

NYBG

New York Botanical Garden Science publications (2020-2023)

Updated: January 2023

(NYBG authors shown in bold)

2023

1. 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)
2. 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.
3. 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.
4. 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
5. Kelso, N., **G.M. Plunkett**, P. Dovo, D.M. Ramik, C.B. Paul Vusqal, K.D. Harrison, and **M.J. Balick**. 2023. The palolo worm as a cornerstone of Pacific ecological time-reckoning. *Ethnobotany Letters*, in press.

2022

6. **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>
7. 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>
8. 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>
9. 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

10. 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>
11. 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
12. 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
13. 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
14. 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
15. **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)
16. 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
17. 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>
18. **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. <https://doi.org/10.1007/s40415-021-00765-1>
19. 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].
20. 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].
21. **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].
22. **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].
23. M. Tessler, G. Eshel, A. Narechania, K. Varala, C.W. Nelson, C. Zegar, S.–O. Kolokotronis, **D.Wm. Stevenson**, G. Coruzzi, R. DeSalle, and **D.P. Little**. Submitted. Democratizing phylogenomics: streamlining pipelines using algorithms correlated with tree-building. *Bioinformatics*.
24. 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**. 2022. The Herbarium 2021 Half–Earth challenge dataset and machine learning competition. *Frontiers in Plant Science* 12: 787127.
25. M.T. Piasias, 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>

26. C.G. Armstrong; Earnshaw, J.; and **McAlvay, A.C.** 2022. Coupled archaeological and ecological analyses reveal ancient cultivation and land-use in Nuchatlaht (Nuu-chah-nulth) Territories, in the Pacific Northwest of North America. *Journal of Archaeological Science*. 143, 105611. <https://doi.org/10.1016/j.jas.2022.105611>
27. Andualem, A.; T. Legesse; A. Nebiyu; A. Dejen; F. Hailu; Z. Asfaw; M. Ruelle; **A.C. McAlvay**; A.G. Power; A. Tesfaye. Diversity, use and production of farmers' varieties of common bean (*Phaseolus vulgaris* L., Fabaceae) in southwestern and northeastern Ethiopia. *Agroecology and Sustainable Food Systems*. DOI: 10.1080/21683565.2022.2062634
28. Caddah, M. K. J. Meirelles, E. K. Nery, D. F. Lima, A. N. Nicolas, **F. A. Michelangeli** & R. Goldenberg. 2022. Beneath a hairy problem: Phylogeny, biogeography, and morphology circumscribe the new *Miconia* supersection *Discolores* (Melastomataceae: Miconieae). *Molecular Phylogenetics and Evolution* 171: 107461. DOI: 10.1016/j.ympev.2022.107461.
29. Fernandez-Hilario, R., R. P. Rojas Gonzáles, R. Villanueva-Espinosa, L. Lajo, A. A. Wong Sato, D. Paredes-Burneo, L. Pillaca-Huacre, **F. A. Michelangeli** & R. Goldenberg. 2022. Nine new species and a new country record for *Meriania* (Melastomataceae) from Peru. *Willdenowia* 52: 39-74. DOI: 10.3372/wi.52.52103.
30. 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. Frank, D. Ranatunga, Y. Baba, S. J. Belongie, **F. A. Michelangeli**, **B. A. Ambrose** & **D. P. Little**. 2022. The Herbarium 2021 Half-Earth Challenge Dataset and Machine Learning Competition. *Frontiers in Plant Science*. DOI: 10.3389/fpls.2021.787127
31. Murillo-Serna, J. S., **F. A. Michelangeli** & H. A. David-Higuita. 2022. *Alloneuron trinervium* (Melastomataceae: Cyphostyleae) a new species from Colombia. *Brittonia* 74: 43-52. DOI: 10.1007/s12228-021-09680-x
32. García-Moro, P., A. Otero, C. Benítez-Benítez, L. Costa, S. Martín-Bravo, **R. F. C. Naczi**, A. A. Reznicek, E. H. Roalson, J. R. Starr, and P. Jiménez-Mejías. 2022. Biogeography and systematics of *Carex* subgenus *Uncinia* (Cyperaceae): A unique radiation for the genus *Carex* in the Southern Hemisphere. *Taxon* early online, <https://doi.org/10.1002/tax.12678>.
33. Goddard, E. L., **R. Naczi**, K. Walker, J. Millett, and P. J. Wood. 2022. First records of the pitcher plant mite *Sarraceniopus gibsoni* (Nesbitt, 1954) (Astigmata: Histiostomatidae) in Europe. *Bioinvasions Records* 11: 62–69.

2021

34. **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
35. 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
36. 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>
37. **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**

38. **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>
39. **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
40. 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)
41. 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)
42. 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>
43. **Araújo J.P.M.,** Moriguchi M.G., Uchiyama S., Matsuura Y. (2021). Insights into the Ecology and Evolution of Blattodea-associated Ophiocordyceps. *IMA Fungus* 12: 1– 17.
<https://doi.org/10.1186/s43008-020-00053-9>. (IF = 3.515)
44. Crous, P.W., Lombard, L., ..., **Araújo, J.P.M.,** Zhang, C.L., Thines, M. (2021) Fusarium: more than a node or a foot-shaped basal cell. *Studies in Mycology* 98: 100116. (IF = 16.097).
45. 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
46. **Atha, D. & L. Paradiso.** 2021. New York City EcoFlora EcoQuest, CLIMBING THE WALLS. *Mitchelliana* 32(2):9–12.
47. Liu, X., Y. Wang, V. Alizade, M. Khutsishvili, **D. Atha,** R.P. Borris, B.R. Clark. Cruciasides C-G, monoterpene glycosides from *Cruciata articulata*. *Phytochemistry* 189, September 2021.
<https://doi.org/10.1016/j.phytochem.2021.112821>.
48. **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
49. **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
50. 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.
51. **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.
52. 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>
53. 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>
54. 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>
55. 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>)
 56. 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.
 57. Sleith R. S. & K. G. Karol. 2021. Global high-throughput genotyping of organellar genomes reveals the origin and spread of invasive starry stonewort (*Nitelloopsis obtusa*). *Biol. Invasions* 23:3471-3482. Doi:10.1007/s10530-021-02591-8
 58. Sleith, R.S. & **K.G. Karol**. 2021. Global high-throughput genotyping of organellar genomes reveals the origin and spread of invasive starry stonewort (*Nitelloopsis obtusa*). *Biol. Invasions* 23: 3471-3482. doi:10.1007/s10530-021-02591-8
 59. 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].
 60. 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].
 61. **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].
 62. **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].
 63. 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].
 64. **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].
 65. England, J.K., **J.C. Lendemer** and E.A. Tripp. 2021. *Rockfellera crossophylla* (Pannariaceae) rediscovered in Alabama. *Opuscula Philolichenum* 20: 1–6. [effectively published online 18 January 2021].
 66. 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].
 67. **Lendemer, J.C.** and K. Keepers. 2021. *Bacidia depriestiana* (Ramalinaceae), a new species from the southern Appalachian Mountains of eastern North America. *The Bryologist* 124(3): 362-375. [effectively published online 26 July 2021].
 68. 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].
 69. 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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71. 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].
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73. **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.
74. 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>.
75. **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.
76. **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.
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