

# NYBG

## New York Botanical Garden Science publications (2020-2023)

Updated: May 2023

(NYBG authors shown in bold)

### 2023

1. Fritsch, P.W., **Armstrong, K.E.**, Aung, M.M. & Lu, L. 2023. Gaultheria (Ericaceae) of Myanmar: an updated species list for the country, a new species, and a new species combination. Phytotaxa Published online 3 May 2023. doi.org/10.11646/phytotaxa.595.1.3
2. Kelso, N., **G.M. Plunkett**, P. Dovo, C.B. Paul, K.D. Harrison, and **M.J. Balick**. 2023. The palolo worm as a cornerstone of Pacific ecological time-reckoning. Ethnobiology Letters 14(1): 24-35.
3. **Daly, D. C.** 2023. A new and rare species of Protium from Rondônia, Brazil. Studies in neotropical Burseraceae XXXI. Brittonia. <https://doi.org/10.1007/s12228-023-09749-9>
4. Casanova, M.T. & **K.G. Karol**. 2023. Charophytes of Australia's Northern Territory. I Tribe Chareae (Leonh.) Zaneveld. Aust. Syst. Bot. 36: 38-79. doi:10.1071/SB22023
5. Holzhausen A., P. Nowak, A. Ballot, R. Becker, J. Gebert, T. Gregor, **K.G. Karol**, E. Lambert, W. Pérez, U. Raabe, S.C. Schneider, N. Stewart, K. van de Weyer, V. Wilde & H. Schubert. 2023. Plastid DNA sequences and oospore characters of some European species of Tolypella section Tolypella (Characeae) identify five clusters, including one new cryptic Tolypella species from the Mediterranean island Sardinia, but they do not coincide with current morphological descriptions. Front. Plant Sci. 14: doi.org/10.3389/fpls.2023.1096181
6. Hoffman, J.R., **K.G. Karol**, Y. Ohmura, C.S. Pogoda, K.G. Keepers, R.T. McMullin & **J.C. Lendemer**. 2023. Mitochondrial genomics in the iconic reindeer lichens: architecture, variation and synteny across multiple evolutionary scales. *Mycologia*.<https://doi.org/10.1080/00275514.2022.2157665> (in press)
7. Asher, O.A., J. Howieson and **J.C. Lendemer**. 2023. A new perspective on the macrolichen genus Platismatia (Parmeliaceae, Ascomycota) based on molecular and phenotypic data. The Bryologist 126(1): 1–18. [effectively published online 20 January 2023].
8. **Lendemer, J.C.** and J. Hollinger. 2023. Schadonia saulskellyana (Pilocarpaceae; Lichenized Ascomycetes) an unusual new species endemic to the southern Appalachian Mountains of eastern North America. The Bryologist 126(1): 111–128. [effectively published online 20 February 2023].
9. Stewart, R.D., J.A.R. Clugston, J. Williamson, H.J. Niemann, **D.P. Little**, M. van der Bank. 2023. Species relationships and phylogenetic diversity of the African Genus *Encephalartos* Lehm. (Zamiaceae). South African Journal of Botany 152 (2023): 165-173.
10. M.E. Mabry; Bagavathiannan, M.V.; Bullock, J.M.; Wang, H.; Caicedo, A.L.; Dabney, C.J.; Drummond, E.B.M; Frawley, E.; Gressel, J.; Husband, B.C.; Lawton-Rauh, A.; Maggioni, L.; Olsen, K.M.; Pandolfo, C.; Pires, J.C.; Pisias, M.T.; Razifard, H.; Soltis, D.E.; Soltis, P.S.; Tillería, S; Ureta, S.; Warschefsky, E.; **McAlvay, A.C.** Open questions in crop ferality: where are we coming from and where are we going? Plants People Planet. 5(2).
11. C.G. Armstrong; Lyons, N.; **McAlvay, A.C.**; Richie, M.; Lepofsky, D.; Blake, M. Historical Ecology of Forest Garden Management in Ts'msyen Lakhhyuup and Beyond. Ecosystems and

- People. 19(1), 2160823.
12. Mercier, K. P., M. M. Vasconcellos, E. G. A. Martins, J.R. Pirani, **F. A. Michelangeli** & A. C. Carnaval. 2023. Linking environmental stability with genetic diversity and population structure in two Atlantic Forest palm trees. *Journal of Biogeography* 50: 197-208. DOI: 10.1111/jbi.14523
  13. **Michelangeli, F. A.** 2022[2023]. A new species of *Boyania* (Melastomataceae) from Guyana. *Rheedea* 38: 288-294. DOI: 10.22244/rheedea.2022.32.04.04
  14. **Pace, M.C.** 2023. Independent origins of *Spiranthes* ×*kapnosperia* (Orchidaceae) and their nomenclatural implications. *PhytoKeys*, 226: 89–100. <https://doi.org/10.3897/phytokeys.226.100062>
  15. Kelso, N., **G.M. Plunkett**, P. Dovo, C.B. Paul, K.D. Harrison, and **M.J. Balick**. 2023. The palolo worm as a cornerstone of Pacific ecological time-reckoning. *Ethnobiology Letters* 14(1): 24-35.
  16. Falcão, M. J. de A., **Torke, B. M.**, Garcia, G. S., Silva, G. S. da & Mansano, V. de. F. 2023. Taxonomic revision of the neotropical genus *Martiodendron* (Fabaceae: Dialioideae). *Phytotaxa* 578: 11–56.
  17. Gissi, D. S., **Torke, B. M.** Tomazello-Filho, M. & Fortuna-Perez, A. P. 2023 (online). A new species of *Stylosanthes* (Leguminosae - Papilionoideae) from the Chapada das Mesas National Park in Maranhão, Brazil. *Brittonia* (online). DOI: 10.1007/s12228-022-09724-w.

## 2022

1. D.B. Marchant, G. Chen, S. Cai, F. Chen, P. Schafran, J. Jenkins, S. Shu, C. Plott, J. Webber, J. Lovell, G. He, L. Sandor, M. Williams, S. Rajasekar, A. Healey, K. Barry, Y. Zhang, **E. Sessa**, R. Dhakal, P.G. Wolf, A. Harkess, F.-W. Li, C. Rössner, A. Becker, L. Gramzow, D. Xue, Y. Wu, T. Tong, Y. Wang, F. Dai, S. Hua, H. Wang, S. Xu, F. Xu, H. Duan, G. Theißen, M. McKain, Z. Li, M.T.W. McKibben, M.S. Barker, R.J. Schmitz, **D.W. Stevenson**, C. Zumajo-Cardona, **B.A. Ambrose**, J. H. Leebens-Mack, J. Grimwood, J. Schmutz, P.S. Soltis, D.E. Soltis, Z.-H. Chen. Ancient yet dynamic: The evolution of a fern genome. 2022. *Nature Plants*. <https://doi.org/10.1038/s41477-022-01226-7>
2. C. Zumajo-Cardona and **B.A. Ambrose** (2022) Fleshy or dry: Transcriptome analyses reveal the genetic mechanisms underlying bract development in *Ephedra*. *EvoDevo* 13:10. <https://doi.org/10.1186/s13227-022-00195-4>
3. Elissa S. Sorojsrisom, Benjamin C. Haller, **Barbara Ambrose**, Deren Eaton (2022) Selection on the Gametophyte: Modeling alteration of generation in plants. *Appl. Plant Sci.* 10e11472. <https://doi.org/10.1002/aps3.11472>
4. C. Rodríguez-Pelayo, **B.A. Ambrose**, A. Vasco Gutiérrez, J. F. Alzate, and N. Pabón-Mora (2022) Tracking ancestral flowering integrators: Evolution of *PEBP* genes and comparative expression analyses in lycophytes and ferns. *International Journal of Plant Sciences* 183: 251-267. <https://doi.org/10.1086/719575> \*May2022 *IJPS* cover <https://www.journals.uchicago.edu/doi/abs/10.1086/720479>
5. Riccardo de Lutio, **John Y. Park**, **Kimberly A. Watson**, Stefano D'Aronco, Jan D. Wegner, Jan J. Wieringa, Melissa Tulig, Richard L. Pyle, Timothy J. Gallaher, Gillian Brown, Gordon Guymmer, Andrew Franks, Dhahara Ranatunga, Yumiko Baba, Serge J. Belongie, **Fabián A. Michelangeli**, **Barbara A. Ambrose** and **Damon P. Little** (2022) The Herbarium 2021 Half-Earth Challenge Dataset and Machine Learning Competition. *Frontiers in Plant Science* 12:787127. doi: 10.3389/fpls.2021.787127
6. C. Rodríguez-Pelayo, **B.A. Ambrose**, A. Vasco Gutiérrez, J.F. Alzate, N. Pabón-Mora. (2022) Evolution and expression of *LEAFY* genes in ferns and lycophytes. *EvoDevo* 13:2.

<https://doi.org/10.1186/s13227-021-00188-9>

7. E. Mendelson, C. Zumajo-Cardona, and **B.A. Ambrose** (2022) What is a leaf? *Frontiers for Young Minds: Understanding biodiversity*. 10:659623. Doi: 10.3389/frym.2022.659623
8. **Araújo J.P.M.**, Lebert B.M., Vermeulen S., Brachmann A., Ohm R.A., Evans H. C., de Bekker, C. (2022). Masters of the manipulator: two new hypocrealean genera, *Niveomyces* (Cordycipitaceae) and *Torrubiellomyces* (Ophiocordycipitaceae), parasitic on the zombie ant fungus *Ophiocordyceps camponoti-floridani*. *Persoonia* 49: 171–194. (IF = 11.256).  
<https://www.ingentaconnect.com/content/nhn/pimj/pre-prints/content-nbc-persoonia-0645>
9. Mendes-Pereira T., **Araújo J.P.M.**, Mendes F.C., Fonseca E.O., Alves J.E.R., Sobczak J.F. & Góes-Neto, A. (2022). *Gibellula aurea* sp. nov. (Ascomycota, Cordycipitaceae): a new golden spider-devouring fungus from a Brazilian Atlantic Rainforest. *Phytotaxa*. (IF = 1.171)
10. **Araújo J.P.M.**, Li Y., Duong T.A., Smith M. E., Adams S. & Hulcr J. (2022). Four New Species of *Harringtonia*: Unravelling the Laurel Wilt Fungal Genus. *Journal of Fungi*. 8: 613 (IF = 5.816)
11. **Araújo, J.P.M.**, Li, Y., Six, D., Rajchenberg, M., Smith, M.E., Johnson, A.J., Klepzig, K.D., Adans, S., Crous, P.W., Leal-Dutra, C., Skelton, S. Adans, J., Hulcr, J. (2022). Diversity and Evolution of *Entomocorticium*, a genus of bark beetle fungal symbionts derived from free-living, wood rotting *Peniophora*. *Journal of Fungi* 7: 1–26. (IF = 5.816)
12. Randriarisoa, A., Naciri, Y., **Armstrong, K.E.**, Boluda, C., Daffreville, S. & Gautier, L. 2022. A genus sinks, another one emerges: Generic circumscription within subtribe *Manilkarinae* (Sapotaceae). *Taxon*. Published online 31 December 2022. <https://doi.org/10.1002/tax.12863>
13. Ling, T.C., Inta, A., **Armstrong, K.E.**, **Little, D.P.**, Tiansawat, P., Yang, Y.P., Phokasem, P., Tuang, Z.K., Sinpoo, C., & Disayathanoowat, T. 2022. Traditional Knowledge of Textile Dyeing Plants: A Case Study in the Chin Ethnic Group of Western Myanmar. *Diversity*. 14(12), 1065; <https://doi.org/10.3390/d14121065>
14. Wood, J.R.I., Nwe, T.Y. & **Armstrong K.E.** 2022. Two new species of *Staurogyne* (Acanthaceae) from northern Myanmar. *Kew Bulletin*. Published online 10 August 2022. doi:10.1007/S12225-022-10042-3
15. Low, Y.W., Rajaraman, S, Tomlin, C.M., Ahmad, J.A., Ardi, W.H., **Armstrong, K.**, Athen, P., Berhaman, A., Bone. R.E., Cheek, M., Cho, N.R.W., Choo, L.M., Cowie, I.D., Crayn, D., Fleck, S., Ford, A.J., Forster, P.I., Girmansyah, D., Goyder, D.J., Gray, B., Heatubun, C.D., Ibrahim, A., Ibrahim, B., Jayasinghe, H.D., Kalat, M.A, Kathriarachchi, H.S., Kintamani, E., Koh, S.L., Lai, J.T.K., Lee, S.M.L., Leong, P.K.F., Lim, W.H., Lum, S.K.Y., Mahyuni, R., McDonald, W.J.F., Metali, F., Mustaqim, W.A., Naiki, A., Ngo, K.M., Niissalo, M., Ranasinghe, S., Repin, R., Rustiami, H., Simbiak, V.I., Sukri, R.S., Sunarti, S., Trethowan, L.A., Trias-Blasi, A., Vasconcelos, T.N.C., Wanma, J.F., Widodo, P., Wijesundara, D.S.A., Worboys, S., Yap, J.W., Yong, K.T., Khew, G.S.W., Salojarvi, J., Michael, T.P., Middleton, D.J., Burslem, D.F.R.P., Lindqvist, C., Lucas, E.J., Albert, V.A.. 2022. Genomic insights into rapid speciation within the world’s largest tree genus. *Nature Communications* Published online 12 September 2022.  
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16. Tanaka, N., Ohi-Toma, T, Suksathan, P., Aung, M. M., Poulsen, A.D. & **Armstrong, K.E.** 2022. *Myanmaranthus roseoflorus*, A new genus and species of Marantaceae from Myanmar. *Journal of Japanese Botany* 97(4): 187–196.
17. Wood, J.R.I., Aung M. M., Wells, T. & **Armstrong K.** 2021. *Strobilanthes Blume* (Acanthaceae) in Myanmar, a new species and an updated checklist. *Kew Bulletin*. Published on-line June 15, 2022. doi:10.1007/s12225-022-10033-4
18. Sweeney, P.W., Nwe, T.Y. & **Armstrong K. E.** 2022. *Garcinia yaatapsap* (Clusiaceae), a new species from northern Myanmar. *Phytotaxa* 545 (2): 121–127. doi:10.11646/phytotaxa.545.2.1
19. Tong, Y.H, Fritsch, P., Tan, Y.H., Aung, M.M., Yang, B, & **Armstrong, K.** 2022. Novelties in

- Myanmar Agapetes (Ericaceae) with an updated checklist of species from the country. *Nordic Journal of Botany*. Published online 4 March 2022. doi: 10.1111/njb.034961–14
20. Arnason, J. V. Cal, T. Pesek, R. Awad, N. Bourbonnais-Spear, S. Collins, M. Otarola-Rojas, B. Walshe-Roussel, P. Audent, C. Anh Ta, **M. Balick**, and J. Ferrier. 2022. A review of ethnobotany and ethnopharmacology of traditional medicines used by Q’eqchi’ Maya Healers of Xna’ajeb’ aj Ralch’o’och, Belize. *Botany (Canadian Science Publishing)* 100:219-230.  
<http://dx.doi.org/10.1139/cjb-2021-0069>
  21. **Plunkett, G.M.**, T.A. Ranker, C. Sam and **M.J. Balick**. 2022. Towards a checklist of the Vascular Flora of Vanuatu. *Candollea* 77(1):105-118.
  22. **Balick, M.J.**, K.D. Harrison, N. Kelso, R. Neriam, J. Noar, **G.M. Plunkett**, D. M. Ramik and J-P Wahe. 2022. Weather magic as environmental knowledge in southern Vanuatu. *Journal of Ethnobiology* 42(4): 383-389.
  23. Ranker, T., **M. Balick**, **G. Plunkett**, K. D. Harrison, J. P. Wahe and M. Wahe. 2022. Ethnobotany and vernacular names of the lycophytes and ferns of Tafea Province, Vanuatu. *American Fern Journal* 112(3):143-177.
  24. **Daly, D. C.**, R. O. Perdiz, P. V. A. Fine, G. Damasco, M. C. Martínez-Habibe, & L. Calvillo-Canadell 2022. A review of Neotropical Burseraceae. *Brazilian Journal of Botany* 45.  
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  25. Silva Luz, C. L., J. D. Mitchell, **D. C. Daly**, C. Bitencourt, P. M. Oliveira Pierre, S. K. Pell, & J. R. Pirani. 2022. Hidden Species of Anacardiaceae in the Andean cloud forests: A revision of Schinus section Myrtifolia. *Systematic Botany* 47:1031-1064  
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  27. Ke, B-F., G-J. Wang, P.H. Labiak, G. Rouhan, Goflag Consortium, C-W. Chen, L. Shepherd, D.J. Ohlsen, M.A. Renner, **K.G. Karol**, F-W. Li & L-Y. Kuo. 2022. Systematics and plastome evolution in Schizaeaceae. *Front. Plant Sci.* 13: 885501. doi: 10.3389/fpls.2022.885501
  28. Allen, J.L. and **J.C. Lendemer**. 2022. A call to reconceptualize lichen symbioses. *Trends in Ecology and Evolution*: 10.1016/j.tree.2022.03.004. [effectively published online 6 April 2022].
  29. Curtis, T. and **J.C. Lendemer**. 2022. A new species of Halecania (Leprocaulaceae, Lecanoromycetes) from eastern North America. *Journal of the Torrey Botanical Society* 149(1): 79–85. [effectively published online 28 March 2022].
  30. Curtis, T. and **J.C. Lendemer**. 2022b. Catillaria fungoides (Catillariaceae; Lecanoromycetes) an inconspicuous crustose lichen previously overlooked in eastern North America. *Castanea* 87(1): 12–19. [effectively published online 15 June 2022].
  31. Egbert, S., J.R. Hoffman, R.T. McMullin, **J.C. Lendemer** and J. Sorensen. 2022. Unraveling usnic acid: A comparison of biosynthetic gene clusters between two reindeer lichen (*Cladonia rangiferina* and *C. uncialis*). *Fungal Biology* 126: 697–706. [effectively published online 27 August 2022].
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  33. **Lendemer, J.C.**, F. Bungartz, C.A. Morse and E.A. Tripp. 2022. *Sarcogyne similis* (Acarosporaceae) produces psoromic acid and is confirmed to be widespread in North America. *The Bryologist* 125(1): 91–101. [effectively published online 3 February 2022].
  34. **Lendemer, J.C.** and R.T. McMullin. 2022. Lectotypification of the threatened endemic Appalachian lichen *Alectoria fallacina*. *Taxon* 71(5): 1077–1083. [effectively published online 25

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35. **Lendemer, J.C.** and D. Stone. 2022. *Leptogium stancookii*, a new name for the western North American lichen referred to as *L. cookii* whose type corresponds to *L. saturninum* s. str. *The Lichenologist* 54(1): 85–86. [effectively published online 16 February 2022].
36. Mueller, G.M., K.M. Cunha, T.W. May, J.L. Allen, J.R.S. Westrip, C. Canteiro, D.H. Costa-Rezende, E.R. Drechsler-Santos, A.M. Vasco-Palacios, A.M. Ainsworth, G. Alves-Silva, F. Bungartz, A. Chandler, S.C. Gonçalves, I. Krisai-Greilhuber, R. Iršénaitė, J.B. Jordal, T. Kosmann, **J.C. Lendemer**, R.T. McMullin, A. Mešić, V. Motato-Vásquez, Y. Ohmura, R. Reese Næsborg, C. Perini, I. Saar, D. Simijaca, R. Yahr and A. Dahlberg. 2022. What do the first 597 Global Fungal Red List assessments tell us about the threat status of fungi? *Diversity* 14: 736. [effectively published online 7 September 2022].
37. Prado, J., R.Y. Hirai, **J.C. Lendemer** and R.C. Moran. 2022. (151) Proposal to add the concept of “typotype” to the Code. *Taxon* 71(3): 708. [effectively published 4 June 2022].
38. Ward, E., M. Duguid, S. Kuebbing, **J.C. Lendemer** and M. Bradford. 2022. The functional role of ericoid mycorrhizal plants and fungi on carbon and nitrogen dynamics in forests. *New Phytologist* 235(5): 1701–1718. [effectively published online 15 June 2022].
39. Ling, T.C. A. Inta, **K.E. Armstrong**, **D.P. Little**, P. Tiansawat, Y.–P. Yang, P. Phokasem, K.Z. Tuang, C. Sinpoo, T. Disayathanoowat. 2022. Traditional knowledge of textile dyeing plants: a case study in the Chin ethnic group of northwestern Myanmar. *Diversity* 14: 1065.
40. de Lutio, R., J.Y. Park, **K.A. Watson**, S. D’Aronco, J.D. Wegner, J.J. Wieringa, M. Tulig, R.L. Pyle, T.J. Gallaher, G. Brown, G. Guymmer, A. Franks, D. Ranatunga, Y. Baba, S.J. Belongie, **F.A. Michelangeli**, **B.A. Ambrose**, and **D.P. Little**. 2022. The Herbarium 2021 Half–Earth challenge dataset and machine learning competition. *Frontiers in Plant Science* 12: 787127.
41. **A.C. McAlvay**; DiPaola, A.; D’Andrea, A.C.; Ruelle, M.; Mosulishvili, M.; Halstead, P.; Power, A.G.. Cereal species mixtures: an ancient practice with potential for climate resilience. *A review. Agronomy for Sustainable Development*. 42(5), pp. 1-17.
42. M.T. Pisias, Bakala, S., **McAlvay, A.C.**, Mabry, M.E., Birchler, J.A., Yang, B., Pires, J.C. Prospects of Feral Crop De Novo Re-Domestication. *Plant and Cell Physiology*. pcac072. <https://doi.org/10.1093/pcp/pcac072>
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45. Bécquer, E. R, T. Bochorny, M. Gavrutenko & **F. A. Michelangeli**. 2022. A revision of the “basal–axial placentation clade” of Miconieae, the newly erected Miconia section Liogieria (Melastomataceae: Miconieae) from the Greater Antilles. *Willdenowia* 52: 387-432. <https://doi.org/10.3372/wi.52.52307>
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48. Judd, W. S., Majure, L. C., **Michelangeli, F. A.**, Goldenberg, R., Almeda, F., Penneys, D. S., Stone, R. D. 2022. Morphological variability within Melastomataceae (Myrtales), including a discussion of associated terminology. Ch 3. In: Goldenberg, R., **Michelangeli, F. A.** & Almeda, F. (eds). Systematics, Evolution, and Ecology of Melastomataceae. Pp 45-85. Springer. DOI: 10.1007/978-3-030-99742-7\_3
  49. Reginato, M., Almeda, F., **Michelangeli, F. A.**, Goldenberg, R., Fritsch, P. W., Stone, R. D., Penneys, D. S. 2022. Historical biogeography of Melastomataceae. Ch. 4. In: Goldenberg, R., **Michelangeli, F. A.** & Almeda, F. (eds). Systematics, Evolution, and Ecology of Melastomataceae. Pp. 87-105. Springer. DOI: 10.1007/978-3-030-99742-7\_4
  50. Penneys, D. S., Almeda, F., Reginato, M., **Michelangeli, F. A.**, Goldenberg, R. Fritsch, P. W., Stone, R. D. 2022. A new Melastomataceae classification informed by molecular phylogenetics and morphology. Ch. 5. In: Goldenberg, R., **Michelangeli, F. A.** & Almeda, F. (eds). Systematics, Evolution, and Ecology of Melastomataceae. Pp 109-165. Springer. DOI: 10.1007/978-3-030-99742-7\_5
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