mione, Thomas, Richard C. Olmstead, Robert K. Jansen, and Gregory J. Anderson**, 1994. Systematic implications of chloroplast DNA variation in *Jaltomata* and selected physaloid genera (Solanaceae). *Amer. J. Bot.* 81(7): 912-918.
- Mooney, Kailen A., Rayko Halitschke, Andre Kessler and Anurag A. Agrawal**, 2010. Evolutionary trade-offs in plants mediate the strength of trophic cascades. *Science* 327:1642-1644.
- Morgan, David R., Douglas E. Soltis, and Kenneth R. Robertson**, 1994. Systematic and evolutionary implications of rbcL sequence variation in Rosaceae. *Amer. J. Bot.* 81(7):890-903.
- Mort, Mark E., Douglas E. Soltis, Pamela S. Soltis, Javier Francisco-Ortega, and Arnoldo Santos-Guerra**, 2001. Phylogenetic relationships and evolution of Crassulaceae inferred from MATK sequence data. *Amer. J. Bot.* 88(1):76-91

# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities (continued)

- Murdock, Andrew G.**, 2008. Phylogeny of Marattioid ferns (Marattiaceae): inferring a root in the absence of a closely related outgroup. *Amer. J. Bot.* 95(5):626-641.
- Nguyen, Nhu, Heather E. Driscoll, Chelsea Specht**, 2008. A molecular phylogeny of the wild onions (*Allium*; Alliaceae): with a focus on the western North American center of diversity. *Molecular Phylogenetics and Evolution* (in press).
- Nowicke, J.W., J.J. Skvarla, P.H. Raven, and P.E. Berry**, 1984. A palynological study of the genus *Fuchsia* (Onagraceae). *Ann. Missouri Bot. Gard.* 71:35-91.
- Ocampo, Gilberto and J. Travis Columbus**, 2010. Molecular phylogenetics of suborder Cactineae (Caryophyllales), including insights into photosynthetic diversification and historical biogeography. *Amer. J. Bot.* 97(11):1827-1847.
- Ogburn, R. Matthew and Erika J. Edwards**, 2009. Anatomical variation in Cactaceae and relatives: trait lability and evolutionary innovation. *Amer. J. Bot.* 96(2):391-408.
- Oh, Sang-Hun and Daniel Potter**, 2003. Phylogenetic utility of the second intron of *LEAFY* in *Neillia* and *Stephanandra* (Rosaceae) and implications for the origin of *Stephanandra*. *Molecular Phylogenetics and Evolution* 29: 203-215.
- Oh, Sang-Hun and Daniel Potter**, 2005. Molecular phylogenetic systematics and biogeography of Tribe Neillieae (Rosaceae) using DNA sequences of CPDNa, RDNA, and LEAFY. *Amer. J. Botany* 92(1):179-192.
- Olmstead, Richard G., Claude W. DePamphilis, Andrea D. Wolfe, Nelson D. Young, Wayne J. Elisons, and Patrick A. Reeves**, 2001. Disintegration of the Scrophulariaceae. *American Journal of Botany* 88(2):348-361.
- Olmstead, Richard G. and Jeffrey D. Palmer**, 1992. A chloroplast DNA phylogeny of the Solanaceae: subfamilial relationships and character evolution. *Ann. Missouri Bot. Gard.* 79:346-360.
- Olmstead, Richard G., Michelle L. Zjhra, Lucia G. Losmann, Susan O. Grose, and Andrew J. Eckert**, 2009. A molecular phylogeny and classification of Bignoniaceae. *Amer. J. Bot.* 96(9):1731-1743.
- Olsen, Sue**, 2000. Best of the West: excerpts from a lecture for the BPS at Coventry, July 1999. *Pteridologist* 3.5.
- Ornduff, Robert**, 1979. Chromosome numbers in *Cyanella* (Tecophilaeaceae). *Ann. Missouri Bot. Gard.* 66(3):581-583.
- Ornduff, Robert**, 1990. Geographic variation in reproductive behavior and size structure of the Australian cycad *Macrozamia communis* (Zamiaceae). *Amer. J. Bot.* 77(1):92-99.
- Ornduff, Robert**, 1996. Gender performance in a cultivated cohort of the cycad *Zamia integrifolia* (Zamiaceae). *American Journal of Botany* 83(8):1006-1015.
- Ornduff, R., and P.H. Raven, D.W. Kyhos, A.R. Kruckeberg**, 1963. Chromosome numbers in Compositae. III. Senecioneae. *Amer. J. Bot.* 50:131-139.
- Ornduff, R., and T. Mosquin, D.W. Kyhos, P.H. Raven**, 1967. Chromosome numbers in Compositae. VI. Senecioneae II. *Amer. J. Bot.* 54:205-213.
- Ortega-Olivencia, Ana and Pilar Catalán**, 2009. Systematics and evolutionary history of the circum-Mediterranean genus *Anagyris* L. (Fabaceae) based on morphological and molecular data. *Taxon* 58(4):1290-1306.

# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities (continued)

- Oyama, Ryan K. and David A. Baum**, 2004. Phylogenetic relationships of North American *Antirrhinum* (Veronicaceae). *Amer. J. Botany* 91(6):918-925.
- Patel, V., J.J. Skvarla, and P.H. Raven**, 1984. Pollen characters in relation to the delimitation of Myrtales. *Ann. Missouri Bot. Gard.* 71:858-969.
- Pellicer, J., L.J. Kelly, I.J. Leitch, W.B. Zomlefer, & M.F. Fay**. 2013. A universe of dwarfs and giants: Genome size and chromosome evolution in the monocot family Melanthiaceae. *New Phytologist*. 14 pp.
- Pires, J. Chris and Kenneth J. Sytsma**, 2002. A phylogenetic evaluation of a biosystematic framework: *Brodiaea* and related petaloid monocots (Themidaceae). *Amer. J. Bot.* 89(8): 1342-1359.
- Pitterman, Jarmila, B. Choat, S. Jansen, S.A. Stuart, L. Lynn, and T. Dawson**, 2010. The relationships between xylem safety and hydraulic efficiency in the Cupressaceae: the evolution of pit membrane form and function. *Plant Physiol.* Vol. 153: 1-13.
- Pitterman, Jarmila, Emily Limm, Christopher Rico and Mairgareth A. Christman**, 2011. Structure-function constraints of tracheid-based xylem: a comparison of conifers and ferns. *New Phytologist* 192:449-461.
- Pitterman, Jarmila, Stephanie A. Stuart, Todd E. Dawson, and Astrid Moreau**, 2012. Cenozoic climate change shaped the evolutionary ecophysiology of the Cupressaceae conifers. *Proceedings of the National Academy of Sciences* 109(24):9647-9652.
- Plunkett, Gregory M., Douglas E. Soltis, and Pamela S. Soltis**, 1997. Clarification of the relationship between Apiaceae and Araliaceae based on *matK* and *Rbcl* sequence data. *Amer. J. Bot.* 84(4):565-580.
- Plunkett, Gregory M., Douglas E. Soltis, and Pamela S. Soltis**, 1996. Higher level relationships of Apiales (Apiaceae and Araliaceae) based on phylogenetic analysis of *Rbcl* sequences. *Amer. J. Bot.* 83(4):499-515.
- Plunkett, Gregory M., Douglas E. Soltis, and Pamela S. Soltis**, 1996. Evolutionary patterns in Apiaceae: inferences based on *matK* sequence data. *Systematic Botany* 21(4):477-495.
- Plunkett, Gregory M. and Stephen R. Downie**, 1999. Major lineages within Apiaceae subfamily Apioideae: a comparison of chloroplast restriction site and DNA sequence data. *Amer. J. Bot.* 86(7):1014-1026.
- Pourmand, Annahita**, 2007. Differential territory size in male versus female Western Fence Lizard (*Sceloporus occidentalis*). *UCB Integrative Biology* 151, Section 1.
- Pryer, Kathleen, Harald Schneider, Alan R. Smith, Raymond Cranfill, Paul G. Wolf, Jeffrey S. Hunt and Sedonia D. Sipes**, 2001. Horsetails and ferns are a monophyletic group and the closest living relatives to seed plants. *Nature* 409:618-621.
- Pryer, Kathleen M., Eric Schuettpelz, Paul G. Wolf, Harald Schneider, Alan R. Smith, and Raymond Cranfill**, 2004. Phylogeny and evolution of ferns (Monilophytes) with a focus on the early leptosporangiate divergences. *Amer. J. Botany* 91(10):1582-1598.
- Roddy, Adam B., C. Matt Guilliams, Terapan Lilittham, Jessica Farmer, Vanessa Wormser, Trang Pham, Paul V.A. Fine, Taylor S. Feild and Todd E. Dawson**, 2013. Uncorrelated evolution of leaf and petal venation patterns across the angiosperm phylogeny. *J. of Experimental Botany* 64(13):4081-4088.

# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities (continued)

- Roddy, Adam B., Craig R. Brodersen and Todd E. Dawson**, 2016. Hydraulic conductance and the maintenance of water balance in flowers. *Plant, Cell and Environment* (2016): doi: 10.1111/pce.12761.
- Roy-Burman, Paula**, 2000. Interspecies interaction and spatial habitat partitioning in Anna's and Allen's Hummingbirds (*Calypte anna* and *Selasphorus sasin*) at the UC Botanical Garden. *UCB Integrative Biology* 104.
- Rydin, Catarina, Mari Kallersjo, and Else Marie Friis**, 2002. Seed plant relationships and the systematic position of Gnetales based on nuclear and chloroplast DNA: Conflicting data, rooting problems, and the monophyly of conifers. *Int. J. Plant Sci.* 163(2):197-214.
- Rydin, Catarina and Mari Kallersjo**, 2002. Taxon sampling and seed plant phylogeny. *Cladistics* 18:485-513.
- Rydin, Catarina, Kaj Raunsgaard Pedersen, and Else Marie Friis**, 2004. On the evolutionary history of *Ephedra*: Cretaceous fossils and extant molecules. *Proceedings of the National Academy of Sciences of the USA* Vol. 101 (47):16571-16576.
- Salzman, Shayla, Heather E. Driscoll, Tanya Renner, Thiago André, Stacy Shen, and Chelsea D. Specht**, 2015. Spiraling into history: a molecular phylogeny and investigation of biogeographic origins and floral evolution for the genus *Costus*. *Syst. Bot.* 40(1):104-115.
- Santiago-Blay, Jorge**, 1988. Phenology and host plant feeding preferences of *Monoxia* n. sp. (Coleoptera: Chrysomelidae: Galerucinae). Talk presented in Proceedings XVIII International Congress of Entomology, Vancouver B.C., Canada, 1988.
- Sass, Chodon, Damon P. Little, Dennis Wm. Stevenson, Chelsea D. Specht**, 2007. DNA barcoding in the Cycadales: testing the potential of proposed barcoding markers for species identification of cycads. *PLOS ONE* 2(11): e1154. doi:10.1371/journal.pone.0001154.
- Schneider, E.L., S. Carlquist, J.G. Chemnick**, 2007. Scanning electron microscope studies of cycad tracheids. *South African Journal of Botany* (4):512-517.
- Schneider, Harald, Alan R. Smith, Raymond Cranfill, Terri J. Hildebrand, Christopher H. Haufler, and Tom A. Ranker**, 2004. Unraveling the phylogeny of polygrammoid ferns (Polypodiaceae and Grammitidaceae): exploring aspects of the diversification of epiphytic plants. *Molecular Phylogenetics and Evolution* 31: 1041-1063.
- Schneider, H., A. Smith, R. Cranfill, C.H. Haufler, T.A. Rander, and T. Hildebrand**, 2002. *Gymnogrammitis dareiformis* is a polygrammoid fern (Polypodiaceae) - Resolving an apparent conflict between morphological and molecular data. *Plant. Syst. Evol.* 234: 121-136.
- Schulz, A., M.C. Alosi, D.D. Sabris, R.B. Park**, 1989. A phloem-specific, lectine-like proteins is located in pine sieve-element plastids by immunocytochemistry. *Planta (Germany, F.R.)* 179(4):506-515.
- Sessa, Emily B., Elizabeth A. Zimmer, Thomas J. Givnish**, 2012. Phylogeny, divergence times, and historical biogeography of New World *Dryopteris* (Dryopteridaceae). *Amer. J. Botany* 99(4):730-750.

# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities (continued)

- Simonin, Kevin A., Emily B. Limm, and Todd E. Dawson**, 2012. Hydraulic conductance of leaves correlates with leaf lifespan: implications for lifetime carbon gain. *New Phytologist* 193:939-947.
- Skvarla, J.J., P.H. Raven, W.F. Chissoe, and M. Sharp**, 1978. An ultrastructural study of viscin threads in Onagraceae pollen. *Pollen et Spores* 20:5-143.
- Skvarla, J.J., P.H. Raven, and J. Pragowski**, 1976. Ultrastructural survey of Onagraceae pollen. In Ferguson, I.K. and J. Muller (eds.), *The Evolutionary Significance of the Exine*. Linnaean Society Symposium Series 1:447-479.
- Smith, Alan**, 2002. Horsetails and whisk ferns re-examined: when a "fern ally" is really a fern. *Hardy Fern Foundation Quarterly*, Winter 2002.
- Smith, Alan and Raymond B. Cranfill**, 2002. Intrafamilial Relationships of the Thelypteroid Ferns (Thelypteridaceae). *American Fern Journal* 92(2): 131-149
- Smith, Alan, Hans-Peter Kreier, Christopher H. Haufler, Tom A. Ranker & Harald Schneider**, 2006. *Serpocaulon* (Polypodiaceae), a new genus segregated from *Polypodium*. *Taxon* 55(4):919-930.
- Smith, Alan, Kathleen M. Pryer, Eric Schuettpelz, Petra Korall, Harald Schneider & Paul G. Wolf**, 2006. A classification for extant ferns. *Taxon* 55(3):705-731.
- Soderstrom, Thomas R.**, 1962. The isocitric acid content of Crassulacean plants and a few succulent species from other families. *Amer. J. Bot.* 49(2):850-855.
- Soltis, Douglas E. and Larry Hufford**, 2002. Ovary position diversity in Saxifragaceae: clarifying the homology of epigyny. *Int. J. Plant Sci.* 163(2):277-293.
- Soltis, Douglas E., Pamela S. Soltis, Daniel L. Nickrent, Leigh A. Johnson, William J. Hahn, Sara B. Hoot, Jennifer A. Sweere, Robert K. Kuzoff, Kathleen A. Kron, Mark W. Chase, Susan M. Swenson, Elizabeth A. Zimmer, Shu-Miaw Chaw, Lynn J. Gillespie, W. John Kress, and Kenneth J. Sytsma**, 1997. Angiosperm phylogeny inferred from 18S ribosomal DNA sequences. *Ann. Missouri Bot. Gard.* 84:1-49.
- Soltis, Douglas E.**, 1984. Karyotypic relationships among *Elmera*, *Heuchera*, and *Tellima* (Saxifragaceae). *Systematic Botany* 9(1):6-11.
- Soza, Valerie L., Johanne Brunet, Aaron Liston, Patricia Salles Smith, Veronica S. Di Stilio**, 2012. Phylogenetic insights into the correlates of dioecy in meadow-rues (*Thalictrum*, Ranunculaceae). *Molecular Phylogenetics and Evolution* 63:180-192.
- Soza, Valerie L., Kendall L. Haworth, and Verónica S. Di Stilio**, 2013. Timing and consequences of recurrent polyploidy in meadow-rues (*Thalictrum*, Ranunculaceae). *Mol. Biol. Evol.* 30(8):1940–1954
- Stafford, H.A.**, 1959. Distribution of tartaric acid in the leaves of certain angiosperms. *Amer. J. Bot.* 46:347-352.
- Strother, John L.**, 1976. Chromosome studies in Compositae. *Amer. J. Bot.* 63(2):247-250.
- Svensson, Maria**, 2003. The Western Fence Lizard: a population estimate in the University of California Botanical Garden. *UCB Integrative Biology* 104.
- Sytsma, Kenneth J., Jeffrey Morawetz, J. Chris Pires, Molly Nepokroeff, Elena Conti, Michelle Zjhra, Jocelyn C. Hall and Mark W. Chase**, 2002. Urticalean rosids:

# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities (continued)

- circumscription, rosid ancestry, and phylogenetics based on *rbcL*, *trnL-F*, and *ndhF* sequences. *Amer. J. Botany* 89:1531-1546.
- Sytsma, Kenneth J. and James F. Smith**, 1988. DNA and morphology: comparisons in the Onagraceae. *Ann. Missouri Bot. Gard.* 75:1217-1237.
- Suh, Youngae, Leonard B. Thien, Helena E. Reeve, and Elizabeth Zimmer**, 1993. Molecular evolution and phylogenetic implications of internal transcribed spacer sequences of ribosomal DNA in Winteraceae. *Amer. J. Botany* 80(9):1042-1055.
- Thanos, Costas A., Kyriacos Georghiou, Costas Kadis, and Christina Pantazi**, 1992. Cistaceae: A plant family with hard seeds. *Israel Journal of Botany* 41:251-263.
- Théroux-Rancourt, G., J.M. Earles, M.E. Gilbert, M.A. Zwieniecki, C.K. Boyce, A.J. McElrone, and C.R. Brodersen**, 2017. The bias of a two-dimensional view: comparing two-dimensional and three-dimensional mesophyll surface area estimates using noninvasive imaging. *New Phytol.* doi:10.1111/nph.14687
- Tippery, Nicholas P. and Donald H. Les**, 2009. A new genus and new combinations in Australian *Villarsia* (Menyanthaceae). *Novon* 19(3):404-411.
- Tobe, H. and P.H. Raven**, 1985. The histogenesis and evolution of integuments in Onagraceae. *Ann. Missouri Bot. Gard.* 72:451-468.
- Vettraino, A.M., D. Huberli, M. Garbelotto**, 2008. *Phytophthora ramorum* infection in coast live oak leaves in Californian forests and its capacity to sporulate *in vitro*. *Australasian Plant Pathology* 37:72-73.
- Wagstaff, Steven J., Richard G. Olmstead, and Philip D. Cantino**, 1995. Parsimony analysis of cpDNA restriction site variation in subfamily Nepetoideae (Labiatae). *Amer. J. Bot.* 82(7):886-892.
- Walden, Genevieve K., Laura M. Garrison, Greg S. Spicer, Frank W. Cipriano, and Robert Patterson**, 2014. Phylogenies and chromosome evolution of *Phacelia* (Boraginaceae: Hydrophyloideae) inferred from nuclear ribosomal and chloroplast sequence data. *Madroño* 61(1):16-47.
- Walker, Jay, B., Bryan T. Drew, and Kenneth Sytsma**, 2015. Unravelling species relationships and diversification within the iconic California Floristic Province sages (*Salvia* Subgenus *Audibertia*, Lamiaceae). *Systematic Botany* 40(3):826-844.
- Wang, Yuguo, Peter W. Fritsch, Suhua Shi, Frank Almeda, Boni C. Cruz, and Lawrence M. Kelly**, 2004. Phylogeny and infrageneric classification of *Symplocos* (Symplocaceae) inferred from DNA sequence data. *Amer. J. Bot.* 91(11):1901-1914.
- Weiss, Martha**, 1995. Floral color change: a widespread functional convergence. *Amer. J. Bot.* 82(2):167-185.
- Wheeler, Erica J. Saeideh Mashayekhi, Dale W. McNeal, J. Travis Columbus and J. Chris Pires**, 2013. Molecular systematics of *Allium* Subgenus *Amerallium* (Amaryllidaceae) in North America. *Amer. J. Bot.* 100(4):701-711.
- Williams Joseph H; Friedman William E.**, 2002. Identification of diploid endosperm in an early angiosperm lineage. *Nature* 415(6871): 522-526

# University of California Botanical Garden at Berkeley

## Publications acknowledging support of the collections and/or facilities (continued)

- Williams, Joseph H. and William E. Friedman**, 2004. The four-celled female gametophyte of *Illicium* (Illiciaceae; Austrobaileyales): Implications for understanding the origin and early evolution of monocots, eumagnoliids, and eudicots. *Amer. J. Botany* 91(3):332-351.
- Wilson, Carol A.** 1998. A cladistic analysis of *Iris* Series *Californicae* based on morphological data. *Systematic Botany* 23(1):73-88
- Wilson, Carol A.** 2003. Phylogenetic relationships in *Iris* Series *Californicae* based in ITS sequences of nuclear ribosomal DNA. *Systematic Botany* 28(1):39-46
- Wilson, Carol A.** 2004. Phylogeny of *Iris* based on chloroplast *matK* gene and *trnK* intron sequence data. *Molecular Phylogenetics and Evolution* 33:402-412.
- Windham, Michael D., Paul G. Wolf, and Thomas A. Ranker**, 1986. Factors affecting prolonged spore viability in herbarium collections of three species of *Pellaea*. *Amer. Fern Journal* 76(3):141-148.
- Wojciechowski, Martin F., Matt Lavin, and Michael J. Sanderson**, 2004. A phylogeny of legumes (Leguminosae) based on analysis of the plastid *MATK* gene resolves many well-supported subclades within the family. *Amer. J. Botany* 91(11):1846-1862.
- Wolf, Paul G., Sedonia D. Sipes, Martha R. White, Michael L. Martines, Kathleen M. Pryer, Alan R. Smith, and Kunihiro Ueda**, 1999. Phylogenetic relationships of the enigmatic fern families Hymenophyllopsidaceae and Lophosoriaceae: evidence from *rbcL* nucleotide sequences. *Plant Syst. Evol.* 219:263-270.
- Yuncker, T.G.**, 1961. New taxa of Peruvian Piperaceae. *Brittonia* 13(1):58-63.
- Zomlefer, Wendy B., Norris H. Williams, W. Mark Whitten, and Walter S. Judd**, 2001. Generic circumscription and relationships in the Tribe Melianthieae (Liliales, Melianthaceae), with emphasis on *Zigadenus*: Evidence from ITS and TRNL-F sequence data. *Amer. J. Botany* 88(9):1657-1669.