

THE GALLARD COLLECTION OF PARASITIC NEMATODES IN THE AUSTRALIAN MUSEUM.

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(Figures 1-18.)

During a period of many years, Mr. Luke Gallard, formerly an inspector belonging to the Department of Agriculture, New South Wales, made a collection of parasites, chiefly nematodes, from the fauna of the Gosford and Kenthurst districts where his official duties lay. This collection was placed in the Australian Museum and was recently forwarded to us for identification. Our thanks are due to the Director, Dr. A. B. Walkom, for the opportunity to study it. We also acknowledge assistance from the Commonwealth Research Grant to the University of Adelaide. All material, including types of the new species, is housed in the Museum, the registered numbers being indicated.

The following is a list of the identifications, arranged under their respective hosts:
PSEUDECHIS PORPHYRIACUS Shaw: *Physaloptera confusa* J. & M., Narara and Gosford.
Ophidascaris pyrrius n. sp., Narara. *Polydelphis* sp., Narara, Gosford.
PYTHON SPILOTES Lacep.: *Ophidascaris filaria* (Duj.), Tuggerah. *Polydelphis anoura* (Duj.), Tuggerah. *Polydelphis* sp. (? *anoura*), Gosford.
VARANUS VARIUS Shaw: *Physaloptera* sp., Kenthurst.
AMPHIBOLURUS BARBATUS Cuv.: *Strongyluris paronai* (Stoss.), Kenthurst. *Physaloptera gallardi* n. sp., Narara.
TILIQUA SCINCOIDES Shaw: *Pharyngodon australis* n. sp., Narara.
MENURA NOVAE-HOLLANDIAE Lath.: *Porrocaecum menurae* n. sp., Gosford.
MACRUPUS UALABATUS Less. & Garn. (= *Wallabia bicolor* Desm.): *Pharyngostrogylus gallardi* n. sp., Ourimbah.

STRONGYLATA.

Pharyngostrogylus gallardi n. sp. (Figs. 1-4.)

From the oesophagus of a black wallaby, *Macropus ualabatus*, from Ourimbah (W3252). Males and females present. Body filiform, strongly coiled in three to four spirals. Head rounded; six shallow lips, each with low rounded papilla, papillae on lateral lips smaller than those on sub-median. Vestibule 45μ long, 13μ internal diameter, walls transversely striated, thicker anteriorly than posteriorly. Oesophagus (in male) .75 mm. long, anterior portion .5 mm. long, widening somewhat towards base, terminated by sudden constriction, and followed by bulb .2 mm. long, .15 mm. wide. Nerve ring at level of oesophageal constriction; excretory pore in region of bulb.

Male: About 9 mm. in length. Spicules about .9 mm. long, with striated alae. Bursa not deeply lobed, inner surface devoid of papillae. Ventral rays equal, almost reaching bursal edge; ventro-laterals short, divergent from other laterals; medio- and postero-laterals of same length, not quite reaching bursal edge; externo-dorsal arising with laterals but divergent from them; dorsal bifurcating at one-third its length, each branch projecting slightly at margin of bursa, and giving off short lateral ray just beyond mid-length.

Female: About 15-18 mm. long. Body tapering posterior to vulva; tail pointed, directed dorsally. Vulva at .35 mm., and anus .23 mm., from tip of tail. Vagina .2 mm. long; ovejectors .35 mm. long. Eggs about 100μ by 50μ .