Synopsis of the thesis

The manuscript comprises two parts of which the first deals with the nematodes of the orders Strongylidea, Oxyuridea, Ascarididea and Spiruridea. The second part is confined only to Filaridea.

The nematode parasites described in this work belong to twelve families which include twenty one genera and twenty seven species.

PART I

This part deals with the study of twelve families. Altogether ten new species are described and the other eight are reported, out of which one is recorded from a new host. Keys to the species of Physalopteroidae and Thelphusinae are also provided. The following species are included in this part:

1) Heterostrongylus bavliasi n.sp. 2) Ornithostrongylus columbia n.sp. 3) Pharyngodon megalocerca (Skrjabin, 1916) Seurat, 1917 4) Subulascaria cyanophylctis n.sp. 5) Habronema (Aviabronema) singhi Ali, 1961, 6) Sicarius dinterum Li, 1934 7) Spirulatus indica n.sp. 8) Spinitectus corti Moorthy, 1938 9) Desmidocercaella lainari Singh,

PART II

This part exclusively deals with the Filariiidea. One new genus is added to the subfamily Splendidofilariiinae. Two genera and two species of Onchocercinae and two genera and three species of Splendidofilariiinae are described. Three species, belonging to two genera from Dracunculidae are reported of which two are new. Keys to the species of Paronchocerca and Dracunculus are also provided. Eight species as listed below are described in this part:

1) Lemdana francolinia n.sp. 2) Paronchocerca thanari n.sp. 3) Thamugadia hemidactyli n.sp. 4) Neofilaria ali gen.et sp.nov. 5) Neofilaria buckleyi n.sp. 6) Dracunculus ali n.sp. 7) Dracunculus coluberensis n.sp. 8) Avioserpula multinillosa Singh, 1948.

The following paper is submitted in support of the thesis, "On a new species of the genus Saurositus"
from an Indian Lizard*. Journal of Helminthology