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NEWLY RECORDED SPECIES OF FREE-LIVING NEMATODES FROM CHINA (CHROMADORIDA, ENOPLIDA & ARAEOLAIMIDA)

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Abstract

The present paper embodies 11 species belonging to Chromadorida, Enopliida and Araeolaimida. All of these species are recorded from China for the first time. The genera *Achromadora*, *Ironus*, *Triplina*, *Cylindrolaimus* and *Paraplectonema* are also first reported in the country.

CHROMADORIDA (Filipjev, 1917) Chitwood, 1933

1. *Achromadora semiarмата* Altherr, 1952(Fig.1A—E)

Females: n = 17; L = 0.4—0.5mm; a = 17.5—20.2; b = 4.3—6.0; c = 7.1—9.3; c' = 3.5—5.9; V = 45.1—51.1

Size small. Punctations fine. Stoma relatively long. Amphids at middle of stoma. Collected from moist meadow soil in Chongqing.

2. *Achromadora ruricola* (de Man, 1880) Micoletzky, 1925(Fig.1F—I)

Females: n = 3; L = 0.6—0.7mm; a = 14.2—23.1; b = 5.6—6.8; c = 8.7—9.4; c' = 3.2—5.3; V = 44.9—47.3

Amphids situated just at the base of stoma. Oesophagus cylindrical, with terminal bulb. Collected from moss or soil around roots of *Oxalis corniculata* in Wuhan of Hubei Province and Huzhou of Zhejiang Province.

ENOPLIDA (Baird, 1853)Chitwood, 1933

3. *Ironus dentifurcatus* Argo & Heyns, 1972(Fig.2A—C)

Females: $n = 15$; $L = 1.5-1.7\text{mm}$; $a = 42.1-55.0$; $b = 4.9-6.1$; $c = 4.7-5.8$; $c' = 18.2-20.3$; $V = 40.1-46.9$

Body slender. Lips round. Point of dorsal tooth bifid. Tail long and filiform. Vulva situated anterior to middle body. Collected from muddy and mossy soil in Wuhan of Hubei Province, Dazu of Sichuan Province and Hangzhou of Zhejiang Province.

4. *Ironus ignavus* Bastian, 1865(Fig.2D—E)

Females: $n = 7$; $L = 1.5-2.0\text{mm}$; $a = 30.0-37.0$; $b = 3.7-4.0$; $c = 9.0-12.0$; $c' = 4.3-5.0$; $V = 53.4-58.0$

Strongly cuticularized stoma 1 / 5 oesophagus long. Collected from moist shore and water of Bao-an Lake, Hubei Province.

5. *Tripyla affinis* de Man, 1880 (Fig.3A)

Female: $n = 1$; $L = 0.9\text{mm}$; $a = 19.7$; $b = 4.5$; $c = 6.9$; $c' = 4.2$; $V = 51.7$

Head truncate. Outer labial and cephalic sensillae well separated. Only one female collected from moss in Wuhan of Hubei Province.

6. *Tripyla glomerans* Bastian, 1865(Fig.3B—E)

Females: $n = 7$; $L = 1.7-2.0\text{mm}$; $a = 29.7-36.8$; $b = 5.4-6.1$; $c = 6.3-8.0$; $c' = 6.5-8.7$; $V = 52.5-54.8$

Male: $n = 1$; $L = 2.0\text{mm}$; $a = 33.6$; $b = 5.8$; $c = 7.9$; $c' = 6.5$

Body large, probably the largest known species of the genus. Amphids $6\mu\text{m}$. wide. Spinneret $6\mu\text{m}$. long. Male spicules almost straight. Gubernaculum $22\mu\text{m}$ long, hooked distally. 18 mid-ventral papillae arranged from anus to head. Collected from fish ponds in Huzhou and Hangzhou of Zhejiang Province.

7. *Tripylina sheri* Brzeski, 1963(Fig.4)

Females: $n = 20$; $L = 0.8-1.1\text{mm}$; $a = 26.3-32.4$; $b = 5.8-6.5$; $c = 14.3-17.5$; $c' = 3.2-4.0$; $V = 64.6-68.0$

Subventral denticles anterior to dorsal tooth. Dorsal wall of stomatal chamber thickened. Collected from sod and moss of several localities: Wuhan of Hubei Province, Huzhou of Zhejiang Province, Chongqing, and Wushan of Sichuan Province.

ARAEOLAIMIDA de Coninck & Schuurmans Stekhoven, 1933

8. *Plectus parietinus* Bastian, 1865(Fig.5)

Females: $n = 4$; $L = 0.9-1.5\text{mm}$; $a = 18.3-27.1$; $b = 4.0-5.1$; $c = 12.0-13.5$; $c' = 3.4-3.6$; $V = 50.0-51.2$

Body plump. Lateral field with two longitudinal alae. Lips well set off. Amphids relatively small, 1 / 6 body diameter at same level. Collected from damp soil in Hainan.

9. *Plectus inquirendus* Andrassy, 1958(Fig.6A—B)

Females: $n = 5$; $L = 0.7\text{--}0.9\text{mm}$; $a = 43.7\text{--}55.2$; $b = 3.7\text{--}4.0$; $c = 6.8\text{--}9.5$; $c' = 5.4\text{--}6.4$; $V = 46.4\text{--}48.9$

Lips low. Cephalic setae long. Stoma of two head-width. Amphids large, situated rather backward. Collected from cotton field in Wuhan of Hubei Province, also from aquatic vascular plants in Bao-an Lake of Hubei Province and Huzhou of Zhejiang Province.

10. *Cylindrolaimus melancholicus* de Man, 1880(Fig.6C—E)

Females: $n = 2$; $L = 0.4\text{--}0.7\text{mm}$; $a = 38.3\text{--}40.1$; $b = 4.1\text{--}5.9$; $c = 7.9\text{--}8.3$; $c' = 6.5\text{--}6.7$; $V = 60.7\text{--}63.6$

Stoma tubular, $15\text{--}19\mu\text{m}$ long. Circular amphids just behind head setae. Terminal caudal gland duct cuticularized. Gonad prodelphic. Collected from moist litter in Chongqing.

11. *Paraplectonema pedunculata* (Hofmanner, 1913) Strand, 1934(Fig.7)

Females: $n = 10$; $L = 0.8\text{--}1.1\text{mm}$; $a = 19.7\text{--}29.7$; $b = 6.1\text{--}7.5$; $c = 5.7\text{--}6.1$; $c' = 7.6\text{--}9.4$; $V = 45.5\text{--}48.2$

Males: $n = 4$; $L = 0.7\text{--}1.0\text{mm}$; $a = 23.3\text{--}32.5$; $b = 5.9\text{--}7.3$; $c = 8.9\text{--}9.3$; $c' = 4.2\text{--}5.5$

Stoma narrow, with knot-like portions at middle and base parts. Amphids large, spiral, only $2.0\text{--}2.2\mu\text{m}$ to head apex. Oesophageal bulb valveless. Female gonads paired. Male spicules paired, arcuate. Gubernaculum 1 / 3 as long as spicule. 11—12 tubular supplements present. Collected from meadow in Yichang of Hubei Province, also from bottom mud in Bao-an Lake.

Key words Free-living nemotodes, Chromadorida, Enoplida, Araeolaimida, New records