

R é s u m é

Robbin Craig Moran

Curator Emeritus
Institute of Systematic Botany
The New York Botanical Garden
2900 Southern Blvd., Bronx, NY 10458-5126, USA
rmoran@nybg.org (314) 727-8073 (Phone)
Website: <https://www.nybg.org/person/robbin-moran/>

Education

Ph.D. in Botany, The University of Illinois at Urbana-Champaign, May 1986
M.S. in Botany, Southern Illinois University at Carbondale, May 1980.
B.S. in Biology, Beloit College, Beloit, Wisconsin, April 1978.

Goals

To participate in a stimulating academic environment, to teach graduate courses, and to do original, critical research in botany.

Current Research Projects

Preparing *The Genera of American Ferns and Lycophytes, a Guide for Students*.
Systematic studies of *Elaphoglossum* (Dryopteridaceae).

Research Experience

Published four books and over 200 scientific papers on ferns.
Named over 115 new species of ferns.
Organized and edited the Pteridophyte volume for *Flora Mesoamericana*, the largest fern flora ever written (treating nearly 1400 species). Wrote 65% of generic treatments.
Monographed 12 neotropical fern clades: *Asplenium* sect. *Hymenasplenium* (10 spp.), *Callipteris* (15), *Lomariopsis* (15), *Megalastrum* (90), *Mickelia* (10), *Polybotrya* (35), *Stigmatopteris* (23), and *Triplophyllum* (9), *Polystichopsis* (7); *Elaphoglossum* sect. *Squamipedia* (17 spp.); *Elaphoglossum* subsect. *Apoda* (14 spp.).
Compiled the *Annual Review of Pteridological Research*, 1989–1994.
Served as Associate Editor of the *American Fern Journal* from 1991–2024 and *Brittonia* from 1998–2023.
Carried out extensive fieldwork in Latin America, especially Costa Rica.

Teaching Experience

Organization for Tropical Studies, *Tropical Plant Systematics* (6 weeks) Costa Rica, 1998–2019 (odd years taught in Spanish)
Organization for Tropical Studies, *Tropical Ferns & Lycophytes* (2 weeks) Costa Rica, 2008, 2013, 2015, 2017, 2019.
Eagle Hill Biological Station, Maine, *Biology of Ferns and Lycophytes* (one week), 2005–2024
City University of New York, *Pteridology*, in 1999, 2004, 2012 (one semester)

Associate Professor, University of Arkansas at Little Rock. Courses taught: Plant Geography, Plant Taxonomy, Botany, and Biology.

Assistant Professor (Gæstlektor), Aarhus University, Aarhus, Denmark, from 1993 to 1996. Courses taught: Tropical Ecology, Plant Geography, Scientific Writing and Speaking, Pteridology.

Guest lecturer for one- to two-week pteridology courses in Latin America: Ecuador (QCA, 2012), Venezuela (National Herbarium, March 2000), Bolivia (Univ. of La Paz, July 1994), Costa Rica (INBio, February and April 1992), Ecuador (Herbario Nacional, February 1991). Wrote a bilingual lab manual to teach the course with.

Graduate Teaching Assistant, Southern Illinois University at Carbondale and The University of Illinois at Urbana-Champaign. 1978–1986. Courses taught: Introductory Botany, Introductory Biology, Plant Taxonomy, and Local Flora.

Graduate Students Advised

External Thesis advisor for Thereis Choo, Cornell University, "Systematics of Dipteridaceae" [graduated 2017]

Thesis advisor for Fernando Matos, City University of New York, "Systematics of *Elaphoglossum* section *Polytrichia* (Dryopteridaceae)" [graduated 2015]

Thesis advisor for Alejandra Vasco, City University of New York, "Systematics of *Elaphoglossum* subsection *Muscosa* (Dryopteridaceae)" [graduated 2010]

Thesis Advisor for Michael Sundue, City University of New York, "Systematics of *Terpsichore taxifolia* group (Polypodiaceae)" [graduated 2009]

External Thesis Advisor for Germinal Rouhan, Univ. of Paris, France, "Phylogeny of the fern genus *Elaphoglossum* (Elaphoglossaceae)" [graduated 2005]

External Advisor, Ph.D. dissertation for Leticia Pacheco M. (1997), Universidad Nacional Autónoma Metropolitana - Iztapalapa, México. "Monografía del género neotropical *Callipteris* (Woodsiaceae; Pteridophyta)."

External Advisor for Paulo Labiak, Univ. de São Paulo, Brazil, "Grammitidaceae of Brazil." 1999.

Advisor, M.S. thesis for Else Østergaard Andersen, Aarhus University. 1995. Gleicheniaceae of Ecuador.

Grants

2018. Thematic Collections Network. Digitization and imaging of ferns and lycophytes. NSF-funded. \$354,805 (three years, August 1, 2018 and ends July 31, 2021).

2011. The Christopher Reynolds Foundation, Inc. To bring Cuban fern student Josmaily Loriga to NY for research and training. \$15,000 (four months)

2011. National Science Foundation. Research Experience for Undergraduates. \$7,500 (three months, summer)

2010–2013. National Science Foundation. Taxonomic Revision, Phylogenetic Analysis, and Leaf Evolution in *Elaphoglossum* sect. *Squamipedia* (Dryopteridaceae). \$333,000 (three years).

2007–2009. National Science Foundation. Monographic Revision and Phylogeny of the Fern Genus *Megalastrum* (Dryopteridaceae). \$320,000 (two years).

2002–2005. National Science Foundation. Phylogeny and Biogeography of the Fern Genus *Elaphoglossum* (Elaphoglossaceae). \$263,387 (three years).

- 1995–1996. Danish Centre for Tropical Biodiversity, for fieldwork on fern ecology in western Amazonia, \$20,000.
1991–1992. National Geographic Society, Field Research Grant, for plant collecting in Taiwan, \$27,000.
1983–1985. NSF Doctoral Dissertation Improvement Grant, for fieldwork in Costa Rica, Panama, Venezuela, Ecuador, and Peru, \$8,200
1981. Tinker Foundation Grant, for fieldwork in Costa Rica on doctoral dissertation, \$800.

Awards & Honors

2011. Peter Raven Award, American Society of Plant Taxonomists (see J. S. Miller & A. Vasco, *Systematic Botany* 37: 5–6. 2012.).
2005. Silver Award for Best Writing, Garden Writers Association, 2005.
2023. Neotropical Pteridology: A Dedication to Robbin Moran (colloquium at Botany 2023 meetings in Boise, Idaho).

Society Memberships

- American Fern Society
American Society of Plant Taxonomists (life member)

Other

- 2010-present Trustee, Eagle Hill Institute and Eagle Hill Foundation, Stueben, Maine

Employment History

- 2020–present Curator Emeritus
2001–2020 Nathaniel Lord Britton Curator of Botany, The New York Botanical Garden
1998–2001 Associate Curator, The New York Botanical Garden
1996–1997 Associate Professor, Biology Dept., Univ. of Arkansas at Little Rock
1993–1996 Assistant Professor (Gaestlektor), Department of Systematic Botany, Aarhus University, Denmark
1987–1993 Assistant Curator, Missouri Botanical Garden, St. Louis.
1981 Field Botanist, Illinois Natural History Survey.
1978–1980 Field Botanist, Wisconsin Department of Natural Resources, Scientific Areas Section. (summers)
1976–1977 Field Botanist, Illinois Natural Areas Inventory. (summers)

Field Experience in the Tropics

- 1981 Costa Rica (6 weeks)
1982 Costa Rica, Panama (6 weeks)
1984 Ecuador (5 weeks); Peru (4 weeks); Venezuela (3 weeks)
1987 Panama (4 weeks); Mexico (2 weeks)
1988 Panama (4 weeks); Costa Rica (3 weeks)
1990 Panama (4 weeks)
1991 Ecuador (4 weeks); Taiwan (4 weeks); Honduras (4 weeks)
1992 Costa Rica (3 weeks); Taiwan (3 weeks); Costa Rica (3 weeks)
1994 Bolivia (4 weeks)

1995	Thailand (4 weeks)
1996	Ecuador (4 weeks)
1998	Costa Rica (8 weeks)
2000	Mexico (3 weeks); Venezuela (4 weeks); Costa Rica (8 weeks).
2001	Costa Rica (10 weeks)
2002	Costa Rica (10 weeks)
2003	Costa Rica (10 weeks)
2004	Ecuador (5 weeks); Costa Rica (6 weeks)
2005	Ecuador (5 weeks); Costa Rica (2 weeks)
2006–13	Costa Rica (6 weeks)
2011	Ecuador (3 weeks); Costa Rica (6 weeks)
2015	Costa Rica (3 weeks)
2016	Costa Rica (6 weeks); Mexico (2 weeks)
2017	Costa Rica (6 weeks)
2018	Costa Rica (3 weeks)
2019	Costa Rica (6 weeks)

Special Skills

Fluent in Spanish

Proficient in Botanical Latin

Write popular articles about plants

Publications

Books:

- Moran, R. C. & R. Riba, editors for Pteridophytes. 1995. Flora Mesoamericana. Volumen 1. Pteridofitas, Psilotaceae a Salviniaceae, Univ. Nacional Autónoma de México, Ciudad Universitaria. 470 pp. [In Spanish]
- Tryon, A. F. & R. C. Moran. 1997. The Ferns and Allied Plants of New England. Massachusetts Audubon Society, Lincoln, Massachusetts. 325 pp.
- Hoshizaki, B. J. & R. C. Moran. 2001. Fern Grower's Manual. Timber Press. 604 pp. [Awarded "Outstanding Academic Title of 2001" by Choice magazine]
- Moran, R. C. 2004. A Natural History of Ferns. Timber Press, Portland, Oregon. 301 pp. [Awarded "Best Writing 2005" by Garden Writer's Association]

Six Most Significant Publications:

- Labiak, P. H. & R. C. Moran. 2018. Phylogeny of *Campyloneurum* (Polypodiaceae). International Journal of Plant Sciences 179(1): 36–49.
- Moran, R. C., J. Garrison Hanks & P. H. Labiak. 2018. Evolution of spore morphology in the Blechnaceae. International Journal of Plant Sciences 179(9): 712–729.
- Moran, R. C. 2008. Biogeography of ferns and lycophytes. Pages 369–396. In: C. Haufler & T. A. Ranker, editors. The Biology and Evolution of Ferns and Lycophytes. Cambridge University Press.

- Moran, R. C., S. Klimas, and M. Carlsen. 2003. Low-trunk epiphytic ferns on tree ferns versus angiosperms in Costa Rica. *Biotropica* 35: 48–56.
- Moran, R. C. & A. R. Smith. 2001. Phylogeographic relationships between neotropical and African-Madagascan pteridophytes. *Brittonia* 53: 304–351.
- Moran, R. C. 1995. The importance of mountains to pteridophytes, with emphasis on neotropical montane forests. Pages 359–363. *In*: S. P. Churchill, H. Balslev, E. Forero, J. L. Luteyn, editors. *Biodiversity and Conservation of Neotropical Montane Forests*, New York Bot. Gard., Bronx.

List of all Publications:

- Moran, R. C. 1978. Presettlement vegetation of Lake County, Illinois. Pages 12–18. *In*: R. Q. Landers & D. C. Glenn-Lewin, editors. *Proceedings of the 5th Midwest Prairie Conference*, Ames, Iowa.
- Bushey, C. L. and R. C. Moran. 1978. Vascular flora of Shaw Prairie, Lake County, Illinois. *Transactions of the Illinois State Academy of Science* 71: 427–435.
- Moran, R. C. 1978. Vascular flora of the ravines along Lake Michigan in Lake County, Illinois. *Michigan Botanist* 17: 120–140.
- Moran, R. C. 1980. Lake Michigan's ravines along Chicago's north shore. *Field Museum Bulletin* 51(5): 8–11.
- Moran, R. C. 1981. Prairie fens in northeastern Illinois: floristic composition and disturbance. *In*: Stuckey, R. L., and K. J. Reese, eds. *The Prairie Peninsula--in the "shadow" of Transeau: Proceedings of the Sixth North American Prairie Conference*, The Ohio State University, Columbus, Ohio, *Ohio Biol. Surv. Notes*. No. 15, pp. 164–168.
- Moran, R. C. 1981. *Thelypteris simulata* (Davenp.) Nieuwl. - a major range extension in the southern Appalachians. *American Fern Journal* 71: 21.
- Moran, R. C. 1981. \times *Asplenosorus shawneensis*, a new natural fern hybrid between *Asplenium trichomanes* and *Camptosorus rhizophyllus*. *American Fern Journal* 71: 85–89.
- Moran, R. C. 1982. *Cystopteris* \times *illinoensis*: a new natural hybrid fern. *American Fern Journal* 72: 41–44.
- Moran, R. C. 1982. *Cystopteris tennesseensis* in Illinois. *American Fern Journal* 72: 93–95.
- Moran, R. C. 1982. *Cystopteris* \times *tennesseensis* Shaver: A new Virginia state record with an interesting range disjunction. *Jeffersonia* 13: 30–34.
- Moran, R. C. 1982. The *Asplenium trichomanes* complex in the United States and adjacent Canada. *American Fern Journal* 72: 5–11.
- Moran, R. C. 1983. *Cystopteris tenuis* (Michx.) Desv.: a poorly understood species. *Castanea* 48: 218–223.
- Moran, R. C. 1983. *Cystopteris* \times *wagneri*: a new naturally occurring hybrid between *C. tennesseensis* and *C. tenuis*. *Castanea* 48: 224–229.
- Moran, R. C. 1983. *Equisetum* \times *ferrissii* in Illinois. *Castanea* 48: 79–82.
- Moran, R. C. 1983. Two new species of *Ctenitis* (Dryopteridaceae) from Costa Rica. *Brenesia* 21: 449–453.
- Moran, R. C. 1985. Ryerson woods: a fire protected forest. *Ryerson Almanac*. 3(4): 1–2.

- Moran, R. C. 1986. *Polybotria*...un género extraordinario de helechos trepadores. *Natura* (Caracas, Venez.) 76: 33–36.
- Moran, R. C. 1986. The neotropical fern genus *Olfersia*. *American Fern Journal* 76: 161–178.
- Smith, A. R. & R. C. Moran. 1986. New combinations in *Megalastrum* (Dryopteridaceae). *American Fern Journal* 77: 124–130.
- Moran, R. C. 1987. Monograph of the neotropical fern genus *Polybotrya* (Dryopteridaceae). *Illinois Natural History Survey Bulletin* 34: 1–138.
- Moran, R. C. 1987. *Olfersia* and *Polybotrya*. In: Smith, A. R. Checklist of Venezuelan Pteridophytes. Univ. of California, Berkeley.
- Moran, R. C. 1987. Sterile-fertile leaf dimorphism and evolution of soral types in *Polybotrya* (Dryopteridaceae). *Systematic Botany* 12: 617–628.
- Wagner, Jr., W. H., J. M. Beitel, & R. C. Moran. 1989. *Lycopodium hickeyi*: a new species of North American clubmoss. *American Fern Journal* 79: 119–121.
- Yatskievych, G. & R. C. Moran. 1989. Primary divergence and species concepts in ferns. *American Fern Journal* 79: 36–45.
- Moran, R. C. 1990. Two new species of *Cnemidaria* (Cyatheaceae) from Panama. *Annals of the Missouri Botanical Garden* 77: 246–248.
- Moran, R. C. 1990 Three new species of ferns from Mesoamerica. *Ann. Missouri Bot. Gard.* 77: 591–593.
- Moran, R. C. 1990. A new species of *Polypodium* (Polypodiaceae) and two new species of *Hypolepis* (Dennstaedtiaceae) from Mesoamerica. *Annals of the Missouri Botanical Garden* 77: 845–850.
- Moran, R. C. 1990. *Olfersia, Polybotrya, and Stigmatopteris*. Pp. 117–119. In: Kramer, K., editor for pteridophytes, *Plant Families and Genera of the World*. Academic Press.
- Moran, R. C. 1991. *Olfersia, Polybotrya, and Stigmatopteris*. Pp. 42–47, 57–65. In: R. M. Tryon & R. G. Stolze, *Pteridophyta of Peru, Fieldiana, Botany, new series, no. 27*.
- Smith, A. R., R. C. Moran & L. E. Bishop 1991. *Lellingeria*, a new genus of Grammitidaceae. *American Fern Journal* 81: 76–88.
- Moran, R. C. 1991. Monograph of the Neotropical fern genus *Stigmatopteris* (Dryopteridaceae). *Annals of the Missouri Botanical Garden* 78: 857–914.
- Moran, R. C. 1991. Eight new species of tree ferns (*Cyathea*, Cyatheaceae) from the American tropics and three new combinations. *Novon* 1: 88–104.
- Moran, R. C. 1992. Five new species of ferns from the American tropics. *Novon* 2: 132–138.
- Smith, A. R. & R. C. Moran 1992. *Melpomene*, a new genus of Grammitidaceae. *Novon* 2: 426–432.
- Murakami, N. & R. C. Moran. 1993. Monograph of the neotropical species of *Asplenium* sect. *Hymenasplenium* (Aspleniaceae). *Annals of the Missouri Botanical Garden* 80: 1–38.
- Moran, R. C. 1993. *Ctenitis, Lomariopsis, Maxonia, Tectaria*; (with C. Haufler) *Cystopteris*; (with W. H. Wagner & C. Werth) *Asplenium*. In: N. Morin, editor. *Flora of North America. Volume 2, Pteridophytes and Gymnosperms*. Oxford Univ. Press: New York.
- Moran, R. C. 1993. *Olfersia, Polybotrya, and Stigmatopteris*. In: A. R. A. Görts-van Rijn (editor) *The Flora of the Guianas, Series B: Ferns and Fern allies. Fascicle 6. Dryopteridaceae*.

- Moran, R. C. & R. Riba, editors for Pteridophytes. 1995. Flora Mesoamericana. Volumen 1. Pteridofitas, Psilotaceae a Salviniaceae, Univ. Nacional Autónoma de México, Ciudad Universitaria. 470 pp. [In Spanish]
- Moran, R. C. 1995. Five new species and two new combinations of ferns (Polypodiopsida) from Ecuador. *Nordic Journal of Botany* 14: 49–58.
- Moran, R. C. & B. Øllgaard. 1995. Six new species of ferns (Polypodiopsida) from Ecuador. *Nordic Journal of Botany* 15: 177–185.
- Moran, R. C. 1995. *Olfersia*, *Polybotrya*, and *Stigmatopteris*. In: A. R. Smith, Flora of the Venezuelan Guayana, vol. 2, Pteridophytes, Spermatophytes: Acanthaceae—Araceae. J. A. Steyermark, P. E. Berry & B. K. Holst, general editors. Timber Press, Portland.
- Moran, R. C. 1995. The importance of mountains to pteridophytes, with emphasis on neotropical montane forests. Pp. 359–363. In: S. P. Churchill et al., editors. Biodiversity and Conservation of Neotropical Montane Forests. New York Bot. Gard.
- Moran, R. C. 1996. The importance of the Andes as a barrier to migration, as illustrated by the pteridophytes of the Chocó phytogeographic region. Page 75. In: J. M. Camus & R. J. Johns, editors. Pteridology in Perspective. Royal Botanic Gardens, Kew.
- Tryon, A. F. & R. C. Moran 1997. The Ferns and Allied Plants of New England. Massachusetts Audubon Society, Lincoln, Massachusetts. 325 pp.
- León, B. & R. C. Moran. 1997. *Cyathea concordia* (Cyatheaceae), a new pinnate-pinnatifid tree fern the Peruvian/Ecuadorian border. *Brittonia* 48: 511–513.
- Tuomisto, H., A. D. Poulsen, & R. C. Moran. 1998. Edaphic distribution of some species of the fern genus *Adiantum* in western Amazonia. *Biotropica* 30: 392–399.
- Moran, R. C. & B. Øllgaard. 1998. New species of ferns (Polypodiopsida) from Ecuador. *Nordic Journal of Botany* 18: 431–439.
- Pacheco, L. & R. C. Moran. 1999. Monograph of the neotropical species of *Callipteris* with anastomosing veins (Woodsiaceae). *Brittonia* 51(3): 343–388.
- Moran, R. C. & A. R. Smith. 2000. *Salvinia adnata* Desv. versus *S. molesta* D. S. Mitch. *American Fern Journal* 89: 268–269.
- Moran, R. C. 2000. Monograph of the neotropical species of *Lomariopsis* (Lomariopsidaceae). *Brittonia* 52: 55–111.
- Moran, R. C. 2000. *Trichomanes resinosum* (Hymenophyllaceae), a new species from southern Venezuela and adjacent Guyana. *Brittonia* 52: 238–240.
- Hoshizaki, B. J. & R. C. Moran. 2001. Fern Grower's Manual. Timber Press. 604 pp. [Awarded “Outstanding Academic Title of 2001” by Choice magazine]
- Tuomisto, H. & R. C. Moran. 2001. Marattiaceae. *Flora of Ecuador* 66: 23–68.
- Moran, R. C. 2001. Introduction: Papers from the Pteridophyte Biogeography Symposium, International Botanical Congress. *Brittonia* 53: 171–172.
- Moran, R. C. & A. R. Smith. 2001. Phytogeographic relationships between neotropical and African-Madagascan pteridophytes. *Brittonia* 53: 304–351.
- Moran, R. C. 2001. Estimates of the number of mounted pteridophyte specimens in six major herbaria in the United States. *Brittonia* 53: 435–436.
- Moran, R. C. & J. E. Watkins, Jr. 2002. The occurrence and morphology of *Adiantum* × *variopinnatum* (Pteridaceae). *Brittonia* 54: 57–60.
- Tuomisto, H., K. Rukoleinen, A. D. Poulsen, R. C. Moran, C. Quintana, G. Cañas & J. Celi. 2002. Distribution of pteridophytes and Melastomataceae along edaphic

- gradients in Yasuni National Park, Ecuadorian Amazonia. *Biotropica* 34: 516–533.
- Moran, R. C., S. Klimas & M. Carlsen. 2003. Low-trunk epiphytic ferns on tree ferns versus angiosperms in Costa Rica. *Biotropica* 35: 48–56.
- Tuomisto, H., K. Rukoleinen, A. D. Poulsen, R. C. Moran, C. Quintana, G. Cañas & J. Celi. 2003. Linking floristic patterns with soil heterogeneity and satellite imagery in Ecuadorian Amazonia. *Ecological Applications* 13: 352–371.
- Pacheco M., L. & R. C. Moran. 2003. Lectotypification of several names currently placed in *Diplazium* (Woodsiaceae). *American Fern Journal* 93: 90–92.
- Bowles, M., M. Jones, C. Dunn, J. McBride, C. Bushey & R. C. Moran. 2003. Twenty-year woody vegetation changes in northern flatwoods and mesic forest at Ryerson Conservation Area, Lake County, Illinois. *Erigenia* 19: 31–51.
- Moran, R. C. 2004. *A Natural History of Ferns*. Timber Press, Portland, Oregon. 301 pp. [Awarded “Best Writing 2005” by Garden Writer’s Association]
- Moran, R. C. & M. Sundue. 2004. *Asplenium* (sect. *Hymenasplenium*) *basisopicum*, a new species from Bolivia. *Brittonia* 56: 124–127.
- Moran, R. C. & J. E. Watkins. 2004. *Lomariopsis* × *farrarii*, a new hybrid from Costa Rica between *L. japurensis* and *L. vestita* (Lomariopsidaceae). *Brittonia* 56: 205–209.
- Moran, R. C. & J. T. Mickel. 2004. Three new neotropical species of *Elaphoglossum* (Elaphoglossaceae) with subulate scales. *Brittonia* 56: 200–204.
- Moran, R. C. & R. V. Russell. 2004. The occurrence of *Trichomanes godmanii* (Hymenophyllaceae) on *Welfia georgii* (Arecaceae) at the La Selva Biological Station, Costa Rica. *American Fern Journal* 94: 70–76.
- Moran, R. C. 2004. Dispatches from the fern frontier. *Natural History*. October issue, pages 52–57.
- Rouhan, G., J.-Y. Dubuisson, F. Rakotondrainibe, T. J. Motley, J. T. Mickel, J.-N. Labat & R. C. Moran. 2004. Molecular phylogeny of the fern genus *Elaphoglossum* (Elaphoglossaceae) based on chloroplast non-coding DNA sequences: contributions of species from the Indian Ocean Area. *Molecular Phylogenetics & Evolution* 33: 745–763.
- Skog, J. E., T. Mickel, R. C. Moran, M. Volovsek & E. A. Zimmer. 2004. Molecular studies of the New World species in the fern genus *Elaphoglossum* (Dryopteridaceae) based on chloroplast DNA sequences *rbcL*, *trnL*, *rps4* and *trnS*. *International Journal of Plant Science* 165: 1063–1075.
- Moran, R. C. & A. R. Smith. 2005. *Blechnum obtusum* (Blechnaceae), a new species from western Venezuela. *Brittonia* 57: 237–239.
- Ranker, T., G. Trapp, A. R. Smith, R. C. Moran & B. S. Parris. 2005. New Records of Lycophytes and Ferns from Moorea, French Polynesia. *American Fern Journal* 95: 126–127.
- Moran, R. C. 2005. Pteridofitas. Pp. 32–72. *In*: P. Slenář, J. L. Luteyn, C. Ulloa Ulloa, P. M. Jørgensen & M. O. Dillon. *Flora genérica de los páramos, guía ilustrada de las plantas vasculares*. *Memoirs of the New York Botanical Garden*, vol. 92.
- Smith, A. R., L. León, H. Tuomisto, H. van der Werff, R. C. Moran, M. Lehnert & M. Kessler. 2005. New records of pteridophytes for the flora of Peru. *Sida* 21: 2321–2342.

- Watkins, J. E., Jr., C. Cardelús, R. K. Colwell & R. C. Moran. 2006. Species richness and distribution of ferns along an elevational gradient in Costa Rica. *American Journal of Botany* 93: 73–83.
- Little, D. P., R. C. Moran, E. D. Brenner & D. W. Stevenson. 2007. Nuclear genome size in *Selaginella*. *Genome* 50: 351–356.
- Rouhan, G., J. Garrison-Hanks, D. McClelland & R. C. Moran. 2007. Preliminary phylogenetic analysis of the fern genus *Lomariopsis* (Lomariopsidaceae). *Brittonia* 59: 115–128.
- Moran, R. C., J. Garrison Hanks & G. Rouhan. 2007. Spore morphology in relation to phylogeny in the fern genus *Elaphoglossum* (Dryopteridaceae). *International Journal of Plant Science* 168: 905–929.
- Rouhan, G., F. Rakotondrainibe & R. C. Moran. 2007. *Elaphoglossum nidusoides* (Dryopteridaceae), a new species of fern from Madagascar with an unusual phylogenetic position within the *Squamipedia* group. *Systematic Botany* 32: 227–235.
- Cremers G., R. J., Hickey, D. B., Lellinger, J. T. Mickel, R. C. Moran, B. Øllgaard & A. R. Smith. 2007. Pteridophytes and Allies. Pp. 17–56. *In*: V. Funk, T. Hollowell, P. Berry, C. Kelloff & S. N. Alexander. Checklist of the Plants of the Guiana Shield (Venezuela: Amazonas, Bolivar, Delta Amacuro; Guyana; Surinam; French Guiana). *Contributions from the United State National Herbarium* 55:1–584.
- Moran, R. C. 2008. Biogeography of ferns and lycophytes. Pp. 369–396. *In*: C. Haufler & T. A. Ranker, editors. *The Biology and Evolution of Ferns and Lycophytes*. Cambridge University Press.
- Moran, R. C. 2008. John T. Mickel—recipient of the 2007 Peter Raven Award. *Systematic Botany* 33: 5–6.
- Prado, J. & R. C. Moran. 2008. Revision of the neotropical species of *Triplophyllum* (Tectariaceae). *Brittonia* 60: 103–130.
- Rouhan, G., D. H. Lorence, T. J. Motley, J. G. Hanks & R. C. Moran. 2008. Systematic revision of *Elaphoglossum* (Dryopteridaceae) in French Polynesia, with description of three new species. *Botanical Journal of the Linnean Society* 158: 309–331.
- Moran, R. C., J. Prado, P. Labiak, J. Garrison Hanks & E. Schuettpelz. 2008. A “new” species of tree fern from southeastern Brazil: *Cyathea myriotricha* (Cyatheaceae). *Brittonia* 60: 362–370.
- Moran, R. C., J. Prado & P. Labiak. 2009. *Megalastrum* (Dryopteridaceae) in southeastern Brazil, Paraguay, and Uruguay. *American Fern Journal* 94: 1–44.
- Prado, J. & R. C. Moran. 2009. Checklist of the ferns and lycophytes of Acre state, Brazil. *Fern Gazette* 18: 230–263.
- Vasco, A., G. Rouhan & R. C. Moran. 2009. Circumscription and phylogeny of the *Elaphoglossum ciliatum* group (*E.* sect. *Lepidoglossa*, Dryopteridaceae) based on cpDNA sequences. *Taxon* 58: 825–834.
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- Tectaria moranii* Li Bing Zhang & G.D. Tang, *Phytotaxa* 357(3): 230. 2018.

New taxa published

Families

Desmophlebiaceae Mynssen, Vasco, R. C. Moran, Sylvestre & Rouhan

Genera

Desmophlebium Mynssen, Vasco, R. C. Moran, Sylvestre & Rouhan
Ephemeropteris R. C. Moran & Sundue
Lellingeria A. R. Sm. & R. C. Moran
Lastreopsis subgen. *Rhopalotricha* Labiak, Sundue & R. C. Moran
Melpomene A. R. Sm. & R. C. Moran
Mickelia R. C. Moran, Labiak & Sundue

Sections

Sect. *Decurrentia* R. C. Moran & Labiak

Species

1 *Arachniodes squamulosa* R. C. Moran & B. Øllg.
Asplenium basispicum R. C. Moran & Sundue
Asplenium ortegae N. Murak. & R. C. Moran
Asplenium triquetrum N. Murak. & R. C. Moran
Asplenium volubile N. Murak. & R. C. Moran
Asplenosorus ×*shawneense* R. C. Moran
Blechnum anthracinum R. C. Moran
Blechnum monomorphum R. C. Moran & B. Øllg.
Blechnum obtusum R. C. Moran
10 *Bolbitis occidentalis* R. C. Moran
Bolbitis riparia R. C. Moran & B. Øllg.
Bolbitis simplex R. C. Moran

Callipteris andina L. Pacheco & R. C. Moran
Callipteris stolzei L. Pacheco & R. C. Moran
Callipteris ribae L. Pacheco & R. C. Moran
Campyloneurum atlanticum R. C. Moran & Labiak.
Campyloneurum atosquamatum R. C. Moran, B. León & Labiak
Campyloneurum castaneum R. C. Moran & Labiak
Campyloneurum convexum R. C. Moran & Labiak.
20*Campyloneurum filiforme* R. C. Moran & Labiak
Campyloneurum jamaicense R. C. Moran & Labiak
Campyloneurum parvisquama R. C. Moran & Labiak
Campyloneurum pichinchae R. C. Moran & Labiak
Cyathea amazonica R. C. Moran
Cyathea halonata R. C. Moran & B. Øllg.
Cyathea hemiepiphytica R. C. Moran
Cyathea palaciosii R. C. Moran
Cyathea punctata R. C. Moran & B. Øllg.
Cyathea tortuosa R. C. Moran
30*Cyathea werffii* R. C. Moran
Cystopteris ×wagneri R. C. Moran
Elaphoglossum anthracinum A. Vasco, Mickel & R. C. Moran
Elaphoglossum atehortuae F. B. Matos & R. C. Moran
Elaphoglossum blepharis A. Vasco, Mickel & R. C. Moran
Elaphoglossum catenatum F.B.Matos & R.C.Moran
Elaphoglossum clathratum F. B. Matos & R. C. Moran
Elaphoglossum mickeliorum F. B. Matos & R. C. Moran
Elaphoglossum minutissimum R. C. Moran & Mickel
Elaphoglossum miocenicum Lóriga et al. [fossil]
40*Elaphoglossum neglectum* F. B. Matos & R. C. Moran
Elaphoglossum rhomboideum A. Vasco, Mickel & R. C. Moran
Elaphoglossum rosettum R. C. Moran & Mickel
Elaphoglossum semisubulatum R. C. Moran & Mickel
Goniopteris deltata S. Fawc., R. C. Moran & A. R. Sm.
Goniopteris yanachagae S. Fawc., R. C. Moran & A. R. Sm.
Hecistopteris pinnatifida R. C. Moran & B. Øllg.
Hymenophyllum hemidimorphum R. C. Moran & B. Øllg.
Hymenophyllum iwatsukii F. Herrera et al. [fossil]
Hypolepis trichobacilliformis R. C. Moran
50*Lellingeria hirsuta* A. R. Sm. & R. C. Moran
Lellingeria laxifolia A. R. Sm. & R. C. Moran
Lellingeria pendulina A. R. Sm. & R. C. Moran
Lomariopsis ×farrarii R. C. Moran & J. E. Watkins
Lycopodium hickeyi W. H. Wagner, Beitel & R. C. Moran
Megalastrum albidum R. C. Moran, J. Prado & Labiak
Megalastrum angustum R. C. Moran, J. Prado & Labiak
Megalastrum apicale R. C. Moran & J. Prado
Megalastrum brevipubens R. C. Moran, J. Prado & Labiak
Megalastrum clathratum R. C. Moran, J. Prado & Sundue

- 60** *Megalastrum costipubens* R. C. Moran & J. Prado
Megalastrum decompositum R. C. Moran, J. Prado & Sundue
Megalastrum fimbriatum R. C. Moran, J. Prado & Sundue
Megalastrum fugaceum R. C. Moran, J. Prado & Sundue
Megalastrum galapagense R. C. Moran, J. Prado & Sundue
Megalastrum glabrum R. C. Moran & J. Prado
Megalastrum gompholepis R. C. Moran & J. Prado
Megalastrum indusiatum R. C. Moran, J. Prado & Labiak
Megalastrum insigne R. C. Moran, J. Prado & Sundue
Megalastrum intermedium R. C. Moran & J. Prado
70 *Megalastrum littorale* R. C. Moran, J. Prado & Labiak
Megalastrum longiglandulosum R. C. Moran & J. Prado
Megalastrum masafuerae Sundue, Rouhan & R. C. Moran
Megalastrum mexicanum R. C. Moran & J. Prado
Megalastrum miscellum R. C. Moran, J. Prado & Sundue
Megalastrum nanum R. C. Moran, J. Prado & Sundue
Megalastrum nigromarginatum R. C. Moran, J. Prado & Sundue
Megalastrum obtusum R. C. Moran, J. Prado & Sundue
Megalastrum oellgaardii R. C. Moran, J. Prado & Sundue
Megalastrum oreophilum R. C. Moran, J. Prado & Sundue
80 *Megalastrum organense* R. C. Moran, J. Prado & Labiak
Megalastrum peregrinum Sundue, Rouhan & R. C. Moran
Megalastrum peruvianum R. C. Moran, J. Prado & Sundue
Megalastrum polybotryoides R. C. Moran, J. Prado & Sundue
Megalastrum praetermissum R. C. Moran, J. Prado & Sundue
Megalastrum pubirhachis R. C. Moran, J. Prado & Sundue
Megalastrum retrorsum R. C. Moran, J. Prado & Labiak
Megalastrum rhachisquamatum R. C. Moran, J. Prado & Sundue
Megalastrum sparsipilosum R. C. Moran & J. Prado
Megalastrum substrigosum R. C. Moran, J. Prado & Labiak
90 *Megalastrum subtile* R. C. Moran, J. Prado & Sundue
Megalastrum taafense Rouhan, Sundue & R. C. Moran
Megalastrum tepuiense R. C. Moran, J. Prado & Sundue
Mickelia ×atrans R. C. Moran, Labiak & Sundue
Mickelia furcata R. C. Moran, Labiak & Sundue
Mickelia pradoi R. C. Moran, Labiak & Sundue
Pleopeltis coenosora R. C. Moran
Polybotrya aequatoriana R. C. Moran
Polybotrya alata R. C. Moran
Polybotrya appressa R. C. Moran
100 *Polybotrya gomezii* R. C. Moran
Polybotrya hickeyi R. C. Moran
Polybotrya latisquamosa R. C. Moran
Polybotrya puberulenta R. C. Moran
Polybotrya sessilisora R. C. Moran
Polybotrya stolzei R. C. Moran
Polypodium fayorum R. C. Moran B. Øllg.

Polypodium latissimum R. C. Moran & B. Øllg.
Polystichopsis puberula Prado & R. C. Moran
Polystichopsis × *sanchezii* Prado & R. C. Moran
110 *Saccoloma laxum* R. C. Moran & B. Øllg.
Salpichlaena thalassica Grayum & R. C. Moran
Serpocaulon xrojasianum J. M. Chaves, R. C. Moran & F. Oviedo
Tectaria acerifolia R. C. Moran
Thyrsopteris cretacea C. X. Li & R. C. Moran [fossil]
Trichomanes paucisorum R. C. Moran & B. Øllg.
Trichomanes resinosum R. C. Moran
Triplophyllum boliviense J. Prado & R. C. Moran
Triplophyllum chochoense J. Prado & R. C. Moran
Triplophyllum glabrum J. Prado & R. C. Moran