



Four new species of free-living marine nematodes of the family Comesomatidae (Nematoda: Araeolaimida) from coast of Vietnam

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Abstract

Specimens of four new nematode species of the family Comesomatidae were isolated from the sediments of littoral zone of South China Sea at the coast of Vietnam and described and illustrated. *Sabatieria curvispiculata* sp. n. is characterized by the long and slender tail, short cephalic setae and strongly curved spicules in males. *Setosabatieria orientalis* sp. n. is close to *S. australis* Riera, Nunez, Brito, 2006, but differs from it in the comparatively shorter and more slender tail, smaller number of amphidial fovea turns, greater number of preloacal supplements in males and shape and structure of spicules. *Dorylaimopsis intermedia* sp. n. is morphologically closest to *D. mediterranea* Grimaldi-de Zio, 1968 and *D. magellanense* Chen, Vincx, 1968, but differs from both species in the longer outer labial setae and absence of preloacal supplements in males. *D. brevispiculata* sp. n. is similar to *D. turneri* Zhang, 1992 and *D. coomansi* Muthumbi, Soetaert, Vincx, 1977, but differs from both species in the shape of outer labial sensillae and absence of preloacal supplements in males. A pictorial key for determination of valid species in the genus *Setosabatieria* Rouville, 1903 is given.

Key words: description, *Dorylaimopsis brevispiculata* sp. n., *Dorylaimopsis intermedia* sp. n., free-living marine nematodes, new species, *Sabatieria curvispiculata* sp. n., *Setosabatieria intermedia* sp. n., South China Sea, taxonomy, Vietnam.

Introduction

The free-living nematode fauna of Vietnam has been studied in connection with the creation of a new database for the biomonitoring assessment of water quality in watershed and wetland ecosystems of Vietnam in its entirety. This work, conducted during 2007–2010, is part of the Vietnam National Project studying biodiversity of free-living nematodes of the coast of Vietnam near Ho Chi Minh City. Nematode samples were collected in March 2010 from the littoral zone in the South China Sea on the northern coast of Vietnam. Samples were taken from a boat using a Polar grab. At each station one grab was collected with three replicates for nematode analysis. All samples were fixed in hot 10 % formalin. The nematodes were extracted using Ludox-TM 50 solution with flocculation and decantation, then gradually transferred to anhydrous glycerin and finally mounted on permanent slides.

Descriptions

Order Araeolaimida de Coninck et Schuurmans Stekhoven, 1933

Family Comesomatidae Filipjev, 1918

Genus *Sabatieria* Rouville, 1903

Sabatieria curvispiculata sp. n.

(Fig. 1, Table 1)

Type specimens. Holotype male, inventory slide no. 102/4 and paratype males (same slide) deposited in the