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A new Discidae subgenus and two new species (Gastropoda: Pulmonata) from the Canary Islands

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The family Discidae has undergone extensive speciation in the Macaronesian region (eastern Atlantic Ocean), with 11 endemic species recognised from Madeira and the Canary Islands in recent checklists (Bank, Groh & Ripken 2002; Seddon 2008; Fauna Europaea database project 2011), grouped into the genera *Keraea* Gude, 1911 and *Discus* Fitzinger, 1833: *K. deflorata* (R.T. Lowe, 1855) and *D. (Atlantica) guerinianus* (R.T. Lowe, 1852), from Madeira; and nine species from the Canary Islands: *K. garachicoensis* (Wollaston, 1878), *D. scutula*, (Shuttleworth, 1852), *D. engonatus* (Shuttleworth, 1852), *D. textilis* (Shuttleworth, 1852), *D. retextus*, (Shuttleworth, 1852), *D. putrescens* (R.T. Lowe, 1861), *D. ganodus* (J. Mabille, 1882), *D. gomerensis* Rähle, 1994, and *D. kompsus* (J. Mabille, 1883). In contrast with the anatomical data known for the European and North American genera *Discus* and *Anguispira* Morse, 1864 (Uminski 1962; Pilsbry 1948), there has hitherto been no information published on the internal anatomy of the Canary Islands and Madeiran species, which are known only by their shell characters. In this paper we raise *Atlantica* to the rank of genus in the Discidae and describe shell and anatomical characters for two new species from La Gomera and Tenerife, respectively. They are grouped in a new subgenus of *Atlantica*, largely restricted to the laurisilva. This laurel-rich forest occurs in humid subtropical and warm-temperate regions with little variability in temperatures and is developed between 600 and 1,200 m above sea level in the Canary Islands (Yanes *et al.* 2009b: Fig. 2).

The snails were drowned in water and fixed in 80% ethanol. The methodology was described in Kerney & Cameron (1979) and Yanes *et al.* (2009a). "Proximal" and "distal" refer to the position in relation to the ovotestis. Comparisons have been made with photographs of syntypes of *Patula garachicoensis* Wollaston, 1878, *Helix putrescens* R.T. Lowe, 1861, the Discidae species described by Shuttleworth (1852) from the Canary Islands (Neubert & Gosteli 2003), a possible syntype of *H. gueriniana* R.T. Lowe, 1852, a shell of *H. calathoides* R.T. Lowe, 1863 and the shell drawings (Rähle 1994) of the holotype of *D. gomerensis*.

Institutional and other abbreviations

AIT Alonso and Ibáñez collection, Department of Animal Biology, University of La Laguna, Tenerife,

Canary Islands, Spain

JSGC J. Santana private collection, Las Palmas de Gran Canaria, Spain TFMC Museo de Ciencias Naturales de Tenerife, Canary Islands, Spain UTM Universal Transverse Mercator cartographic projection system