



New Zealand species of the genus *Tripyla* Bastian, 1865 (Nematoda:Triplonchida: Tripylidae). I : A new species, a new record and key to long-tailed species

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Abstract

This paper describes two species of the genus of *Tripyla* from New Zealand and also provides a key to species based on the morphology of females in eight long-tailed ($c < 5$) species in the genus of *Tripyla*. *Tripyla bioblitz* **sp. nov.** is characterized by its more anterior vulva position ($V = 43.7\text{--}45.4\%$), relatively short body length (1150–1410 μm) and long tail ($c = 4.0\text{--}4.4$) in the group. *Tripyla filicaudata* de Man, 1880 is recorded for the first time from New Zealand and from the Southern Hemisphere. In addition, the phylogenetic relationships among species were analyzed using data from the near full length small subunit (SSU) and D2/D3 expansion segments of the large subunit ribosomal (LSU) rRNA genes, and these analyses revealed that *T. bioblitz* **sp. nov.** is close to but distinct from *T. filicaudata* de Man, 1880.

Key words: Description, new species, morphology, morphometrics, molecular, SSU, LSU, phylogeny, taxonomy, Nematoda, *Tripyla*

Introduction

Nematodes of the genus *Tripyla* Bastian, 1865 (family Tripylidae de Man, 1876) are found in soil and limnetic habitats (Brzeski 1963; Brzeski & Winiszewska-Ślipińska 1993; Tsalolikhin 1983; Zullini 2006; Andrásy 1985, 2006, 2007, 2008). The genus currently consists of twenty-five valid species *sensu* Andrásy (2007, 2008). These include:

Type species:

Tripyla glomerans Bastian, 1865

Other species:

T. affinis de Man, 1880

T. aquatica Brzeski & Winiszewska-Ślipińska, 1993

T. cornuta Skwarra, 1921

T. crassa Alekseev & Bestalannaya, 1990

T. dubia Gagarin, 1997

T. dybowski Tsalolikhin, 1976

T. elegantula Brzeski & Winiszewska-Ślipińska, 1993

T. filicaudata de Man, 1880

T. glosaria (Gagarin, 1994) Andrásy, 2007

T. infa Brzeski & Winiszewska-Ślipińska, 1993

T. pulchella Andrásy, 2007

T. italica Tsalolikhin, 2003

T. koreana Winiszewska-Ślipińska, Brzeski, Choi & Kim, 2000

T. longicaudata Nesterov, 1979