

# CONTENTS

PREFACE	... 7
INTRODUCTION	... 11
HISTORICAL REVIEW	... 15
METHODS OF STUDY OF PHILOMETRID NEMATODES	... 27
Examining fish hosts for the presence of philometrids	... 27
Fixation and preservation of philometrids	... 29
Examination of philometrids	... 30
Documentation	... 32
Life cycle studies	... 32
MORPHOLOGY AND TAXONOMIC FEATURES OF PHILOMETRIDS	... 35
Size and shape of body	... 42
Cuticular structures	... 42
Cephalic structures	... 43
Buccal capsule and oesophagus	... 43
Caudal end of male	... 44
Copulatory organs	... 44
Larvae from uterus	... 44
Rectum and anus in females	... 45
BIOLOGY OF PHILOMETRIDS	... 47
PATHOGENICITY AND SIGNIFICANCE OF PHILOMETRIDS	... 51
ALPHABETICAL LIST OF VALID SPECIES OF PHILOMETRIDS	... 55
SYSTEMATIC REVIEW OF PHILOMETRID NEMATODES	... 61
Family Philometridae	... 61
Subfamily Alineminae	... 62
Genus <i>Alinema</i>	... 62
Subfamily Neophilometroidinae	... 66
Genus <i>Neophilometroides</i>	... 66
Subfamily Philometrinae	... 72
Genus <i>Afrophilometra</i>	... 74
Genus <i>Barracudia</i>	... 76
Genus <i>Buckleyella</i>	... 82
Genus <i>Caranginema</i>	... 87
Genus <i>Clavinema</i>	... 91
Genus <i>Clavinemoides</i>	... 100
Genus <i>Congerinema</i>	... 102
Genus <i>Dentiphilometra</i>	... 104
Genus <i>Dentirumai</i>	... 113
Genus <i>Digitiphilometroides</i>	... 115

Genus *Nilonema* ... 118  
 Genus *Paraphilometroides* ... 122  
 Genus *Philometra* ... 125  
 Genus *Philometroides* ... 463  
 Genus *Rumai* ... 540  
 Genus *Spirophilometra* ... 542  
 HOST-PARASITE LIST ... 553  
 LIST OF PHILOMETRIDS (PHILOMETRIDAE) BY CONTINENTS ... 585  
 REFERENCES ... 589  
 INDEX ... 619