SYNOPSIS OF THE THESIS

The present thesis deals with morphology, anatomy, systematic position and geographical distribution of "Helminth parasites of vertebrates specially nematodes from Maharashtra".

The helminthes described in this work belong to three groups i.e. Trematoda, Cestoda and Nematoda.

The parasites belong to 19 families, which include 22 genera and 23 species. The thesis is divided for the sake of convenience into three parts. Part I deals with Trematoda, Part II with Cestoda and Part III with Nematoda.

PART I

This part deals with the study of eight families, Opecoelidae, Isoparorchiidae, Clinostomidae, Microcoelidae, Architrematidae, Acanthostrongylidae, Echinostomidae and Paraphistomidae. Altogether 11 species are described. Out of which six species are new to the science. The other three species are reported from the new host and out of the remaining two, one is reported first time from India and other, the abnormality. The following species are included in this part.

1. Eucercadium yashodaasi n. sp.
2. Isoparorcha hypselochaeri (Billet, 1896) Ejemont, 1932
3 Clinostomum macrostomum Jaiswal, 1957
4 Paradiatomeidae roundae n. sp.
5 Anchitrema sanguinascu (Sonsino, 1954) Lecoq, 1899
6 Acanthostomum aluakakki Kalyankar, 1977
7 Singhitrema ali n. sp.
8 Naphrostomum nasirae n. sp.
9 Echinococyma anderseni n. sp.
10 Lutztraea monasteron (Price et al. McIntosh, 1935)
    Travassos, 1941
11 Cotylodeon ovia n. sp.

PART II

This part deals with cestodes belonging to the orders ANOPLOCEPHALIDEA, DILEPIDIDEA and HYMENOLEPIDIDEA Wardle et al., 1974 in which five species and one larval form belonging to the four genera from the families: THYSANOSOMIDAE, DILEPIDIDAE, DIPYLIDIDAE and HYMENOLEPIDIDAE Wardle et al., 1974 are described. Out of these, four new species are new to the science and one species is reported from the new host. The larval form of Joyauxiella Fuhrmann, 1935 is reported first time from the reptilian host. Keys to the species of Anchisida and Lenuinina are also provided. The following species are included in this part.

1 Anchisida Lonazi n. sp.
2 Lenuinina fotedari n. sp.
3 *Lamunugia angeli* n. sp.
4 *Joyauxiella verdai* n. sp.
5 *Joyauxiella* (larval form) Fuhrmann, 1938
6 *Vampirolopias balaaci* (Joyaux et Baer, 1934) Spacecky, 1954

**PART III**

This part deals with the study of seven families, *Trichostrongylidae*, *Aspidoderaidae*, *Spiruridae*, *Spiroxyinae*, *Acanthocephalidae*, *Anchylocephalidae* and *Subuluridae*. Altogether six new species are new to the science and one is reported. The key to the species of the genus *Oxynema* is given. The following species are included in this part.

1 *Harpasteostrongylus indicus* Deshmukh, 1969
2 *Pseudoaspidodera stagadulii* n. sp.
3 *Madjagia prachandran* n. sp.
4 *Hartertia merotii* n. sp.
5 *Dipharynx seni* n. sp.
6 *Stalbromena malani* n. sp.
7 *Oxynema vilayev* n. sp.

The following papers are submitted in support of the thesis "On a new species of *Superadiatoma* Tubangui, 1931 (Tricestoda: Dicinea; Dirocoeliidae) from India-
Rivista di Parasitologia, 36(1), 37-40 (1975) and "Redescrip-
tion of *Pedicobothrius kagawaeri* (Tetrathyliidae: Ocro-
bothriidae) Bagwan, 1975 - Marathwada Univ. J. Sci. 14(7),
247-249 (1975)."