

NYBG

New York Botanical Garden
Science publications (2020-2021)

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(NYBG authors shown in bold)

2021

1. **Zumajo-Cardona, C., D.P. Little, D. Stevenson, B.A. Ambrose.** 2021. Expression analyses in *Ginkgo biloba* provide new insights into the evolution and development of the seed. *Scientific Reports* 11:21995
2. D. Paolo, G. Orozco-Arroyo, L. Rotasperi, S. Masiero, L. Colombo, S. de Folter, **B. A. Ambrose**, E. Caporali, I. Ezquer, and C. Mizzotti (2021) Genetic interaction of SEEDSTICK GORDITA and AXUN RESPONSE FACTOR 2 genes during seed development. *Genes* 12(8): 1189. Doi:10.3390/genes12081189
3. R. de Lutio, **D. Little, B. Ambrose**, and S. Belongie (2021) The Herbarium 2021 half-earth challenge dataset. arXiv:2105.13808v1 <https://arxiv.org/pdf/2105.13808.pdf>
4. **C. Zumajo-Cardona** and **B. A. Ambrose** (2021) Deciphering the evolution of the ovule genetic network through expression analysis in *Gnetum gnemon*. *Annals of Botany*. 128:217-230. Doi: [10.1093/aob/mcab059](https://doi.org/10.1093/aob/mcab059)**Zumajo-Cardona**
5. **Ambrose, B. A., T.L. Smalls**, and **C. Zumajo-Cardona.** (2021). All type II classic MADS-box genes in the lycophyte *Selaginella moellendorffii* are broadly yet discretely expressed in vegetative and reproductive tissues. *Evolution & Development*.23: 215-230. <https://doi.org/10.1111/ede.12375>
6. **C. Zumajo-Cardona**, N. Pabón-Mora, and **B. A. Ambrose.** 2021. The evolution of *euAPETALA2* genes in vascular plants: from plesiomorphic roles in sporangia to acquired functions in ovules and fruits. *Molecular Biology and Evolution*. 38: 2319-2336. doi:10.1093/molbev/msab027
7. H. Suárez-Baron, J. F. Alzate, F. González, S. Pelaz, **B. A. Ambrose**, and N. Pabón-Mora. 2021. Gene expression underlying floral epidermal specialization in *Aristolochia fimbriata* (Aristolochiaceae). *Annals of Botany*. 127: 749-764. doi: [10.1093/aob/mcab033](https://doi.org/10.1093/aob/mcab033)
8. B. A. Berger, **B. A. Ambrose**, J. Tong, and D.G. Howarth. 2021. Flower Development in *Fedia graciliflora* and *Valerianella locusta* (Valerianaceae). *Flora* 275: 151754. doi:[10.1016/j.flora.2020.151754](https://doi.org/10.1016/j.flora.2020.151754)
9. B. Hernández- Hernández, R. Tapia-Lopez, **B.A. Ambrose**, and A. Vasco. 2021. R2R3-MYB gene evolution in plants, incorporating ferns into the story. *International Journal of Plant Sciences* 182: 1-8 <https://doi.org/10.1086/710579>
10. Bartholomew B., **Armstrong K. E.**, Rong L. & Fritsch, P.W. 2021. *Perrotettia taronensis* B.M.Barthol. & K.Armstr., sp. Nov. (Dipentodontaceae), a new species from northwestern Yunnan Province, China and northern Kachin State, Myanmar and a re-examination of the Asian and Australasian taxa of *Perrotettia*. *PhytoKeys*.183: 67-76. Doi:10.3897/phytokeys.183.71505
11. **Atha, D. & L. Paradiso.** 2021. New York City EcoFlora EcoQuest, CLIMBING THE WALLS. *Mitchelliana* 32(2):9–12.
12. Liu, X., Y. Wang, V. Alizade, M. Khutsishvili, **D. Atha**, R.P. Borris, B.R. Clark. Cruciasides C-G, monoterpenoid glycosides from *Cruciata articulata*. *Phytochemistry* 189, September 2021. <https://doi.org/10.1016/j.phytochem.2021.112821>.

13. **Atha, D.**, E. Levine, J.F. Gaskin, and C. Castillo. 2021. First report of *Mummenhoffia alliacea* (Brassicaceae) for New York. *Phytoneuron* 2021-26: 1–4. Published 7 June 2021. ISSN 2153 733X
14. **Atha, D.**, L. Lewis, S. Wolkenberg, D. Werier, and D.C. Albach. 2021. First report of *Veronica sublobata* (Plantaginaceae) for New York. *Phytoneuron* 2021-27: 1–5. Published 7 June 2021. ISSN 2153 733X
15. Dahmer, S. and **M. Balick**. 2021. Cannabis Ethnomedicine, pp. 9-38, in *Understanding Medical Cannabis: Critical Issues and Perspectives for Human Service Professionals*, J. Levine (Ed.), Routledge, New York.
16. **Boggess, L. M.**, G. R. Harrison & G. Bishop. 2021. Impacts of rock climbing on cliff vegetation: A methods review and best practices. *Applied Vegetation Science* 24:e12583.
17. Melo, M. F. F., **D. C. Daly**, J. U. M. Santos, & K. C. Silva. 2021. Three new species of *Trattinnickia*. *Studies in Neotropical Burseraceae XXX. Brittonia* 73: 343-352. DOI: <https://doi.org/10.1007/s12228-021-09666-9>
18. Damasco, G. P. V. A. Fine, C. Baraloto, A. Vicentini, **D.C. Daly**, B. G. Baldwin. 2021. Revisiting the hyperdominance of Neotropical tree species under a taxonomic, functional and evolutionary perspective. *Sci Rep* 11, 9585. <https://doi.org/10.1038/s41598-021-88417-y>
19. Mendes-Silva, I. A. Q. Lobao, **D. C. Daly**, & A. L. Peixoto. 2021. Flora of Rondonia, Brazil: *Malmeeae* (Annonaceae). *Rodriguesia*. <https://doi.org/10.1590/2175-7860202172094>
20. Liu, J.-W., Z.W. Ge, E. Horak, A. Vizzini, **R.E. Halling**, C.L. Pan, Z.-L. Yang. 2021. Squamanitaceae and three new species of *Squamanita* parasitic on *Amanita* basidiomes. *IMA Fungus* 12: 1-24. (open access: <https://doi.org/10.1186/s43008-021-00057-z>)
21. De Crop, E., L. Delgat, J. Nuytinck, **R.E. Halling**, A. Verbeken. 2021. A short story of nearly everything in *Lactifluus* (Russulaceae). *Fungal Systematics and Evolution* 7: 133-164.
22. Sleith R. S. & K. G. Karol. 2021. Global high-throughput genotyping of organellar genomes reveals the origin and spread of invasive starry stonewort (*Nitellopsis obtusa*). *Biol. Invasions* 23:3471-3482. Doi:10.1007/s10530-021-02591-8
23. Stalter, R., J. Tong and **J. C. Lendemer**. 2021. The flora on the High Line, New York City, New York: A 17-years comparison. *Journal of the Torrey Botanical Society* 148(3): 243-251. [effectively published online 9 September 2021].
24. Prado, J. and **J.C. Lendemer**. 2021. Guidelines for the preliminary evaluation of general nomenclature manuscripts submitted to *Taxon*. *Taxon*: 10.1002/tax.12636. [effectively published online 25 November 2021].
25. **Lendemer, J. C.** and P.W. Clark. 2021. Between a rock and hard place: *Chrysothrix susquehannensis* is more widespread in eastern North America than previously thought. *Opuscula Philolichenum* 20: 81-87. [published online 1 November 2021].
26. **Lendemer, J.C.** and K. Keepers. 2021. *Bacidia despriestiana* (Ramalinaceae), a new species from the southern Appalachian Mountains of eastern North America. *The Bryologist* 124(3): 362-375. [effectively published online July 26 2021].
27. Hollinger J. P. and **J.C. Lendemer**. 2021. *Capronia harrisiana* (Ascomycota, Chaetothyriales), a new lichenicolous species on *Crocodyla aurata* from the southern Appalachian Mountains off southeastern North America. *The Bryologist* 124(4):522-532. [effectively published online 3 November 2021].
28. **Lendemer, J.C.** 2021. Proposed best practices for taxonomic innovations in lichen and allied Fungi: A framework derived from analysis of more than 1,000 new taxa and new combinations. *The Bryologist* 124(1): 90-99. [effectively published online 16 March 2021].

29. England, J.K., **J.C. Lendemer** and E.A. Tripp. 2021. *Rockefellerella crossophylla* (Pannariaceae) rediscovered in Alabama. *Opuscula Philolichenum* 20: 1–6. [effectively published online 18 January 2021].
30. Keepers, K.G., C.S. Pogoda, **J.C. Lendemer**, N.C. Kane & E.A. Tripp. 2021. Author response to Gulnara et al. (2021): “Lichen fungi do not depend on alga for ATP production: A comment on Pogoda et al. (2018)”. *Molecular Ecology*: 10.1111/mec.16053 [published online 12 July 2021].
31. **Lendemer, J.C.** and J. Coyle. 2021[2020]. Dissimilar biodiversity data sets yield congruent patterns and inference in lichens. *Botany* 99(2): 55–67. [effectively published online 25 September 2020].
32. McMullin, R.T., H.R. Dorval, L.J. Gillespie, T.L. Knight, **J.C. Lendemer**, J.R. Maloles & P.C. Sokoloff. 2021. New and interesting Canadian lichens and allied fungi III: Reports from Newfoundland and Labrador, Nova Scotia, Nunavut, Prince Edward Island, Ontario, and Quebec. *Opuscula Philolichenum* 20: 7-18.
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34. Diaz-Silveira, G. L., J. Deutsch, and **D. P. Little**. 2021. DNA Barcode authentication of devil’s claw dietary supplements. *Plants* 10 (10): 2005.
35. **Zumajo-Cardona, C., D.P. Little, D. Stevenson, B.A. Ambrose**. 2021. Expression analyses in *Ginkgo biloba* provide new insights into the evolution and development of the seed. *Scientific Reports* 11:21995.
36. 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. Guymer, A. Franks, D. Ranatunga, Y. Baba, S.J. Belongie, **F.A. Michelangeli, B. A. Ambrose** and **D.P. Little**. 2021. The Herbarium 2021 half-earth challenge dataset and machine learning competition. *Frontiers*. arXiv:2105.13808v1 <https://arxiv.org/pdf/2105.13808.pdf>.
37. **Paradiso L.**, and **D.P. Little**. 2021. Authentication of garlic (*Allium sativum* L.) supplements using a trnL UAA mini-barcode. *Genome* 64 (11): 1021 -1028.
38. **McAlvay, A.C.**, C.G. Armstrong; J. Baker, L. Black Elk, S. Bosco; N. Hanazaki, L. Joseph; T. Martínez, M. Nesbitt, M. Palmer, W.C. Priprá de Almeida, J. Anderson, Z. Asfaw, I. Borokini, E.J. Cano-Contreras, S. Hoyte, M. Hudson, A. Ladio, G. Odonne, S. Peter, J. Wall; S. Wolvertson & **I. Vandebroek**. 2021. Decolonizing institutions, projects, and scholarship in ethnobiology. *Journal of Ethnobiology*. 41(2), pp. 170-191.
39. Poveda, J., P. Velasco, A. de Haro, T.J. Johansen; **A.C. McAlvay**, C. Mollers, J. Mölmann, E. Ordiales, V.M. Rodríguez. 2021. Modification of agronomic and metabolomic parameters in *Brassica oleracea* var. *acephala* divergent selection populations for glucobrassicin content in different environments. *Metabolites*. 11(6), 384.
40. Mabry, M.E.; S.D. Turner-Hissong, E.Y. Gallagher, **A.C. McAlvay**, H. An, P.P. Edger, J.D. Moore, D.A.C. Pink, G.R. Teakle, C.J. Stevens, G. Barker, J. Labate, D.Q. Fuller, R.G. Allaby, T. Beissinger, J.E. Decker, M.A. Gore, J.C. Pires. 2021. The Evolutionary History of Wild, Domesticated, and Feral *Brassica oleracea* (Brassicaceae). *Molecular Biology and Evolution*. msab183
41. Armstrong, C.G., J. Miller, **A.C. McAlvay**, M. Richie & D. Lepofsky. 2021. Functional traits and biodiversity reflect Indigenous Peoples’ Land-Use Legacies in Pacific Northwest Archaeological sites. *Ecology and Society*. 26(2), Art. 6
42. **McAlvay, A. C.**, A. P. Ragsdale, M. E. Mabry, X. Qi, K. A. Bird, P. Velasco, H. An, J. C. Pires & E. Emshwiller. 2021. Brassica rapa domestication: Untangling wild and feral forms and

convergence of crop morphotypes. Molecular Biology and Evolution. Preprint:
<https://www.biorxiv.org/content/10.1101/2021.04.05.438488v1>

43. Poveda, J., P. Velasco, A. de Haro, T.J. Johansen, **A. C. McAlvay**, C. Mollers, J. A. B. Mohlmann, E. Codiales & V. M. Rodriguez. 2021. Agronomic and Metabolomic Side-Effects of a Divergent Selection for indol-3-ylmethylglucosinolate Content in Kale (*Brassica oleracea* var. *acephala*). *Metabolites* 11(6): 384. <https://doi.org/10.3390/metabo11060384>
44. Brail Flora Group (BFG). 2021. Brazilian Flora 2020: Leveraging the power of a collaborative scientific network. *Taxon*. DOI: 10.1002/tax.12640
45. Goldenberg, R. & **F. A. Michelangeli**. 2021. A new species of *Macrocentrum* (Melastomataceae: Merianieae) from Para, Brazil. *Rodriguesia* 72: e02382019. DOI:10.1590/2175-7860202172055.
46. Dellinger, A., R. Perez-Barrales, **F. A. Michelangeli**, D. S. Penneys, D. Fernandez-Fernandez, J. Schonenberger. 2021. Low bee visitation rates explain pollinator shifts to vertebrates in tropical mountains. *New Phytologist* 231: 864-877. DOI: 10.1111/nph.17390.
47. Versiane, A. F., R. Romero, M. Reginato, C. A. D. Welker, **F. A. Michelangeli** & R. Goldenberg. 2021. Phylogenetic analysis of Microlicieae (Melastomataceae), with emphasis on the re-circumscription of the large genus *Microlicia* D. Don. *Botanical Journal of the Linnean Society*. DOI: 10.1093/botlinnean/boab011.
48. Paz, A., J. L. Brown, C. L.O. Cordeiro, J. Aguirre-Santoro, C. Assis, R. C. Amaro, T. Bochner, L. F. Bacci, M. K. Caddah, F. d'Horta, M. Kaehler, M. Lyra, M. Reginato, K. L. Silva-Brandao, A. V. L. Freitas, R. Goldenberg, L. Lohmann, **F. A. Michelangeli**, C. Miyaki, M. T. Rodrigues, T. S. Silva, A. C. Carnaval. 2021. Environmental correlates of taxonomic and phylogenetic diversity in the Atlantic Forest. *Journal of Biogeography* 48: 1377-1391. DOI: 10.1111/jbi.14083.
49. Meyer, F. S., M. Reginato, E. C. Smidt, J. R. de Santiago Gomez, **F. A. Michelangeli** & R. Goldenberg. 2021. Phylogenetic relationships in *Brachyotum* and allies (Melastomataceae, Melastomataceae): a reassessment of the limits of the genera. *Botanical Journal of the Linnean Society*. DOI: 10.1093/botlinnean/boab014.
50. Bochner, T., L. F. Bacci, A. Dellinger, **F. A. Michelangeli**, R. Goldenberg, V. Brito. 2021. Connective appendages in buzz-pollinated flowers: function and biomechanics in the stamens of *Huberia bradeana* (Melastomataceae). *Plant Biology* 23: 556-563. DOI: 10.1111/plb.13244.
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55. Meyer, F. S., M. Reginato, E. C. Smidt, J. R. de Santiago Gomez, **F. A. Michelangeli** & R. Goldenberg. 2021. Phylogenetic relationships in *Brachyotum* and allies (Melastomataceae, Melastomataceae): a reassessment of the limits of the genera. *Botanical Journal of the Linnean Society*. DOI: 10.1093/botlinnean/boab014.
56. Dellinger, A., R. Pérez-Barrales, **F. A. Michelangeli**, D. S. Penneys, D. Fernández-Fernández, J. Schönenberger. Low bee visitation rates explain pollinator shifts to vertebrates in tropical mountains. *New Phytologist*. DOI: 10.1111/nph.17390

57. Bacci, L. F., R. Goldenberg & **F. A. Michelangeli**. 2021. First reports of vivipary in Neotropical Melastomataceae. *International Journal of Plant Sciences* 182: 79-83. DOI: 10.1086/711473.
58. Bochorny, T., L. F. Bacci, A. Dellinger, **F. A. Michelangeli**, R. Goldenberg & V. Brito. 2021. Connective appendages in buzz-pollinated flowers: function and biomechanics in the stamens of *Huberia bradeana* (Melastomataceae). *Plant Biology*. DOI: 10.1111/plb.13244.
59. Guimarães, P. J. F. & **F. A. Michelangeli**. 2021. Nomenclatural notes on Melastomataceae (Melastomataceae). *Phytotaxa* 480: 94-96. DOI: 10.11646/phytotaxa.480.1.10.
60. Fernandez-Hilario, R., R. Goldenberg & **F. A. Michelangeli**. 2021. Taxonomic novelties in *Meriania* (Melastomataceae) from northern Peru. *Nordic Journal of Botany* 39: e02969. DOI: 10.1111/njb.02969.
61. Versiane, A. F., R. Romero, M. Reginato, C. A. D. Welker, **F. A. Michelangeli** & R. Goldenberg. Phylogenetic analysis of Microlicieae (Melastomataceae), with emphasis on the re-circumscription of the large genus *Microlicia* D. Don. 2021. *Botanical Journal of the Linnean Society*. DOI: 10.1093/botlinnean/boab011.
62. Bacci, L. F., M. Reginato, T. Bochorny, **F. A. Michelangeli**, A. A. Amorim & R. Goldenberg. 2021. Biogeographic breaks in the Atlantic Forest: evidence for Oligocene/Miocene diversification in *Bertolonia* (Melastomataceae). *Botanical Journal of the Linnean Society*. DOI: 10.1093/botlinnean/boab099
63. Carmenate-Reyes, W. & **F. A. Michelangeli**. 2021. A checklist of *Henriettea* (Melastomataceae, Henrietteae) in the Antilles, with taxonomic notes and lectotypifications. *Brittonia* 73:410-421. DOI: 10.1007/s12228-021-09678-5.
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66. Prance, G.T., **R. Naczi**, L.G. Lohman. 2021. In remembrance of: Scott A. Mori (1941-2020), *Tropical Botanist Extraordinaire*. *Biotropica* 53: 339-346.
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2020

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