

Supporting Information

List of references used in Table 1:

- Alonso, M.R., Ibañez, M., 2015. The species of family Enidae B. B. Woodward, 1903 (1880) (Mollusca, Gastropoda, Stylommatophora) from the Canary Islands: the genus *Napaeus* Albers, 1850. *Vieraea* 43, 153–188.
- Arechavaleta, M., Zurita, N., Marrero, M.C., Martín, J.L., (Eds.), 2005. Lista preliminar de especies silvestres de Cabo Verde. Hongos, plantas y animales terrestres. 2005. Gobierno de Canarias.
- Arechavaleta, M., Rodríguez, S., Zurita, N., García, A., (Eds.), 2010. Lista de especies silvestres de Canarias. Hongos, plantas y animales terrestres. 2009. Gobierno de Canarias.
- Arensburger, P., Buckley, T.R., Simon, C., Moulds, M., Holsinger, K.E., 2004. Biogeography and phylogeny of the New Zealand cicada genera (Hemiptera: Cicadidae) based on nuclear and mitochondrial DNA data. *J Biogeogr* 31, 557–569. <https://doi.org/10.1046/j.1365-2699.2003.01012.x>
- Arnedo, M.A., Oromí, P., Ribera, C., 2000. Systematics of the Genus *Dysdera* (Araneae, Dysderidae) in the Eastern Canary Islands. *J Arachnol* 28, 361–292.
- Baldwin, B.G., Sanderson, M.J., 1998. Age and rate of diversification of the Hawaiian silversword alliance (Compositae). *Proc Natl Acad Sci USA* 95, 9402–9406. <https://doi.org/10.1073/pnas.95.16.9402>
- Barrabé, L., Maggia, L., Pillon, Y., Rigault, F., Mouly, A., Davis, A.P., Buerki, S., 2014. New Caledonian lineages of *Psychotria* (Rubiaceae) reveal different evolutionary histories and the largest documented plant radiation for the archipelago. *Mol Phylogenet Evol* 71, 15–35. <https://doi.org/10.1016/j.ympev.2013.10.020>
- Bayly, M., Kellow, A., 2006. An illustrated guide to New Zealand Hebes. Te Papa Press, Wellington.
- Borges, P.A.V., Abreu, C., Aguiar, A.M.F., Carvalho, P., Jardim, R., Melo, I., Oliveira, P., Sérgio C., Serrano, A.R.M., Vieira, P., 2008. Listagem dos fungos, flora e fauna terrestres dos arquipélagos da Madeira e Selvagens. Direcção Regional do Ambiente da Madeira and Universidade dos Açores, Funchal y Angra do Heroísmo, Portugal.
- Borges, P.A.V., Amorim, I. R., Terzopoulou, S., Rigal, F., Emerson, B.C., Serrano, A.R.M., 2017. Cryptic diversity in the Azorean beetle genus *Tarphius* Erichson, 1845 (Coleoptera: Zopheridae): An integrative taxonomic approach with description of four new species. *Zootaxa* 4236, 401–449. <https://www.biotaxa.org/Zootaxa/article/view/zootaxa.4236.3.1>
- Borges, P.A.V., Costa, A., Cunha, R., Gabriel, R., Gonçalves, V., Martins, A.F., Melo, I., Parente, M., Raposeiro, P., Rodrigues, P., Santos, R.S., Silva, L., Viera, P., Viera, V., (Eds.) 2010. A list of the terrestrial and marine biota from the Azores. Principia, Cascais.
- Bueanvista, D.P., 2017. Contributions to the orchid flora of Mindanao. Long-term ecological research sites, Philippines. *Biologica Nyssana* 8, 31–38. <http://journal.pmf.ni.ac.rs/.../166>.
- Callmander, M.W., Laivao, M.O., 2003. New findings on *Pandanus* sect. *Imerinenses* and sect. *Rykiella* (Pandanaaceae) from Madagascar. *Adansonia* 25, 53–63.

- <https://sciencepress.mnhn.fr/en/periodiques/adansonia/25/1/nouvelles-donnees-sur-le-genre-pandanus-sect-imerinenses-et-sect-rykiella-pandanaceae-de-madagascar>
- Carvalho, J.A., Pontes, T., Batista-Marques, M.I., Jardim, R., 2010. A new species of *Echium* (Boraginaceae) from the island of Porto Santo (Madeira Archipelago). *Anales del Jardín Botánico de Madrid* 67, 87–96. <https://doi.org/10.3989/ajbm.2239>.
- Chambers, S.M., 1991. Biogeography of Galápagos land snails, in: James, M.J., (Ed.), *Galápagos Marine Invertebrates*, New York: Plenum. pp, 307–25.
- Chiba, S., 1999. Accelerate evolution of land snails *Mandarina* in the oceanic Bonin islands: evidence from mitochondrial DNA sequences. *Evolution* 53, 460–471. <https://doi.org/10.1111/j.1558-5646.1999.tb03781.x>
- Cho, M.S., Yang, J.Y., Yang, T.J., Kim, S.C., 2019. Evolutionary comparison of the chloroplast genome in the woody *Sonchus* Alliance (Asteraceae) on the Canary Islands. *Genes* 10, 217. <https://doi.org/10.3390/genes10030217>
- Cotoras, D.D., Bi, K., Brewer, M.S., Lindberg, D.R., Prost, S., Gillespie, R.G., 2018. Co-occurrence of ecologically similar species of Hawaiian spiders reveals critical early phase of adaptive radiation. *BMC Evol Biol* 18, 100. <https://bmcecol.evol.biomedcentral.com/articles/10.1186/s12862-018-1209-y#:~:>
- Crespo, L.C., Silva, I., Enguídanos, A., Cardoso, P., Arnedo, M.A., 2020. Integrative taxonomic revision of the woodlouse-hunter spider genus *Dysdera* (Araneae: Dysderidae) in the Madeira archipelago with notes on its conservation status. *Zool J Linn Soc* 192, 356–415. <https://doi.org/10.1093/zoolinnean/zlaa089>.
- Dransfield, J., Beentje, H.J., 1995. *Palms of Madagascar*. Royal Botanical Gardens Kew and the International Palm Society.
- Dransfield, J., Uhl, N.W., Asmussen, C.B., Baker, W.J., Harley, M.M., Lewis, C., 2008. *Genera Palmarum. The evolution and classification of Palms*. Kew Publishing. <https://kew.iro.bl.uk/concern/books/503db94e-b77d-4f40-8707-1d1b602b2b86?locale=en>.
- Emerson, B.C., Oromí, P., 2005. Diversification of the forest beetle genus *Tarphius* on the Canary Islands, and the evolutionary origins of island endemics. *Evolution* 59, 586–598. <https://doi.org/10.1111/j.0014-3820.2005.tb01018.x>.
- Fernández-Mazuecos, M., Vargas, P., McCauley, R.A., Monjas, D., Otero, A., Chaves, J.A., Guevara Andino, J.E., Rivas-Torres, G., 2020. The radiation of Darwin’s Giant Daisies in the Galápagos Islands. *Current Biology* 30, 1–10. <https://doi.org/10.1016/j.cub.2020.09.019>.
- García-Maroto, F., Mañas-Fernández, A., Garrido-Cárdenas, J.A., Alonso, D.L., Guil-Guerrero, J.L., Guzmán, B., Vargas, P., 2009. $\Delta 6$ -Desaturase sequence evidence for explosive Pliocene radiations within the adaptive radiation of Macaronesian *Echium* (Boraginaceae). *Mol Phylogenet Evol* 52, 563–574. <https://doi.org/10.1016/j.ympev.2009.04.009>.
- Givnish, T.J., Millam, K.C., Mast, A.R., Paterson, T.B., Theim, T.J., Hipp, A.L., Henss, J.M., Smith, J.F., Wood, K.R., Sytsma, K.J., 2009. Origin, adaptive radiation and diversification of the Hawaiian lobeliads (Asterales: Campanulaceae). *P Roy Soc B* 276, 407–416. <https://doi.org/10.1098/rspb.2008.1204>.

- Grant, P., Grant, R., 2008. How and why species multiply. The radiation of Darwin's finches. Princeton University Press, Princeton. <https://press.princeton.edu/books/paperback/9780691149998/how-and-why-species-multiply>.
- Groom, S.V.C., Stevens, M.I., Schwarz, M.P., 2013. Diversification of Fijian halictine bees: insights into a recent island radiation. *Mol Phylogenet Evol* 68, 582–594. <https://doi.org/10.1016/j.ympev.2013.04.015>.
- Heads, M., 2001. Birds of Paradise, biogeography and ecology in New Guinea: A review. *J Biogeogr* 28, 893–925. <https://doi.org/10.1046/j.1365-2699.2001.00600.x>.
- Heads, M., 2006. Seed plants of Fiji: an ecological analysis. *Biol J Linn Soc* 89, 407–431. <https://doi.org/10.1111/j.1095-8312.2006.00682.x>.
- Heaney, L.R., Balete, D.S., Rickart, E.A., 2016. The mammals of Luzón island. Biogeography and Natural History of a Philippine fauna. Johns Hopkins University Press, Baltimore. <https://jhupbooks.press.jhu.edu/title/mammals-luzon-island>.
- Herrera, J.P., 2017. Testing the adaptive radiation hypothesis for the lemurs of Madagascar. *Roy Soc Open Sci* 4, 161014. <https://doi.org/10.1098/rsos.161014>.
- Jønsson, K.J., Fabre, P.H., Fritz, S.A., Etienne, R.S., Ricklefs, R.E., Jørgensen, T.B., Fjeldså, J., Rahbek, C., Ericson, G.P., Woog, F., Pasquet, E., Irested, M., 2012. Ecological and evolutionary determinants for the adaptive radiation of the Madagascan vangas. *Proc Natl Acad Sci USA* 109, 6620–6625. <https://doi.org/10.1073/pnas.1115835109>.
- Kitson, J.N., Warren, B.H., Florens, F.B.V., Baider, C., Strasberg, D., Emerson, B.C., 2013. Molecular characterization of trophic ecology within an island radiation of insect herbivores (Curculionidae: Entiminae: *Cratopus*). *Mol Ecol* 22, 5441–5455. <https://doi.org/10.1111/mec.12477>.
- Kleinkopf, J.A., Roberts, W.R., Wagner, W.L., Roalson, E.H., 2019. Diversification of Hawaiian *Cyrtandra* (Gesneriaceae) under the influence of incomplete lineage sorting and hybridization. *J Syst Evol* 57, 561–578. <https://doi.org/10.1111/jse.12519>.
- Knope, M.L., Funk, V.A., Johnson, M.A., Wagner, W.L., Datlof, E.M., Johnson, G., Crawford, D.J., Bonifacino, J.M., Morden, C.M., Lorence, D.H., Wood, K.E., Meyer, J.I., Carlquist, S., 2020. Dispersal and adaptive radiation of *Bidens* (Compositae) across the remote archipelagoes of Polynesia. *J Syst Evol* 58, 805–822. <https://doi.org/10.1111/jse.12704>.
- Le Péchon, T., Humeau, L., Gigord, L., Pause, J.B., Caron, D., Baider, C., Gigord, P., Grosser, D., Hansen, D., Sevathian, J.C., 2013. Les Mahots des Mascareignes. Base de connaissances sur les Dombeyoideae des Mascareignes. Univ. La Réunion, St Denis. <https://cel.archives-ouvertes.fr/LIM/hal-01186487>.
- Lee, T., Li, J., Churchill, C.K.C., Foighil, D.O., 2014. Evolutionary history of a vanishing radiation: isolation-dependent persistence and diversification in Pacific Island partulid tree snails. *BMC Evol Biol* 14, 202. <https://bmcecolvol.biomedcentral.com/articles/10.1186/s12862-014-0202-3>
- Liebherr, J.K., 2013. The *Mecyclothorax* beetles (Coleoptera, Carabidae, Moriomorphini) of Tahiti, Society Islands. *ZooKeys* 32, 1–170. <https://doi.org/10.3897/zookeys.224.3675>

- Losos, J.B., 2009. Lizards in an evolutionary tree: ecology and adaptive radiation of anoles. University California Press, Berkeley, CA. <https://www.ucpress.edu/book/9780520269842/lizards-in-an-evolutionary-tree>.
- Machado, A., Rodríguez-Expósito, E., López, M., Hernández, M., 2017. Phylogenetic analysis of the genus *Laparocerus*, with comments on colonisation and diversification in Macaronesia (Coleoptera, Curculionidae, Entiminae). *ZooKeys* 651, 1–77. <https://doi.org/10.3897/zookeys.651.10097>. eCollection 2017.
- Macías-Hernández, N., de la Cruz López, S., Roca-Cusachs, M., Oromí, P., Arnedo, M.A., 2016. A geographical distribution database of the genus *Dysdera* in the Canary Islands (Araneae, Dysderidae). *ZooKeys* 625, 11–23. <https://doi.org/10.3897/zookeys/625.9847>.
- Magnacca, K.N., 2007. Conservation status of the endemic bees of Hawai‘i, *Hylaeus*, (*Nesoprosopis*) (Hymenoptera: Colletidae). *Pac Sci* 61, 173–190. <http://hdl.handle.net/10125/22606>.
- Munzinger, J., Mora, T.P., Jaffré, T., Gâteblé, G., Pillon, Y., Tronchet, F., Veillon, J.-M., Chalopin M., 2016. FLORICAL: Checklist of the vascular indigenous flora of New Caledonia. <http://publish.plantnet-project.org/project/florical>
- Nielsen, S.V., Bauer, A.M., Jackman, T.R., Hitchmough, R.A., Daugherty, C.H., 2011. New Zealand geckos (Diplodactylidae): Cryptic diversity in a post-Gondwanan lineage with trans-Tasman affinities. *Mol Phylogenet Evol* 59, 1–22. <https://doi.org/10.1016/j.ympev.2010.12.007>
- O’Grady, P., DeSalle, R., 2018. Hawaiian *Drosophila* as an evolutionary model clade: days of future past. *BioEssays* 40, 1700246. <https://doi.org/10.1002/bies.201700246>
- Paulay, G., 1985. Adaptive radiation on an isolated oceanic island: the Cryptorhynchinae (Curculionidae) of Rapa revisited. *Biol J Linn Soc* 26, 95–187. <https://doi.org/10.1111/j.1095-8312.1985.tb01554.x>.
- Pratt, H.D., 2005. The Hawaiian honeycreepers. Oxford University Press, NY. <https://global.oup.com/academic/product/the-hawaiian-honeycreepers-9780198546535?cc=es&lang=en&>.
- Rivera, J.O., Kraus, F., Allison, A., Butler, M.A., 2017. Molecular phylogenetics and dating of the problematic New Guinea microhylid frogs (Amphibia: Anura) reveals elevated speciation rates and need for taxonomic reclassification. *Mol Phylogenet Evol* 112, 1–11. <https://doi.org/10.1016/j.ympev.2017.04.008>.
- Sang, T., Crawford, D.J., Kim, S.C., Stuessy, T.F., 1998. Radiation of the endemic genus *Dendroseris* (Asteraceae) on the Juan Fernández Islands: evidence from sequences of its regions of nuclear ribosomal DNA. *Am J Bot* 81, 1494–1501. <https://doi.org/10.2307/2445322>.
- Sarnat, E.M., Hita Garcia, F., Dudley, K., Liu, C., Fischer, G., Economo, E.P., 2019. Ready species one: exploring the use of augmented reality to enhance systematic biology with a revision of Fijian *Strumigenys* (Hymenoptera: Formicidae). *Insect Systematics and Diversity* 3, 1–43. <https://doi.org/10.1093/isd/ixz005>.
- Shaw, K.L., 1995. Biogeographic patterns of two independent Hawaiian cricket radiations. (*Laupala* and *Prognathogryllus*), in: Wagner, W., Funk, V.A., (Eds.) Hawaiian Biogeography: Evolution on a hot spot archipelago. Smithsonian, Washington. pp. 39–56.

- Skema, C., 2012. Toward a new circumscription of *Dombeya* (Malvales: Dombeyaceae): A molecular phylogenetic and morphological study of *Dombeya* of Madagascar and a new segregate genus, *Andringitra*. *Taxon* 61, 612–628. <https://doi.org/10.1002/tax.613010>
- Skipwith, P.L., Bi, K., Oliver, P.M., 2019. Relics and radiations: Phylogenomics of an Australasian lizard clade with east Gondwanan origins (Gekkota: Diplodactyloidea). *Mol Phylogenet Evol* 140, 106589. <http://doi.org/10.1016/j.ympev.2019.106589>.
- Smith, S.A., Sadlier, R.A., Bauer, A.M., Austin, C.C., Jackman, T., 2007. Molecular phylogeny of the scincid lizards of New Caledonia and adjacent areas: Evidence for a single origin of the endemic skinks of Tasmantis. *Mol Phylogenet Evol* 43, 1151–1166. <https://doi.org/10.1016/j.ympev.2007.02.007>.
- Strijk, J., Noyes, R.D., Strasberg, D., Cruaud, C., Gavory, F., Chase, M.W., Abbott, R.J., Thébaud, C., 2012. In and out of Madagascar: Dispersal to Peripheral Islands, Insular Speciation and Diversification of Indian Ocean Daisy Trees (*Psiadia*, Asteraceae). *PLoS One* 7, e42932. <https://doi.org/10.1371/journal.pone.0042932>.
- Taylor, C.M., 2020. Overview of *Psychotria* in Madagascar (Rubiaceae, Psychotrieae), and of Bremekamp's foundational study of this group. *Candollea* 75, 51–10. <https://doi.org/10.15553/c2020v751a5>.
- Vollering, J., Schuitman, A., de Vogel, E., van Vugt, R., Raes, N., 2016. Phylogeography of New Guinean orchids: patterns of species richness and turnover. *J Biogeogr* 43, 204–214. <https://doi.org/10.1111/jbi.12612>.
- Von Rintelen, T., Glaubrecht, M., 2005. Anatomy of an adaptive radiation: a unique reproductive strategy in the endemic freshwater gastropod *Tylomelania* (Cerithioidea: Pachychilidae) on Sulawesi, Indonesia and its biogeographical implications. *Biol J Linn Soc* 85, 513–542. <https://doi.org/10.1111/j.1095-8312.2005.00515.x>.