

## Intercontinental distribution of *Plagiochila corrugata* (Plagiochilaceae, Hepaticae) inferred from nrDNA ITS sequences and morphology

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*Plagiochila* sect. *Vagor* is a large pantropical clade that is characterized morphologically by frequent terminal branching, vegetative distribution by propagules on the ventral surface of the leaves and a capsule wall with thickenings in all layers. *Plagiochila corrugata* from Brazil is characterized by strongly undulate, toothed leaf margins and represents the only known neotropical species of sect. *Vagor* with unispiral elaters. *Plagiochila combesana* from Madagascar is distinguished by the same features. Maximum likelihood and parsimony analyses of 38 nrDNA ITS sequences of *Plagiochila* reveal *P. corrugata* and *P. combesana* in a weakly (ML) to well (MP) supported monophyletic lineage within *P.* sect. *Vagor*. As an outcome of the morphological and molecular investigation, *P. combesana* is relegated to the synonymy of *P. corrugata*. *Plagiochila corrugata* is placed in a *Vagor*-subclade with 11 further American species. The range of *P. corrugata* can be ascribed to long-range dispersal from the Neotropics rather than a Gondwanan distribution. Species from tropical Asia and Africa are placed at the base of the *Vagor* clade. Branch length within *P.* sect. *Vagor* points to a sudden radiation. © 2004 The Linnean Society of London, *Botanical Journal of the Linnean Society*, 2004, 146, 469–481.

**ADDITIONAL KEYWORDS:** Africa – biogeography – Madagascar – maximum likelihood analysis – Neotropics – parsimony analysis – *Plagiochila* sect. *Vagor*.

### INTRODUCTION

*Plagiochila* (Dumort.) Dumort. with more than 1600 published binomials (Inoue, 1989) and roughly 400–450 morphospecies (So & Gralle, 2000) is the largest genus of leafy liverworts. This cosmopolitan genus is well defined by its dioecism, the laterally compressed perianth, alternate foliation and succubous leaves. In contrast, taxonomy at species and section level is hampered by lack of stable gametophytic characters.

Many authors (e.g. Gottsche, 1863–7; Spruce, 1884–5) tried to cope with the huge variability of *Plagiochila*

gametophytes by describing numerous species that were usually assigned to small ranges only. However, the application of a narrow species concept is problematic because of the presence of numerous intermediates. Modern revisions (e.g. Inoue, 1984) have thus adopted a wider species concept, resulting in binomials with larger geographical ranges and numerous synonyms.

Several authors have tried to subdivide *Plagiochila* into natural species groups. The last comprehensive approach to structure the genus was published by Carl (1931), who gave attention to *Plagiochila* worldwide with the exception of Africa. Carl accepted 50 sections that were usually restricted to a single continent or floristic kingdom. He spread Neotropical *Plagiochila* spe-

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