

THOMAS F. DANIEL

I. Personal Information

Born: 12 February 1954, Durham, North Carolina
Marital Status: married to Mary L. Butterwick
Citizenship: United States
Present Address: Department of Botany, California Academy of Sciences, 55 Music
Concourse Drive, Golden Gate Park, San Francisco, CA 94118 U.S.A.;
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II. Education

A. Institutions Attended:

Chapel Hill Senior High School, Chapel Hill, NC, Diploma 1972 (Sep 1969 to Jun 1970,
Sep 1971 to Jun 1972)
Phillips Academy, Andover, MA (Sep 1970 to Jun 1971)
Duke University, Durham, NC, A.B. Botany/French 1975 (Sep 1972 to Dec 1975)
University of Arizona, Tucson, Arizona (summer school, Jun to Aug 1974)
University of North Carolina, Chapel Hill, NC (summer school, Jun to Aug 1976)
University of Michigan, Ann Arbor, MI, Ph.D. in Botany 1980 (Sep 1976 to Dec 1980)

B. Academic Honors

Duke University: Phi Eta Sigma, Phi Beta Kappa, Summa Cum Laude, Class Honors (3),
Dean's List (6), Graduation with Distinction
University of Michigan: National Science Foundation Graduate Fellowship (honorable
mention), Emma J. Cole Fellowship

III. Professional Employment

- A. Research Assistant for Dr. D.E. Stone, Dept. of Botany, Duke University (pollen and wood anatomy of the Juglandaceae), summer 1975
- B. Editorial Assistant, BRITTONIA and SYSTEMATIC BOTANY under the supervision of Dr. W.L. Culberson, Dept. of Botany, Duke University (editing, proof-reading), 1975-1976
- C. Teaching Assistant, Division of Biological Sciences, University of Michigan (courses taught: Biology for Science Majors, Biology for Non-science Majors, Systematic Botany, Woody Plants, and Field Botany), 1976-1979
- D. Research Assistant for Dr. Rogers McVaugh, University Herbarium, University of Michigan (preparing a preliminary treatment of the Acanthaceae for the Nueva Galicia region of Mexico), summer 1979
- E. Assistant Instructor, University of Michigan Extension Service (teaching adult class in Spring Flora), spring 1980
- F. Lecturer in Botany, University of Michigan (teaching and coordinating labs in Systematic Botany course), winter 1981

- G. Curator, Arizona State University Herbarium (curating collection of 150,000 plants and research), 1981-1986
- H. Assistant Curator, Department of Botany, California Academy of Sciences, (research and curating collection of 1.5 million plants), 1986-1988
- I. Associate Curator, Department of Botany, California Academy of Sciences, (research and curating collection of 1.6 million plants), 1988-1991
- J. Chairman, Department of Botany, California Academy of Sciences (departmental administration) 1988-1991, 1994-1997, 2006-2009
- K. Editor, Scientific Publications, California Academy of Sciences (editor of Academy's *Proceedings*, *Occasional Papers*, and *Memoirs* series) 1991-1994
- L. Curator, Department of Botany, California Academy of Sciences, (research and curating collection of 2 million plants), 1991-2014
- M. Curator Emeritus, Department of Botany, California Academy of Sciences, 2015-present
- N. Grants Director, Stanley Smith Horticultural Trust (soliciting, reviewing, and making recommendations on grant applications), 2003-present
- O. Trustee, Stanley Smith Horticultural Trust, 2011-present

IV. Field Experience

Field work in the continental United States, Hawaii, Mexico, Belize, Guatemala, Honduras, Costa Rica, Panama, Ecuador, Peru, Bolivia, Brazil, São Tomé and Príncipe, South Africa, Madagascar, Australia, and Papua New Guinea.

V. Extramural Grants, Contracts, and Fellowships

Research

- A. NSF Grant DEB 78-09321 (1978), Field Studies of the Genus *Carlowrightia* Acanthaceae). (\$4,661)
- B. American Philosophical Society Research Grant 1572-Johnson Fund (1982), Field Studies in Nueva Galicia, Mexico. (\$1,400)
- C. NSF Grant DEB 83-04790 (1983), Systematic Studies of *Tetramerium* (Acanthaceae). (\$15,464)
- D. USDA Forest Service Contract 40-8371-3-492 (1983), Botanical Field Survey of the Dragoon Mtns., Arizona. (\$300)
- E. USDA Forest Service Contract 40-8371-4-592 (1984), Botanical Field Survey of the Reserve Ranger District, Gila National Forest, New Mexico. (\$400)
- F. USDI Fish and Wildlife Service Contract 14-16-002-81-223, amend. 7 (1984), Field Survey of *Tumamoca macdougalii*. (\$43,116)
- G. USDI Fish and Wildlife Service Contract 20181-0767-84 (1984), Status Report of *Choisya mollis*. (\$1,500)
- H. USDI Fish and Wildlife Service Contract 20181-0296-5 (1985), Status Report for *Phaseolus supinus*. (\$1,000)
- I. NSF Grant BSR-8609852 (1987-1989). Systematic Studies of Mexican Acanthaceae. (\$18,955).

- J. Center for Plant Conservation Grant (1991), Seed Survey in California Herbaria for Extirpated Plant Elements in California. (\$2,265)
- K. Christensen Research Institute Fellowship (1992), Systematic Studies of Malesian Acanthaceae: Papua New Guinea. (ca. \$3,000)
- L. Santa Barbara Botanic Garden Research Fellowship (1994), Acanthaceae of California and Baja California. (\$1,000)
- M. American Philosophical Society (1996), Field Studies of Acanthaceae in Southern Mexico. (\$3,700)
- N. National Geographic Society Grant 6712-00 (2000), Systematic and Evolutionary Studies of Honduran Acanthaceae. (\$9,284)
- O. NSF Grant DEB-0108589 (2001-2003), Phylogenetics of Acanthaceae: a Nested Approach to Resolving Relationships of Acanthaceae and their Closest Relatives. Co-PI. (\$160,534)
- P. American Philosophical Society (Franklin Grant, 2003), Acanthaceae of the Yucatan Peninsula. (\$4,000)
- Q. American Philosophical Society (2006), Pollination Biology of Southwestern Acanthaceae. (\$2,000).
- R. Lakeside Foundation (2006), Travel Support for Chinese Collaborator. (\$3,520).
- S. NSF, DEB-Revisory Systematics 0043273 (2008-2010). Collaborative Research: Relationships, Character Evolution, and Biogeographic Patterns in the Phylogenetically Pivotal Lineage Nelsonioideae (Acanthaceae). PI. (\$70,000)
- T. National Geographic Society Grant (2008), Field Studies of Acanthaceae in Guatemala. (\$6,300).
- U. Flora of North America Microgrant (2010), Field and Herbarium Studies for Treatment of Acanthaceae for Flora of North America. (\$1,800)

Equipment and Facilities

- A. NSF Grant BSR-8608380 (1986-1989) Support for Systematic Research Collections at the Botany Department of the California Academy of Sciences (\$220,469)--CO PI
- B. NSF Grant BSR-8820348 (1989-1990) Retrofitting of Specimen Storage Compactors at the Herbarium of the California Academy of Sciences (\$71,573)--PI
- C. NSF Grant BSR-9123340 (1992-1995) Curatorial Support for Botanical Systematic Collections at the California Academy of Sciences (\$159,663)--CO PI

VI. Current Membership in Scientific Societies/Organizations

American Society of Plant Taxonomists
 California Botanical Society
 California Native Plant Society
 Fellow of the California Academy of Sciences
 International Association for Plant Taxonomy
 Research Associate, Arizona-Sonora Desert Museum

VII. Professional Responsibilities

Trustee, Stanley Smith Horticultural Trust (2011-present) Grants Director, Stanley Smith Horticultural Trust (2003-present)
President, American Society of Plant Taxonomists (2001-2002)
Chairman, International Organization for Plant Information (2000-2003)
Treasurer, California Botanical Society (1986-1989)
Editor, *ACANTHUS* (international newsletter) (1987-94)
Board of Directors, Association of California Herbaria (1989-91)
Editorial Board, *Systematic Botany Monographs* (1989-1993)
Council, American Society of Plant Taxonomists (1990-1993)
Honors Committee, American Society of Plant Taxonomists (1991-1993); Chair, Honors Committee (1992-1993)
Human Resources Committee, Systematics Agenda 2000
Editor of Scientific Publications (*PROCEEDINGS, MEMOIRS, OCCASIONAL PAPERS*), California Academy of Sciences (1991-94)
Steering Committee, Species Plantarum Project (1994-2009)
Editorial Board, *Memoirs of the New York Botanical Garden* (1991-present)
Editorial Council, *Ibugana: Boletín del Instituto de Botánica de la Universidad de Guadalajara* (1994-present)
Consejo Editorial, *Polibotanica* (1995-present)
Research Professor, San Francisco State University (1998-present)

VIII. Research Interests

Plant systematics, biogeography, and evolution; systematics, evolution, and reproductive ecology of Acanthaceae; cultivated Acanthaceae; floristics of arid regions; economically important plants of the Neotropics

IX. Graduate Students and Post-doctoral Fellows Supervised

Geoff Smick (2000-2004): Monograph of *Streblacanthus* Kuntze (Acanthaceae):
Taxonomy and Phylogenetics, M.S.

Rebecca Peters (2001-2008): Violaceae of Chiapas, M.S.

Rebecca Wenk (2004-2008): Molecular Phylogeny, Biogeography, and Morphological Studies of the Genus *Elytraria* (Nelsonioideae: Acanthaceae), M.S.

Emily Magnaghi (2005-2010): Systematics and Distribution of Old World *Mendoncia*, M.S.

Mbola Versene Andrinandrasana Balzac (2006-2010): Comparison of Acanthaceae in three biotic communities of southern Madagascar, Ph.D. candidate, University of Antananarivo, Madagascar

Santiago Martín-Bravo (2012): Molecular Systematic Studies of Acanthaceae in Relation to Biogeography of *Barleria oenotheroides* and species richness of major clades, Post-doc

X. Undergraduate/Graduate Interns Supervised

Charles Davis (Summer Syst. Inst.)

Hoc Kho (Academy Internship in Biol. Illustration)
Nathan Sammons (Summer Syst. Inst.)
Sharon Franklet (Summer Syst. Inst.)
Barnaby Hall (Biological Illustration, independent)
Marck Menke (San Francisco Flora, independent)
Anya Illes (Fellows Internship in Biol. Illustration)
Meg Stalcup (Fellows Internship in Biol. Illustration)
Nadia Strasser (Fellows Internship in Biol. illustration)
Zina Deretsky (Biological Illustration, Hitachi Fellowship)
Alan Chou (Fellows Internship in Biol. Illustration)
Katharina Ullman (Pollination Biol., Pinhead Inst. Fellow.)
Erin Hunter (Fellows Internship in Biol. Illustration)
Amy Whitesides (Biological Illustration, CAS Botany Dept.)
Beatriz Mendoza (Biological Illustration, CAS Botany Dept.)
Nicole Bollinger (Wallace Internship, Biol. Illustration)
Heather-Rose Kates (Intern in Botany Dept, co-advisor)
Julia Weller (Univ. Halle-Wittenberg, CAS Botany Dept.)
Kimberly Spiegel (San Francisco Flora, Natl. Park Ser.)
Jon Young (Research Intern, Natl. Park Ser.)
Peter Biro (Summer Syst. Inst.)
Melissa Logies (Wallace Internship, Biol. Illustration)
Tom Davis (Wallace Internship, Biol. Illustration)
Hugh McNeil (Research Intern, Independent)
Kevin McGowan (San Francisco Flora, Univ. San Francisco)
Richard Graham-Bruno (Research Intern, Natl. Park Ser.)
Marie Faust (Research Intern, Natl. Park Ser.)

XI. Natural History/Lecture Tours Led

Amazon River, Peru (California Academy of Sciences): 2009
Australia (California Academy of Sciences): 1994
Belize (Oceanic Society Expeditions): 1995, 1996
Belize, Honduras, Guatemala (California Academy of Sciences): 2004
Copper Canyon, Mexico (California Academy of Sciences): 1999, 2000
Costa Rica and Panama (California Academy of Sciences): 1997, 1998
Galapagos Islands (California Academy of Sciences): 1991, 1998, 2005
Trinidad and Tobago (California Academy of Sciences): 2005, 2007

XII. Abstracts of Research Presentations at Professional Meetings

1980. Reproductive biology of *Carlwrightia*. Second International Congress of Systematic and Evolutionary Biology. Abstracts. p. 175.

1982. Contrasting reproductive strategies in two desert Acanthaceae. Bot. Soc. Amer. Misc. Ser. Publ. 162:90.
1984. Subgeneric classification of *Tetramerium* (Acanthaceae). Amer. J. Bot. (Abstracts) 71: (5:2):162.
1985. Pollination biology of *Tetramerium nervosum* in Arizona. J. Ariz.-Nev. Acad. Sci. 20 (proceed. suppl.):20.
- Taxonomy and phylogeography of the Chihuahuan Desert Acanthaceae. Amer. J. Bot. (Abstracts) 72:948-949.
1987. Systematic studies of *Bravaisia* (Acanthaceae). Amer. J. Bot. (Abstracts) 74:730.
1995. *Buceragenia* is cleistogamous *Pseuderanthemum*. Amer. J. Bot. (Abstracts) 82:123.
1998. *Barleria* (Acanthaceae) in the New World: phylogeographic and systematic implications. <http://www.ou.edu/cas/botany-micro/bsa-abst/section13/abstracts/27.shtml>
- Unraveling the Justicieae (Acanthaceae). (With L.McDade).
<http://www.ou.edu/cas/botany-micro/bsa-abst/section13/abstracts/120.shtml>
2000. Phylogenetic relationships within the enigmatic tribe Justicieae (Acanthaceae). (With L. McDade and K. Riley).
<http://www.ou.edu/cas/botany-micro/botany2000/section13/abstracts/2.shtml>
2001. Delimitation and subdivision of “Justicioids” (Acanthaceae, Justicieae). (With L. McDade, K. Balkwill, and A. Martin). <http://www.botany2001.org/section12/abstracts/110.shtml>
2002. Acanthaceae of Honduras: why so few species?
<http://www.botany2002.org/section12/abstracts/7.shtml>
- Phylogenetic relationships among Acantheae (Acanthaceae): taxonomic, biogeographic and morphological implications. (with L.A. McDade and S.E. Fosse).
<http://www.botany2002.org/section12/abstracts/146.shtml>
2003. Acantheae (Acanthaceae) with an emphasis on relationships among Old World plants with remarkable one-lipped corollas. Botany 2003, Abstracts, p. 87. 2003. Botanical Society of America. (with L.A. McDade, C.A. Kiel, and K. Vollesen).
<http://www.2003.botanyconference.org/engine/search/detail.php?aid=228>
2004. Phylogenetic relationships within the subtribe Isoglossinae (Acanthaceae). (with C.A. Kiel and L.A. McDade). Abstracts of Scientific Meeting, Botany 2004, p. 156. Botanical Society of America.

- Phylogenetic patterns among New World Acantheae: widespread polyphyly and poor resolution present a marked contrast with Old World Acantheae. (with L.A. McDade and C.A Kiel). Abstracts of Scientific Meeting, Botany 2004, p. 131. Botanical Society of America.
2005. Kiel, C.A., M. Manktelow, T.F. Daniel, K. Andreasen, P. Holmqvist, and L. McDade. 2005. Bird pollination has evolved multiple times in the *Tetramerium* group (*Tetramerium* Lineage, Justiceae, Acanthaceae). Abstract for Botany 2005: <http://www.2005.botanyconference.org/engine/search/index.php?func=detail&aid=226>
- Daniel, T.F. and L.A. McDade. 2005. Floral Resupination in Acanthaceae: Taxonomic and Geographic Distributions, Expression, and Possible Functions. Abstract for Botany 2005: <http://www.2005.botanyconference.org/engine/search/index.php?func=detail&aid=27>
- McDade, L.A., C.A. Keil, and T.F. Daniel. 2005. Molecular phylogenies reveal multiple origins for distinctive pollen types in Acanthaceae. Abstract for Botany 2005: <http://www.2005.botanyconference.org/engine/search/index.php?func=detail&aid=220>
2006. Wenk, R. and T.F. Daniel. 2006. Phylogeny and biogeography of *Elytraria* (Acanthaceae: Nelsonioideae) based on molecular sequence data from two genomes. *Botany 2006: Abstracts*, Scientific Meeting, Abstract 708:320. <http://www.2006.botanyconference.org/engine/search/index.php?func=detail&aid=330>
- McDade, L.A., T.F. Daniel, and C.A. Kiel. 2006. Relationships among the major lineages of Acanthaceae s.l.: the big picture. *Botany 2006: Abstracts*, Scientific Meeting, Abstract 520:238. <http://www.2006.botanyconference.org/engine/search/index.php?func=detail&aid=207>
- Kiel, C.A., L.A. McDade, and T.F. Daniel. 2006 The species-rich and biologically diverse “justicioids” (Acanthaceae: Justiceae): phylogeny, biogeography, and morphological evolution. *Botany 2006: Abstracts*, Scientific Meeting, Abstract 622:284. <http://www.2006.botanyconference.org/engine/search/index.php?func=detail&aid=337>
2007. Wenk, R. and T.F. Daniel. 2007. Molecular phylogeny and biogeography of *Elytraria* (Acanthaceae: Nelsonioideae). *Plant Biology and Botany 2007: Poster Abstract Book*, p. 293.
- Magnaghi, E.B. and T.F. Daniel 2007. Floral ecology of *Mendoncia cowanii* (Acanthaceae: Thunbergioideae) in Madagascar. *Plant Biology and Botany 2007: Poster Abstract Book*, p. 305.
- McDade, L.A., C.A. Kiel, and T.F. Daniel. 2007. Justiceae revisited: increased taxon sampling and characters support a new lineage and more “justicioid” Diclipterinae. *Plant Biology and Botany 2007 Program & Abstract Book*, pp. 245-246.

2008. McDade, L.A., T.F. Daniel, and C.A. Kiel. 2008. Evolutionary processes and the phylogeny of 'justicioids' (Acanthaceae: Justicieae): biogeography, molecular and morphological evolution, and species richness. Botany 2008 Conference (Botanical Society of America, American Society of Plant Taxonomists):

<http://2008.botanyconference.org/engine/search/index.php?func=detail&aid=381>

Kiel, Carrie, T.F. Daniel, and L.A. McDade. 2008. Relationships within the 'justicioid' lineage: phylogenetic signal amid taxonomic chaos. Botany 2008 Conference (Botanical Society of America, American Society of Plant Taxonomists):

<http://2008.botanyconference.org/engine/search/index.php?func=detail&aid=546>

McDade L., Kiel C., Daniel T.F., Tripp E.A. 2008. Biogeography of the Acanthaceae. South African Journal of Botany 74(2):358.

2009. Daniel, T.F. 2009. Floral Resupination in Acanthaceae: occurrences, Expression, and Clues to its Evolutionary Origin in Neotropical *Dicliptera*. CAS and UCSF Research Symposium (17 April 2009).

Kiel, C., L. McDade, and T.F. Daniel 2009. Relationships among "justicioids" (Acanthaceae): strong support for some surprising aspects of relationships. Botany 2009 Conference (Botanical Society of America, American Society of Plant Taxonomists):

<http://2009.botanyconference.org/engine/search/index.php?func=detail&aid=276>

McDade, L., T.F. Daniel, G. Ocampo, and C. Kiel. 2009. Relationships, character evolution, and biogeographic patterns in the phylogenetically pivotal lineage Nelsonioideae (Acanthaceae s.l.). Botany 2009 Conference (Botanical Society of America, American Society of Plant Taxonomists):

<http://2009.botanyconference.org/engine/search/index.php?func=detail&aid=232>

2010. Daniel, T.F. 2010. Acanthaceae of São Tomé and Príncipe [poster]. Botany 2010, July 31-August 4, Providence, Rhode Island [conference]:

<http://2010.botanyconference.org/engine/search/index.php?func=detail&aid=200>

Keil, C.A., L.A. McDade, and T.F. Daniel. 2010. The *Mirandea* Clade (Acanthaceae): New taxonomic, morphological, and phylogenetic insights. Botany 2010, July 31-August 4, Providence, Rhode Island [conference]:

<http://2010.botanyconference.org/engine/search/index.php?func=detail&aid=589>

McDade, L.A., C.A. Keil, and T.F. Daniel. 2010. The *Tetramerium* Lineage (Acanthaceae: Justicieae) revisited: A story of taxonomic polyphyly and parallel evolution of floral morphology. Botany 2010, July 31-August 4, Providence, Rhode Island [conference]:

<http://2010.botanyconference.org/engine/search/index.php?func=detail&aid=243>

Magnaghi, E.B. and T.F. Daniel. 2010. A Systematic Study of Paleotropical *Mendoncia* (Acanthaceae) [poster]. Botany 2010 July 31-August 4, Providence, Rhode Island [conference]:

<http://2010.botanyconference.org/engine/search/index.php?func=detail&aid=1102>

Magnaghi, E.B. and T.F. Daniel. 2010. A Systematic Study of Paleotropical *Mendoncia* Vell. ex Vand. (Acanthaceae) [poster]. Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale, XIXth AETFAT Congress (Antananarivo, Madagascar) Abstracts, page 275. National Botanic Garden of Belgium, Meise.

Mbola, B., M. Faramalala, R. Letsara, T. Daniel, and Ramavovololona. 2010. Distribution des Représentants de la Famille des Acanthaceae dans le Sud de Madagascar [poster]. Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale, XIXth AETFAT Congress (Antananarivo, Madagascar) Abstracts, page 295. National Botanic Garden of Belgium, Meise.

2011. Kiel, C, L. McDade, and T.F. Daniel. 2011. Unraveling Relationships among the morphologically diverse and taxonomically complex New World justicioids. Botany 2011, St. Louis, Missouri [conference]:

<http://2011.botanyconference.org/engine/search/index.php?func=detail&aid=433>

McDade, L., T.F. Daniel, and C. Kiel. 2011. Making sense of massive polyphyly in the genus *Carlowrightia* (Acanthaceae: Justiceae: Tetramerium lineage). Botany 2011, St. Louis, Missouri [conference]:

<http://2011.botanyconference.org/engine/search/index.php?func=detail&aid=254>

2012. Daniel, T.F. 2012. Acanthaceae of the United States and Canada: Taxonomy and Distribution. Botany 2012, Columbus, Ohio [conference]:

<http://www.botanyconference.org/engine/search/index.php?func=detail&aid=138>

2013. Daniel, T.F., V. Schnoll, J. Boyer, Jim, and R. Drewes. 2013. Repatriation of Biological Research Results through Educational Programs on the Islands of São Tomé and Príncipe. Botany 2013, New Orleans, Louisiana [conference]:

<http://www.botanyconference.org/engine/search/index.php?func=detail&aid=157>

Biro, P. and T.F. Daniel. 2013. Molecules and morphology inform taxonomy and conservation of two Neotropical species of *Justicia* (Acanthaceae). Symposium Abstracts. Summer Systematics Institute, California Academy of Sciences.

Logies, M. and T.F. Daniel. 2013. Traditional pen and ink illustration of species in Acanthaceae. Symposium Abstracts. Summer Systematics Institute/Internship in Biological Illustration, California Academy of Sciences.

XIII. Publications

1979 (1978). A new *Mirandea* (Acanthaceae) from Nuevo León, Mexico. *Syst. Bot.* 3:428-433.

Three new species of *Carlowrightia* (Acanthaceae) from the Chihuahuan Desert Region. *Madroño* 26:26-36. (with J. Henrickson).

1980. Studies of hybridizing *Verbascum* population in Michigan. *Michigan Bot.* 19:37-45. (with W. Wagner and M. Hansen).

Carlowrightia mcvaughii: a polymorphic species from southwestern Mexico. *Contr. Univ. Michigan Herb.* 14:57-60.

The genus *Justicia* (Acanthaceae) in the Chihuahuan Desert. *Contr. Univ. Michigan Herb.* 14:61-67.

Range extensions of *Carlowrightia* (Acanthaceae) and a key to the species of the United States. *Southwest. Nat.* 25:425-426.

Studies on *Populus heterophylla* in southern Michigan. *Michigan Bot.* 19:269-275. (with W. Wagner, J. Beitel, and S. Crispin).

1981. Lectotypification of Torrey's species of *Schaueria* (Acanthaceae). *Taxon* 30:48-51.

Mexacanthus, a new genus of Acanthaceae from western Mexico. *Syst. Bot.* 6:288-293.

1982. *Anisacanthus andersonii* (Acanthaceae), a new species from northwestern Mexico. *Bull. Torrey Bot. Club* 109:148-151.

On the recognition of *Anisacanthus junceus* (Acanthaceae). *Brittonia* 34:177-180. (with J. Henrickson)

A laboratory on chemotaxonomy: the systematic distribution of betalains. *Amer. Biol. Teacher* 44:308-310. (with T. Johns)

The genus *Mirandea* (Acanthaceae). *Contr. Univ. Michigan Herb.* 15:171-175.

1983. Systematics of *Holographis* (Acanthaceae). *J. Arnold Arbor.* 64:129-160.

Carlowrightia (Acanthaceae). *Fl. Neotrop.* 34:1-116.

1984 (1983). The Acanthaceae of the southwestern United States. *Desert Pl.* 5:162-179.

Proposal to conserve 8014 *Carlowrightia* against *Cardiacanthus* (Acanthaceae). *Taxon* 33:122-123.

Chromosome numbers and their systematic implications in some North American Acanthaceae. *Syst. Bot.* 9:346-355. (with B. Parfitt and M. Baker)

New and reconsidered Mexican Acanthaceae. *Madroño* 31:86-92.

1985 (1984). A revision of *Stenandrium* (Acanthaceae) in Mexico and adjacent regions. *Ann.*

- Missouri Bot. Gard.* 71:1028-1043.
- Artificial interspecific hybridization of three species of *Anisacanthus* (Acanthaceae). *J. Arizona-Nevada Acad. Sci.* 19:85-88.
1986. New and reconsidered Mexican Acanthaceae. II. *Southwest. Nat.* 31:169-175.
- Systematics of *Tetramerium* (Acanthaceae) *Syst. Bot. Monogr.* 12:1-134.
- Acanthaceae. Pp. 27-30. In D.E. Breedlove, *Listados Florísticos de México. IV. Flora de Chiapas*. Instituto de Biología, UNAM. México, D.F.
1988. *Aphanosperma*, a new genus of Acanthaceae from Mexico with unusual diaspores. *Amer. J. Bot.* 75:543-548.
- A systematic study of *Bravaisia* DC. (Acanthaceae). *Proc. Calif. Acad. Sci.* 45:111-131.
- Taxonomic, nomenclatural, and reproductive notes on *Carlowrightia* (Acanthaceae). *Brittonia* 40:245-255.
- Noteworthy collections: California. *Carlowrightia arizonica*. *Madroño* 35:279-280. (with M. Bourrell)
- Three new species of *Holographis* (Acanthaceae) from Mexico. *Proc. Calif. Acad. Sci.* 46:73-81.
1989. The correct name, author, and type of the common *Henrya* (Acanthaceae) and neotypification of *Justicia scorpioides* L. *Taxon* 38:265-270.
- Taxonomic notes on two cultivated species of *Justicia* (Acanthaceae). *Baileya* 23:47-50.
- Chromosome numbers of some cultivated Acanthaceae. *Baileya* 23:86-93. (with T.I. Chuang).
1990. Chromosome numbers of American Acanthaceae. *Syst. Bot.* 15:13-25. (with T.I. Chuang and M.A. Baker).
- Systematics of *Henrya* (Acanthaceae). *Contr. Univ. Michigan Herb.* 17:99-131.
- New, reconsidered, and little known Mexican *Ruellia* (Acanthaceae). *Contr. Univ. Michigan Herb.* 17:139-162.
- New and reconsidered Mexican Acanthaceae. III. *Justicia*. *Contr. Univ. Michigan Herb.* 17:133-137.
- New and reconsidered Mexican Acanthaceae. IV. *Proc. Calif. Acad. Sci.* 46:279-287.

- Three new species of *Justicia* (Acanthaceae) from Panama. *Proc. Calif. Acad. Sci.* 46:289-297. (with D. Wasshausen).
1991. A revision of *Aphelandra* (Acanthaceae) in Mexico. *Proc. Calif. Acad. Sci.* 47:235-274.
- A synopsis of *Poikilacanthus* (Acanthaceae) in Mexico. *Bull. Torrey Bot. Club* 118:451-458.
1992. Acanthaceae: Mendoncioideae of Mexico. *Acta Botanica Mexicana* 17:53-60.
- A new species of *Uroskinnera* (Scrophulariaceae) from southern Mexico. *Madroño* 39:131-136. (with D.E. Breedlove)
- Flora of the South Mountains of central Arizona. *Desert Pl.* 10:99-119. (with Mary Butterwick).
- Noteworthy collections. California: *Gaudinia fragilis*. *Madroño* 39:309-310. (with C. Best, J. Guggolz, and B. Guggolz).
1993. Mexican Acanthaceae: diversity and distribution. Pp. 541-558 in T. P. Ramamoorthy et al., *Biological Diversity of Mexico: Origins and Distribution*. Oxford Univ. Press. New York.
- A new species of *Justicia* (Acanthaceae) from Southern Mexico. *Kew Bulletin* 48:119-123. (with S. Acosta C.)
- New and reconsidered Mexican Acanthaceae. V. *Contr. Univ. Michigan Herb.* 19:271-291.
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