

Accepted Manuscript

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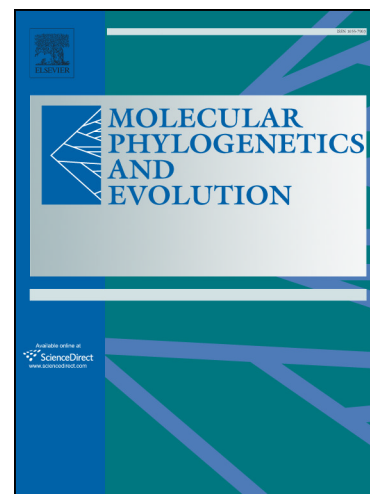
PII: S1055-7903(17)30939-9
DOI: <https://doi.org/10.1016/j.ympev.2018.05.004>
Reference: YMPEV 6155

To appear in: *Molecular Phylogenetics and Evolution*

Received Date: 27 December 2017
Revised Date: 1 May 2018
Accepted Date: 3 May 2018

Please cite this article as: Bauret, L., Field, A.R., Gaudeul, M., Selosse, M-A., Rouhan, G., First insights on the biogeographical history of *Phlegmariurus* (Lycopodiaceae), with a focus on Madagascar, *Molecular Phylogenetics and Evolution* (2018), doi: <https://doi.org/10.1016/j.ympev.2018.05.004>

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First insights on the biogeographical history of *Phlegmariurus* (Lycopodiaceae), with a focus on Madagascar

Lucie Bauret ^{a,b,*}, Ashley R. Field ^{c,*}, Myriam Gaudeul ^a, Marc-André Selosse ^{a,d}, Germinal Rouhan ^a

^a Muséum national d'Histoire naturelle, Sorbonne Universités, Institut de Systématique, Evolution, Biodiversité (UMR 7205 CNRS, MNHN, UPMC, EPHE), Herbar national, 16 rue Buffon CP39, F-75005 Paris, France

^b Université Pierre et Marie Curie, Sorbonne Universités, Institut de Systématique, Evolution, Biodiversité (UMR 7205 CNRS, MNHN, UPMC, EPHE), 57 rue Cuvier CP48, F-75005 Paris, France

^c Queensland Herbarium, Department of Environment and Science; Australian Tropical Herbarium, James Cook University, POBox 6811, Cairns, Qld 4878, Australia.

^d Department of Plant Taxonomy and Nature Conservation, University of Gdansk, ul. Wita Stwosza 59, 80-308 Gdansk, Poland

*the authors contributed equally

ABSTRACT

We explored the biogeographical history of a group of spore-bearing plants focusing on *Phlegmariurus* (Lycopodiaceae), a genus of lycophytes comprising ca. 250 species. Given its wide distribution in the Southern Hemisphere, *Phlegmariurus* provides a good model to address questions about the biogeographical processes underlying southern distributions, notably in Madagascar and surrounding islands (WIO). Our aims were i) to discuss the systematics of the Malagasy species in the light of molecular phylogenetic results, ii) to provide the first dating analysis focused on *Phlegmariurus* and iii) to understand the relative role of vicariance, dispersal and diversification in the origin of the Malagasy *Phlegmariurus* species.

The phylogenetic relationships were inferred based on three plastid DNA regions (*rbcl*, *trnH-psbA* and *trnL+trnL-trnF*) and on a dataset comprising 93 species that includes 16 Malagasy species (80% of the total Malagasy diversity for the genus). Our results

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