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New York Botanical Garden
Science publications (2020-2021)
Updated: July 2021
(NYBG authors shown in bold)

2021

1. **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. In Press, *Evolution & Development*. **https://doi.org/10.1111/ede.12375**
2. **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. In Press, *Molecular Biology and Evolution*. doi:10.1093/molbev/msab027
3. 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). In Press, *Annals of Botany*. doi: 10.1093/aob/mcab033
4. 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*
5. B. Hérnandez- Hérnandez, 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
6. **Atha, D.** & **L. Paradiso**. 2021. New York City EcoFlora EcoQuest, CLIMBING THE WALLS. Mitchelliana 32(2):9–12.
7. 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.
8. **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
9. **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
10. 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.
11. **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.
12. 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)
13. 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.

14. England, J.K., **J.C. Lendemer** and E.A. Tripp. 2021. *Rockefellera crossophylla* (Pannariaceae) rediscovered in Alabama. *Opuscula Philolichenum* 20: 1–6. [effectively published online 18 January 2021].
15. 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].
16. **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].
17. 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.
18. Ward, E., M. Duguid, S. Kuebbing, **J.C. Lendemer**, R. Warren II and M. Bradford. 2021. Ericoid mycorrhizal shrubs alter the relationship between tree mycorrhizal dominance and soil carbon and nitrogen. *Journal of Ecology*: 10.1111/1365-2745.13734. [published online 23 June 2021].
19. England, J.K., **J.C. Lendemer** and E.A. Tripp. 2021. *Rockefellera crossophylla* (Pannariaceae) rediscovered in Alabama. *Opuscula Philolichenum* 20: 1–6. [effectively published online 18 January 2021].
20. 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. [effectively published online 13 March 2021].
21. 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.
22. **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. Wolverton & **I. Vandebroek**. 2021. Decolonizing institutions, projects, and scholarship in ethnobiology. *Journal of Ethnobiology*. 41(2), pp. 170-191.
23. 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.
24. 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
25. 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
26. **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: Untangeling 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
27. 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-yylmethylglucosinolate Content in Kale (*Brassica oleracea* var. *acephala*). Metabolites 11(6): 384. https://doi.org/10.3390/metabo11060384

28. Goldenberg, R. &. **F. A. Michelangeli**. 2021. A new species of *Macrocentrum* (Melastomataceae: Merianieae) from Para, Brazil. Rodriguesia 72: e02382019. DOI:10.1590/2175-7860202172055.
29. 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.
30. 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.
31. Paz, A., J. L. Brown, C. L.O. Cordeiro, J. Aguirre-Santoro, C. Assis, R. C. Amaro, T. Bochorny, 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.
32. 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, Melastomateae): a reassessment of the limits of the genera. Botanical Journal of the Linnean Society. DOI: 10.1093/botlinnean/boab014.
33. 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 23: 556-563. DOI: 10.1111/plb.13244.
34. 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.
35. Guimaraes, P. J. F. & **F. A. Michelangeli**. 2021. Nomenclatural notes on Melastomateae (Melastomataceae). Phytotaxa 480: 94-96. DOI: 10.11646/phytotaxa.480.1.10. Bacci, L. F., R.
36. Goldenberg & **F. A. Michelangeli**. 2021. First reports of vivipary in Neotropical Melastomataceae. International Journal of Plant Sciences 182: 79-83. DOI: 10.1086/711473.
37. Paz, A., J. L. Brown, C. L.O. Cordeiro, J. Aguirre-Santoro, C. Assis, R. C. Amaro, T. Bochorny, L. F. Bacci, M. K. Caddah, F. d'Horta, M. Kaehler, M. Lyra, M. Reginato, K. L. Silva-Brandão, 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. DOI: 10.1111/jbi.14083.
38. 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, Melastomateae): a reassessment of the limits of the genera. Botanical Journal of the Linnean Society. DOI: 10.1093/botlinnean/boab014.
39. 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
40. 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.
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42. Guimarães, P. J. F. & **F. A. Michelangeli**. 2021. Nomenclatural notes on Melastomateae (Melastomataceae). Phytotaxa 480: 94-96. DOI: 10.11646/phytotaxa.480.1.10.
43. 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.
44. 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.
45. Prance, G.T., **R. Naczi**, L.G. Lohman. 2021. In remembrance of: Scott A. Mori (1941-2020), Tropical Botanist Extraordinaire. Biotropica 53: 339-346.
46. Knapp, W. M., A. Frances, R. Noss, **R. F. C. Naczi**, A. Weakley, G. D. Gann, B. G. Baldwin, J. Miller, P. McIntyre, B. D. Mishler, G. Moore, R. G. Olmstead, A. Strong, K. Kennedy, B. Heidel, D. Gluesenkamp. 2021. Vascular plant extinction in the continental United States and Canada. Conservation Biology 35: 360−368. doi.org/10.1111/cobi.13621
47. Knapp, W. M. and **R. F. C. Naczi**. 2021. Vascular Plants of Maryland, U.S.A.: A comprehensive account of the state's botanical diversity. Smithsonian Contributions to Botany 113: 1-151.
48. Márquez-Corro, J. I., S. Martin-Bravo, P. Jimenez-Mejias, A. L. Hipp, D. Spalink, **R. F. C. Naczi**, E. H. Roalson, M. Luceno, and M. Escudero. 2021. Macroevolutionary insights into sedges (*Carex*: Cyperaceae): The effects of rapid chromosome number evolution on lineage diversification. Journal of Systematics and Evolution https://doi.org/10.1111/jse.12730.
49. Jiménez-Mejías, P., S. Martín-Bravo, J. I. Márquez-Corro, S. Donadío, E. H. Roalson, **R. F. C. Naczi**. 2021. A synopsis of the androgynous species of *Carex* subgenus *Vignea* (Cyperaceae) in South America. Botanical Journal of the Linnean Society 196: 188-220.
50. Roalson, E. H., P. Jiménez-Mejías, A. L. Hipp, C. Benitez-Benitez, L. P. Bruederle, K. Chung, M. Escudero, B. A. Ford, K. Ford, S. Gebauer, B. Gehrke, M. Hahn, M. Q. Hayat, M. H. Hoffmann, S. Jin, S. Kim, I. Larridon, E. Leveille-Boureet, Y. Lu, M. Luceno, E. Maguilla, J. I. Corro, S. Martin-Bravo, T. Masaki, M. Miguez, **R. F. C. Naczi**, A. A. Reznicek, D. Spalink, J. R. Starr, T. Villaverde, M. J. Waterway, K. L. Wilson, S. Zhang. 2021. A framework infrageneric classification of *Carex* (Cyperaceae) and its organizing principles. Journal of Systematics and Evolution https://doi.org/10.1111/jse.12722.
51. **Pace, M.C.** 2021. *Spiranthes bightensis* (Orchidaceae), a new and rare cryptic hybrid species endemic to the U.S. Mid-Atlantic coast. Phytotaxa 498 (3): 159-176.
52. **Schmiege, SC**, BM Buckley, **D Stevenson**, TQ Cuong, Le C Nam, & K L Griffin. 2021. Contrasting physiological traits of shade tolerance in *Pinus* and Podocarpaceae native to a tropical Vietnamese forest: Insight from an aberrant flat-leaved pine. *Tree Physiology* 41: 223-239.
53. Ahlstrand, N. & **D.W. Stevenson** 2021. Retracing origins of exceptional cycads in botanical collections to increase conservation value. Plants, People, Planet 3: 1-5.
54. **Torke, B. M.** & V. F. Mansano. 2021. Swartzieae. *In:* Legume Phylogeny Working Group (LPWG), Andrella, G. C., … B. M. Torke...., et al. (2021). The World Checklist of Vascular Plants (WCVP): Fabaceae, vers. June 2021 (R. Govaerts, ed.). Royal Botanic Gardens, Kew. http://sftp.kew.org/pub/data_collaborations/Fabaceae/DwCA/
55. Oliveira, M. H. V. de, **B. M. Torke** & T. E. Almeida. 2021. An inventory of the ferns and lycophytes of the Lower Tapajos River basin in the Brazilian Amazon reveals collecting biases, sampling gaps, and previously undocumented diversity. Brittonia (online): 1–22. DOI 10.1007/s12228-021-09668-7.

56. **Vandebroek, I.**, D. Picking, J. Tretina, J. West, M. Grizzle, D. Sweil, U. Green & D. Lindsay. 2021. Root Tonics and Resilience: Building Strength, Health, and Heritage in Jamaica. Frontiers in Sustainable Food Systems, volume 5, article 640171. https://doi.org/10.3389/fsufs.2021.640171
57. Dahdouh-Guebas, A. & **I. Vandebroek** I. 2021. Impacts of the COVID-19 pandemic on mobility scholars who participate in international study exchange and research programs. *Ethnobiology and Conservation* 10: 17. doi: 10.15451/ec2021-02-10.17-1-7.

2020

1. Vasco and **B. A. Ambrose**. 2020. Simple and divided leaves in ferns, exploring the genetic basis for leaf morphology differences in the genus *Elaphoglossum* (Dryopteridaceae). *Int. J. Mol. Sci.* 21: 5180. doi:10.3390/ijms21155180
2. R. Cruz, G. Melo-de-Pinna, A. Vasco, J. Prado, and **B. A. Ambrose**. 2020. Class I KNOX is related to determinacy during leaf development of the fern *Mickelia scandens* (Dryopteridaceae)" *Int. J. Mol. Sci.* 21: 4295. https://doi.org/10.3390/ijms21124295
3. N. Pabón-Mora, Y. Madrigal, J. Alzate, **B. Ambrose**, C. Ferrándiz, S. Wanke, C. Neinhuis, and F. Gonzalez. 2020. Class II TCP gene evolution in perianth-bearing Piperales and their contribution to the bilateral calyx in *Aristolochia*. *New Phytologist* 228: 752-769. https://doi.org/10.1111/nph.16719
4. Murray, N.J., Keith, D. A., Duncan, A., Tizard, R., Ferrer-Paris, J., Worthington, T.A., **Armstrong, K.**, Hlaing, N., Htut, W.T., Oo, A.H., Ya, K.Z., Grantham, H. 2020. Myanmar's terrestrial ecosystems: status, threats and conservation opportunities. *Biological Conservation* (in press).
5. Tanaka, N., **Armstrong K.** & Aung, M.M. 2020. Taxonomic studies on Zingiberaceae of Myanmar II: *Curcuma stolonifera* (Subgenus *Eucomate*), a new species from the northwestern region. *Brittonia* DOI 10.1007/s12228-020-09619-8.
6. Murray, N.J. Grantham, H. Keith D & **Armstrong K.E.** *Alpine cliffs and screes* in Murray, N.J., Keith, D.A., Tizard, R., Duncan, A., Htut, W.T., Hlaing, N., Oo, A.H., Ya, K.Z., Grantham, H. (2020) *Threatened Ecosystems of Myanmar: An IUCN Red List of Ecosystems Assessment. Version 1.0*. Wildlife Conservation Society. ISBN: 978-0-9903852-5-7. DOI: 10.19121/2019.Report.37457.
7. **Armstrong, K.E.**, Grantham, H. Tizard, R., Murray N.J. & Keith D.A. *Alpine herbfield* in Murray, N.J., Keith, D.A., Tizard, R., Duncan, A., Htut, W.T., Hlaing, N., Oo, A.H., Ya, K.Z., Grantham, H. (2020) *Threatened Ecosystems of Myanmar: An IUCN Red List of Ecosystems Assessment. Version 1.0*. Wildlife Conservation Society. ISBN: 978-0-9903852-5-7. DOI: 10.19121/2019.Report.37457.
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9. **Armstrong, K.E.**, Grantham, H. & Keith D.A. *Kachin mountain conifer forest* in Murray, N.J., Keith, D.A., Tizard, R., Duncan, A., Htut, W.T., Hlaing, N., Oo, A.H., Ya, K.Z., Grantham, H. (2020) *Threatened Ecosystems of Myanmar: An IUCN Red List of Ecosystems Assessment. Version 1.0*. Wildlife Conservation Society. ISBN: 978-0-9903852-5-7. DOI: 10.19121/2019.Report.37457.
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12. **Armstrong, K.E.** & Grantham, H. *Kachin-Sagaing low elevation evergreen subtropical rainforest* in Murray, N.J., Keith, D.A., Tizard, R., Duncan, A., Htut, W.T., Hlaing, N., Oo, A.H., Ya, K.Z., Grantham, H. (2020) *Threatened Ecosystems of Myanmar: An IUCN Red List of Ecosystems Assessment. Version 1.0*. Wildlife Conservation Society. ISBN: 978-0-9903852-5-7. DOI: 10.19121/2019.Report.37457.
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14. **Armstrong, K.E.** & Grantham , H. *Kachin Hills subtropical rainforest* in Murray, N.J., Keith, D.A., Tizard, R., Duncan, A., Htut, W.T., Hlaing, N., Oo, A.H., Ya, K.Z., Grantham, H. (2020) *Threatened Ecosystems of Myanmar: An IUCN Red List of Ecosystems Assessment. Version 1.0*. Wildlife Conservation Society. ISBN: 978-0-9903852-5-7. DOI: 10.19121/2019.Report.37457.
15. **Atha, D** . 2020. First report of *Aesculus flava* (Sapindaceae) adventive in New York. Phytoneuron 2020-3: 1–2.
16. Hu, B., M. Khutsishvili, G. Fayvush, **D. Atha** and R. Borris. 2020. Phytochemical investigations and antimicrobial activities of *Anchusa azurea* . Chemistry of Natural Compounds 56: 119–121.
17. Hewitt, S.J. and **D. Atha**. 2020. *Phyllanthus tenellus* , Mascarene Island Leaf Flower, growing spontaneously in New York City. New York Flora Association Quarterly Newsletter 31(4): 11–12.
18. Hewitt, S.J., **D. Atha** and D.J. Ringer. 2020. *Descurainia sophia* (L.) Webb ex Prantl (Brassicaceae) rediscovered in New York City after more than 100 years. New York Flora Association Quarterly Newsletter 31(1): 10–12.
19. **Atha, D.** and S. Rall. 2020. First report of *Persicaria posumbu* (Polygonaceae) for North America. Phytoneuron 2020-86: 1–7.
20. **Atha, D.,** S.J. Hewitt and Z. Wang. 2020. First report of *Croton glandulosus* (Euphorbiaceae) for New York. Phytoneuron 2020-87: 1–4.
21. **Atha, D.,** R. Alvarez, K. Chaya, J. Catusco and E. Whitaker. 2020. The spontaneous vascular plant flora of New York's Central Park. Journal of the Torrey Botanical Society 147: 94–116.
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