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Nota di contenuto	Preface -- Acknowledgements -- 1. Concept -- Morphological characterisation: distinctive features -- Biology -- Distribution -- Diversity -- 2. General aspect -- Size -- Shape -- Habitus -- Colour -- 3. Body wall and pseudocoel -- Cuticle -- Structure (layers) -- Surface ornamentation -- Specialisations -- Body pores -- Epidermis and lateral chords -- Somatic musculature -- Pseudocoel and its components -- 4. Lip region and amphids -- Lip region shape -- Profile (contour) -- Anterior margin -- Tapering -- Differentiation (separation from the adjoining body) -- Lips and their papillae -- General pattern -- Lips -- Papillae -- Oral aperture (mouth) -- Oral field -- Amphids -- Basic structure -- Position -- Aperture -- Fovea -- 5. Stoma and feeding apparatus -- Cheilostom -- Detailed structure -- General morphology -- Guiding ring -- Guiding sheath -- Mural tooth -- Axial odontostyle -- Odontophore -- Musculature associated with stoma -- 6. Digestive tract -- Pharynx -- General morphology -- Sections -- Ultrastructure -- Anterior section -- Enlargement -- Basal expansion and pharyngeal glands -- Basic patterns -- Pharyngo-intestinal junction -- Intestine proper -- Prerectum -- Rectum -- 7. Female genital system -- General concept and terminology -- Ovary -- Oviduct -- Sphincter -- Uterus -- Basic types -- Uterine special differentiations -- Vagina -- Vulva -- Malformations. 8. Male genital system -- General concept -- Testes -- Genital tract -- Spicules -- Lateral guiding pieces -- Gubernaculum -- Genital papillae

(supplements) and other papillae -- Specialised musculature -- Glands associated with male genital system -- 9. Nervous system and receptors -- Central nervous system -- Nerves -- Cephalic nervous system -- Pharyngeal nervous system -- Recto-sympathetic nervous system -- Sensory structures -- Chemoreceptors -- Amphids -- Other chemoreceptive elements -- Mechanoreceptors -- Labial and cephalic papillae -- Other mechanoreceptive elements -- 10. Caudal region -- General concept -- Tail shape -- Tail sexual dimorphism -- Postembryonic changes in tail shape -- Functional and evolutionary aspects of tail shape -- 11. Feeding habits and feeding behaviour -- Methodological constraints -- Feeding spectrum -- Feeding behaviour -- Food suitability and selection -- Feeding functional morphology -- Excretion and osmo-regulation in dorylaids -- 12. Reproduction and development -- Bisexual vs monosexual species -- Gametogenesis and egg production -- Embryonic development and hatching -- Postnatal development - general aspects -- Moulting process -- Genital system development -- Other (minor) postnatal changes -- Life cycle and life span -- 13. Ecology and Biogeography -- Rationale - dorylaids as K-strategists -- Dorylaids as components of nematode communities -- Local distribution -- Vertical (depth) distribution -- Temporal (seasonal) distribution -- Regional distribution -- Global distribution -- . The distribution of particular taxa - some examples -- Historic biogeography -- Phylogeography -- Dispersal and transport -- Chorological relationships -- Biotic interactions -- Dorylaids as bioindicators in a global change scenario -- Notes on survival -- 14. Diversity -- Historical outline -- The origins (1845-1920) -- The prodigious 1930s decade -- The order Dorylaimida setting -- The golden age of the exploration of dorylaimid diversity (1960-1990) -- A new era for an integrative approach -- The internal phylogeny of Dorylaimida -- Evolutionary relationships of Dorylaimida with other nematode taxa -- Dorylaids - members of the subclass Dorylaimia -- Mononchs - the closest relatives of dorylaids? -- Dorylaids and other animal-parasitic Dorylaimia -- Dorylaimida and other non-Dorylaimia -- Updated inventory of dorylaimid taxa -- Subject Index -- Cited Taxa Index.

Sommario/riassunto

Dorylaids are probably the most diverse order of nematodes and are often an abundant component of the fauna in soils and freshwater habitats. As a result of their widespread distribution and many different feeding habits, they are considered as good bio-indicators of environmental quality and soil health. Their usefulness in this regard is only impeded by practical difficulties related to the accurate identification of the members of such a large and complex group. In this volume, Professor Reyes Pena-Santiago gives a detailed morphology of the dorylaids and provides a thorough overview of their feeding behaviour, reproduction, ecology, and diversity. You will learn what dorylaids are like and how they live, making this book an invaluable tool for nematologists, ecologists and other scientists who wish to embark on an in-depth study of the members of this fascinating group.