



Differentiation of the endemic Greek genus *Hymenonema* and its relatives of subtribe Scolyminae (Compositae, Cichorieae) based on a multilocus species tree reconstruction

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Received: 15 February 2018 / Accepted: 17 September 2018 / Published online: 17 October 2018
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Abstract

Hymenonema (Compositae, tribe Cichorieae) together with the genera *Catananche*, *Gussonea*, and *Scolymus* forms the subtribe Scolyminae. It is endemic to Greece and consists of two species, *Hymenonema laconicum* and *Hymenonema graecum*, which occur in the south Peloponnisos and central Aegean area, respectively. The present contribution aims at a phylogenetic reconstruction of evolutionary relationships among the 12 species of the subtribe, focusing on the temporal and spatial framework for its evolution. The phylogenetic relationships among the members of Scolyminae were inferred from molecular data based on the multi-copy region of the nrDNA internal transcribed spacers ITS1 and ITS2, two intergenic spacers of the cpDNA (*trnL-trnF*, *rp32-trnL*), and one single-copy nuclear region (*DfD*). The gene trees were reconstructed using Bayesian phylogenetic methods. All gene trees support the monophyly of *Hymenonema* and the sister-group relationship with the genus *Scolymus*. The further sister-group relationship of this group (*Hymenonema*–*Scolymus*) with *Catananche* is also supported by nrDNA and cpDNA analyses. Finally, a species tree (inferred in a Bayesian coalescent framework) was reconstructed and dates the divergence time between the two *Hymenonema* species to the Pleistocene (around 1.3 Ma ago). Maximum likelihood-based biogeographical reconstructions suggest a Miocene (pre-Messinian) differentiation of the subtribe on the northern Tethyan platform, followed by Miocene/Pliocene dispersal events to the western Mediterranean and North-African platforms and final, small-scale vicariance events within the genera in the Pleistocene.

Keywords Aegean · Asteraceae · Biogeography · Phylogeny · Pleistocene · Pliocene

Handling Editor: Terry A.J. Hedderson.

Electronic supplementary material The online version of this article (<https://doi.org/10.1007/s00606-018-1545-9>) contains supplementary material, which is available to authorized users.

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Introduction

Narrow endemism is the cornerstone of plant diversity in the Mediterranean area, and its geographical patterns and their geological, climatological, and ecological correlates are fundamental for understanding the region's plant biogeography, evolutionary biology, and conservation biology (Thompson 2005). In this respect, small, and in many cases unispecific

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Compositae Tribe Cichorieae

Albert A Gayle



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