

# SUMMARY

A survey of soil-inhabiting nematodes from South India with special reference to Western Ghats yielded large number of species belonging to the superfamily Dorylaimoidea. Some soil samples were also collected from Uttar Pradesh, Jammu & Kashmir and Manipur. Few permanent slides were received with courtesy from Dr. Dieter Sturhan of the Institut für Nematologie, Germany and Dr. Jihua Wu, Institute of Biodiversity, Fudan University, China.

In all 44 species belong to the superfamily Dorylaimoidea have been described. These are grouped under 4 families, 8 subfamilies and 18 genera, representing 16 new and 28 known species. Diagnosis of all the familial groups and genera under which species have been reported are provided. Identification keys to the familial groups and genera have also been added. A list of nominal species under each genus is also provided.

**I The families:**

- (i) Dorylaimidae
- (ii) Aporcelaimidae
- (iii) Qudsianematidae
- (iv) Nordiidae

**II The subfamilies:**

- (i) Dorylaiminae
- (ii) Laimydorinae
- (iii) Aporcelaiminae
- (iv) Thornenematinae
- (v) Qudsianamatinae
- (vi) Discolaiminae

(vii) Lordellonematinae

(viii) Actinolaimoidinae

### **III The genera :**

(1) *Dorylaimus*

(2) *Mesodorylaimus*

(3) *Prodorylaimus*

(4) *Afrodorylaimus*

(5) *Drepanodorylaimus*

(6) *Laimydorus*

(7) *Aporcedorus*

(8) *Thornenema*

(9) *Indodorylaimus*

(10) *Sicaguttur*

(11) *Opisthodorylaimus*

(12) *Aporcelaimellus*

(13) *Makatinus*

(14) *Labronema*

(15) *Talanema*

(16) *Discolaimus*

(17) *Moshajia*

(18) *Oriverutus*

### **IV The known species:**

(1) *Dorylaimus stagnalis*

(2) *Dorylaimus fodori*

(3) *Mesodorylaimus mesonyctius*

(4) *Mesodorylaimus pseudosubtilis*

(5) *Mesodorylaimus kowyni*

- (6) *Mesodorylaimus potus*
- (7) *Prodorylaimus alpinum*
- (8) *Afrodorylaimus beaumonti*
- (9) *Drepanodorylaimus filiformis*
- (10) *Laimydorus andrassyi*
- (11) *Laimydorus conurus*
- (12) *Laimydorus siddiqii*
- (13) *Laimydorus multialaeus*
- (14) *Aporcedorus punctatus*
- (15) *Thornenema baldum*
- (16) *Thornenema elegans*
- (17) *Thornenema mauritianum*
- (18) *Sicaguttur sartum*
- (19) *Opisthodorylaimus maqsoodi*
- (20) *Aporeclaimellus heynsi*
- (21) *Aporcelaimellus shamimi*
- (22) *Aporcelaimellus indicus*
- (23) *Aporcelaimellus baqrii*
- (24) *Talanema mauritiense*
- (25) *Discolaimus major*
- (26) *Discolaimus silvivolus*
- (27) *Discolaimus tenax*
- (28) *Moshajia cultristyla*

**V The new species:**

- (1) *Mesodorylaimus andrassyi*
- (2) *Mesodorylaimus enigmatus*

- (3) *Mesodorylaimus parapotus*
- (4) *Mesodorylaimus indicus*
- (5) *Mesodorylaimus keralaensis*
- (6) *Prodorylaimus jihuai*
- (7) *Prodorylaimus sturhani*
- (8) *Laimydorus papillatus*
- (9) *Laimydorus mangalorensis*
- (10) *Laimydorus macrostylus*
- (11) *Thornenema coomansi*
- (12) *Indodorylaimus southindiae*
- (13) *Sicuguttur baqrii*
- (14) *Makatinus micropunctatus*
- (15) *Labronema mangloreense*
- (16) *Oriverutus pseudohastus*

**VI The male recorded for the first time:**

- (1) *Aporcelaimellus indicus*

**VII First report from India :**

- (1) *Laimydorus conurus*
- (2) *Thornenema elegans*
- (3) *Moshajia cultristyla*
- (4) *Discolaimus silvivolus*

**VIII SEM Observations made :**

- (1) *Laimydorus multialaeus*
- (2) *Thornenema mauritianum*
- (3) *Aporcelaimellus baqrii*
- (4) *Discolaimus tenax*