

South African Latrunculiidae (Porifera: Demospongiae: Poecilosclerida): descriptions of new species of *Latrunculia* du Bocage, *Strongylodesma* Lévi, and *Tsitsikamma* Samaai & Kelly

TOUFIEK SAMAAI,^{1,3*} MARK J. GIBBONS,¹ MICHELLE KELLY² & MIKE DAVIES-COLEMAN⁴

¹*Department of Zoology, University of the Western Cape, P.O. Box X17, Bellville, Cape Town (mgibbons@uwc.ac.za)*

²*National Centre for Aquatic Biodiversity & Biosecurity, National Institute of Water & Atmospheric Research Limited, Private Bag 109 695, Newmarket, Auckland (m.kelly@niwa.co.nz)*

³**Present address: Zoology Department, School of Biology, University of Durban-Westville, PB X54001, Durban (tsamaai@pixie.udw.ac.za)*

⁴*Department of Chemistry, Rhodes University, Grahamstown, South Africa (m.davies-coleman@ru.ac.za)*

**Corresponding author: Toufiek Samaai*

Abstract

A recent major revision of the Family Latrunculiidae (Demospongiae: Poecilosclerida) recognised four valid genera; *Latrunculia* du Bocage, *Sceptrella* Schmidt, *Strongylodesma* Lévi, and *Tsitsikamma* Samaai & Kelly, from South Africa. The major diagnostic characters of the Family Latrunculiidae are the possession of discrete acanthose microrhabd microscleres called acanthodiscorhabds, or more traditionally, “chessman” spicules, that form a dense palisade in the outer ectosome, a tangential layer of styles or anisostyly megascleres below this, and a wispy choanosomal skeleton of the same spicules. The sponge surface almost always has areolate porefields and short fistular oscules. This paper reports new Latrunculiidae from western and southeastern South Africa, including a redescription of *Latrunculia biformis* (Kirkpatrick). Four key characters, including microsclere ornamentation, spicule dimensions, colouration in life, and surface aquiferous features, define three new species of *Latrunculia* (*L. lunaviridis* sp. nov., *L. microacanthoxea* sp. nov., and *L. bellae* sp. nov.), two new species of *Strongylodesma* (*S. algoensis* sp. nov. and *S. tsitsikamensis* sp. nov.), and two new species of *Tsitsikamma* (*T. pedunculata* sp. nov. and *T. scurra* sp. nov.).

Key words: Demospongiae; Poecilosclerida; Latrunculiidae; *Latrunculia*; *Strongylodesma*; *Tsitsikamma*; new species; South Africa