

ULTRASTRUCTURE DES MONOGÈNES: LISTES DES ESPÈCES ET DES ORGANES ÉTUDIÉS

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RÉSUMÉ

Les données bibliographiques (plus de 180 références) concernant l'ultrastructure des monogènes, en microscopie électronique à balayage (MEB) et microscopie électronique à transmission (MET), sont présentées sous la forme de deux listes. **La liste des espèces** étudiées indique pour chaque espèce les organes qui ont été décrits en microscopie électronique et la référence; plus de 60 espèces de Monopisthocotylea et 70 espèces de Polyopisthocotylea sont citées. **La liste des organes** indique pour chaque organe quelles espèces ont été étudiées et la référence. Les structures sont classées en: **1. Organes externes** (morphologie externe en MEB, tégument, récepteurs tégumentaires, photorécepteurs, glandes, pièces sclérifiées du hapteur). **2. Organes internes non reproducteurs** (appareil digestif, protonéphridies, cellules nerveuses). **3. Organes reproducteurs** (canaux génitaux mâles, canaux génitaux femelles, ovogenèse et oeufs, oeufs en MEB, vitellogenèse, spermiogenèse et sperme). **4. Hyperparasites et symbiontes** (microsporidies, bactéries et autres procaryotes, virus). Les travaux concernant des oncomiracidia ou des larves sont indiqués.

Mots-clés: Monogènes, ultrastructure, microscopie électronique, bibliographie.

ULTRASTRUCTURE OF THE MONOGENEA: LISTS OF INVESTIGATED SPECIES AND ORGANS

SUMMARY

Bibliographical data (more than 180 references) concerning the ultrastructure of monogeneans in scanning electron microscopy (SEM) or transmission electron microscopy (TEM) are presented in two lists. The **species list** indicates for each species the organs which have been described in electron microscopy and the reference; more than 60 monopisthocotylean species and 70 polyopisthocotylean species are cited. The **organ list** indicates for each organ the species studied and the references. The structures are classified into: **1. External organs** (external morphology in SEM, tegument, tegumentary receptors, photoreceptors, glands, haptor hard pieces). **2. Non-reproductive internal organs** (digestive apparatus, protonephridia, nerve cells). **3. Reproductive organs** (male genital ducts, female genital ducts, oogenesis and eggs, eggs in SEM, vitellogenesis, spermiogenesis and sperm). **4. Parasites and symbionts** (microsporidia, bacteria and other procaryotes, viruses). Studies concerning miracidia or larvae are indicated.

Key-words: Monogenea, ultrastructure, electron microscopy, bibliography.

INTRODUCTION

The Monogenea have been the subject of numerous ultrastructural studies. It seems that a complete bibliography of these studies has never been published, although it does exist for the Turbellarians (TYLER et al., 1986). However, some partial reviews have been published (EHLERS, 1985; FRIED & HASEEB, 1991; GALKIN, 1988; GERASEV & YUNCHIS, 1986; HALTON, 1982b; JUSTINE, 1991a; JUSTINE, 1991c; LYONS, 1973c;

LYONS, 1977; MALMBERG, 1990; ROHDE, 1982b; ROHDE, 1990; THREADGOLD, 1984; ULMER & ROHDE, 1978).

The present bibliography has been compiled through three methods: a computer-aided research in Helminthological Abstract and Biosis databases, the "snowball" method, and from the author's reprint collection.

The bibliography is ordered as follows:

— First, a list of species in alphabetical order. This list separates the Monopisthocotylea and the Polyopisthocotylea. Grouping the taxa into families has not been attempted since numerous Monogenea taxa have been recently described (see SPENCER JONES & GIBSON, 1990).

— Second, a list of organs, grouped according to larger systems:

1. External organs: external morphology in SEM, tegument, tegumentary receptors, photoreceptors, glands, haptor hard pieces

2. Non-reproductive internal organs: digestive apparatus, protonephridia, nerve cells.

3. Reproductive organs: male genital ducts, female genital ducts, oogenesis & eggs, eggs in SEM, vitellogenesis, spermiogenesis & sperm.

4. Parasites and symbionts: microsporidia, bacteria and other procaryotes, viruses.

Without specific indication, data concern adults observed with TEM; references concerning oncomiracidia, larvae and studies of SEM are indicated.

The present work is likely to contain errors or omissions, particularly for the SEM studies. I apologize in advance for these imperfections, and I would be much grateful to receive from the readers detailed lists of corrections and improvements, and reprints of missed works, in order to prepare an improved version in a few years. I hope the present work may be a useful tool for all researchers involved studies of in Monogenea and Platyhelminthes ultrastructure.

I thank G. MALMBERG who kindly provided some articles of uneasy access, and N. WATSON and K. ROHDE who sent manuscripts in press.

LIST OF SPECIES

Not named (!)

Tegument HOLMGREN, ROGERS & SCHOLES, 1968

Monopisthocotylea (in alphabetic order)

Acanthocotyle elegans

Tegument LYONS, 1968
LYONS, 1970a
Tegumentary receptors LYONS, 1969b

Acanthocotyle lobianchi

External morphology, SEM MALMBERG & FERNHOLM, 1991
Glands REES & KEARN, 1984
Spermiogenesis & sperm MALMBERG & AFZELIUS, 1990
TAPPENDEN & KEARN, 1990
JUSTINE *et al.*, 1993
Tegumentary receptors REES & KEARN, 1984

Amphibdella flavolineata

Tegument LYONS, 1971
Tegumentary receptors LYONS, 1969a

Amphibdella paronaperugiae

Spermiogenesis & sperm JUSTINE & MATTEI, 1988
JUSTINE, 1991b

<i>Amphibdelloides vallei</i> Spermiogenesis & sperm	JUSTINE & MATTEI, 1983c
<i>Amphibdelloides</i> spp. Spermiogenesis & sperm	JUSTINE & MATTEI, 1983c
Ancyrocephalinae Gen. sp. Protonephridia	ROHDE, WATSON & ROUBAL, 1989
<i>Anoplodiscus australis</i> External morphology, SEM Glands Tegument	ROUBAL & WHITTINGTON, 1990 ROUBAL & WHITTINGTON, 1990 ROUBAL & WHITTINGTON, 1990
<i>Anoplodiscus cirruspiralis</i> Protonephridia Spermiogenesis & sperm	ROHDE, WATSON & ROUBAL, 1992 WATSON & ROHDE, 1992
<i>Benedenia</i> sp. External morphology, SEM	CONES & BEVERLEY-BURTON, 1981
<i>Caballerocotyla</i> sp. Spermiogenesis & sperm	JUSTINE, 1985 JUSTINE & MATTEI, 1987
<i>Calceostoma herculeana</i> Protonephridia Spermiogenesis & sperm	ROHDE, JUSTINE & WATSON, 1989 JUSTINE & MATTEI, 1986b
<i>Calicotyle kroyeri</i> Digestive apparatus Mehlis' gland Oogenesis Spermiogenesis & sperm Vitellogenesis	HALTON & STRANOCK, 1976a HALTON & STRANOCK, 1976b STRANOCK & HARDCASTLE, 1975 HALTON, STRANOCK & HARDCASTLE, 1976 TAPPENDEN & KEARN, 1991a HALTON, STRANOCK & HARDCASTLE, 1974
<i>Cichlidogyrus halli</i> Female genital ducts Glands Haptoral hooklets Parasites & symbionts Spermiogenesis & sperm Tegument Tegumentary receptors	EL-NAGGAR, KHIDR & KEARN, 1990 EL-NAGGAR & KEARN, 1989 EL-NAGGAR, 1992 EL-NAGGAR & KEARN, 1989 EL-NAGGAR, KHIDR & KEARN, 1990 EL-NAGGAR, KHIDR & KEARN, 1991 EL-NAGGAR, KHIDR & KEARN, 1991
<i>Cleithrarticus beninensis</i> Spermiogenesis & sperm	JUSTINE & MATTEI, 1982 JUSTINE, 1991b
<i>Cleithrarticus</i> sp. Spermiogenesis & sperm	JUSTINE & MATTEI, 1982 JUSTINE, 1991b
<i>Cycloplectanum hongkongensis</i> External morphology, SEM	LIN & LI, 1991
<i>Cycloplectanum lantauensis</i> External morphology, SEM	LIN & LI, 1991
<i>Dactylogyrus amphibothrium</i> Glands Tegument	EL-NAGGAR & KEARN, 1980 EL-NAGGAR & KEARN, 1983b
<i>Dactylogyrus aristichthys</i> External morphology, SEM	LI & FENG, 1991

<i>Dactylogyrus extensus</i> External morphology, SEM	SCHMAHL, RAETHER & MEHLHORN , 1992
<i>Dactylogyrus hemiamphibothrium</i> Glands Tegument	EL-NAGGAR & KEARN, 1980 EL-NAGGAR & KEARN, 1983b
<i>Dactylogyrus vastator</i> Tegument	MEHLHORN <i>et al.</i> , 1988
<i>Dactylogyrus</i> sp. External morphology, SEM Protonephridia	EHLERS, 1985 ROHDE, WATSON & ROUBAL, 1989
<i>Dermophthirius carcharhini</i> External morphology, SEM Tegument	RAND, WILES & ODENSE, 1986 RAND, WILES & ODENSE, 1986
<i>Dionchus remorae</i> Eggs, SEM Oogenesis Spermiogenesis & sperm	WHITTINGTON, 1990 JUSTINE & MATTEI, 1986a JUSTINE, LAMBERT & MATTEI, 1985 JUSTINE & MATTEI, 1987
<i>Diplectanum banyulensis</i> Spermiogenesis & sperm	JUSTINE, 1985 JUSTINE, 1991b
<i>Diplectanum aequans</i> External morphology, SEM Male genital ducts, SEM Parasites & symbionts Spermiogenesis & sperm Squamodisc Tegument	OLIVER, 1976a OLIVER, 1976b MAILLARD, GONZALEZ & NOISY, 1982 MOKHTAR-MAAMOURI <i>et al.</i> , 1976 OLIVER <i>in</i> JUSTINE, 1991b OLIVER, 1976 SHAW, 1981a SHAW, 1980 SHAW, 1981a
<i>Diplectanum</i> sp. Spermiogenesis & sperm	JUSTINE & MATTEI, 1982b JUSTINE & MATTEI, 1984b
<i>Discocotyle sagittata</i> Haptoral sclerites, SEM	MO & APPLEBY, 1990
<i>Encotyllabe</i> sp. Spermiogenesis & sperm	JUSTINE, 1991b JUSTINE, MATTEI & EUZET, 1991
<i>Enterogyrus</i> sp. External morphology, SEM	CONE, GRATZEK & HOFFMAN, 1987
<i>Entobdella hipoglossi</i> Spermiogenesis & sperm	TAPPENDEN & KEARN, 1991 b
<i>Entobdella soleae</i> Glands External morphology, SEM Eggs, SEM Photoreceptors, Onco. Male genital ducts Spermiogenesis & sperm Tegument	EL NAGGAR & KEARN, 1983a LYONS, 1970a LYONS, 1973b EL NAGGAR & KEARN, 1983a KEARN, 1986 KEARN & BAKER, 1973 TAPPENDEN & KEARN, 1991a TAPPENDEN & KEARN, 1991 b LYONS, 1968

	LYONS, 1970a
Tegument, Onco.	LYONS, 1973a
Tegumentary receptors	LYONS, 1969a
	LYONS, 1973b
Tegumentary receptors, Onco.	LYONS, 1969a
	LYONS, 1969b
<i>Euzetrema knoepffleri</i>	
Digestive apparatus	FOURNIER, 1978
	FOURNIER, 1980a
External morphology, SEM	FOURNIER, 1980a
Oogenesis	FOURNIER, 1980a
Parasites & symbionts	FOURNIER, 1980a
	FOURNIER, COMBES & VAGO, 1975
	FOURNIER, VAGO & COMBES, 1976
Photoreceptors	FOURNIER, 1975
	FOURNIER, 1980a
	FOURNIER, 1980b
Protonephridia	FOURNIER, 1980a
Spermiogenesis & sperm	FOURNIER, 1980a
Tegument	FOURNIER, 1976
	FOURNIER, 1980a
Tegument, Oncomiracidium	FOURNIER, 1976
	FOURNIER, 1980a
Tegumentary receptors	FOURNIER, 1980a
Vitellogenesis	FOURNIER, 1980a
<i>Fundulotrema prolongis</i>	
External morphology, SEM	CONE & ODENSE, 1988
<i>Furnestinia echeneis</i>	
Spermiogenesis & sperm	JUSTINE, LAMBERT & MATTEI, 1985
	JUSTINE, 1985
	JUSTINE, 1991b
<i>Gyrdicotylus gallieni</i>	
External morphology, SEM	HARRIS & TINSLEY, 1987
<i>Gyrodactylus arcuatus</i>	
External morphology, SEM	SCHMAHL, MEHLHORN & HABERKORN, 1988
<i>Gyrodactylus aculeati</i>	
External morphology, SEM	MEHLHORN, 1988
Tegument	MEHLHORN <i>et al.</i> , 1988
<i>Gyrodactylus colemanensis</i>	
External morphology, SEM	CONE & CUSACK, 1988
Tegument	CONE & WILES, 1989
<i>Gyrodactylus eucaliae</i>	
Digestive apparatus	KRITSKY, 1971
External morphology, SEM	KRITSKY & KRUIDENIER, 1976
Glands	KRITSKY, 1971
	KRITSKY, 1978
Oogenesis	KRITSKY, 1971
Protonephridia	KRITSKY, 1971
Spermiogenesis & sperm	KRITSKY, 1976
Tegument	KRITSKY, 1971
	KRITSKY & KRUIDENIER, 1976
Tegumentary receptors	KRITSKY, 1971
	KRITSKY & KRUIDENIER, 1976
<i>Gyrodactylus salaris</i>	
External morphology, SEM	MALMBERG & MALMBERG, 1986

Haptoral sclerites, SEM	MALMBERG, 1987 MALMBERG, 1988 MO & APPLEBY, 1990
<i>Gyrodactylus salmonis</i> External morphology, SEM	CONE & CUSACK, 1988
<i>Gyrodactylus</i> spp. Eggs External morphology, SEM	JONES & WHITTINGTON, 1992 LYONS, 1970b KRITSKY, 1978 CONE & ODENSE, 1984 THULIN, HÖGLUND & LINDESJÖÖ, 1989 HALTON <i>in</i> FRIED & HASEEB, 1991
Haptoral sclerites Protonephridia Tegument	KAYTON, 1986 ROHDE, 1989 LYONS, 1968 LYONS, 1970b LYONS, 1969a LYONS, 1969b
Tegumentary receptors	
<i>Heterocotyle</i> sp. Spermiogenesis & sperm	JUSTINE & MATTEI, 1983b
<i>Isancistrum</i> sp. Spermiogenesis & sperm	MALMBERG & LILJEMARK <i>in</i> JUSTINE <i>et al.</i> , 1993
<i>Lamellodiscus elegans</i> Spermiogenesis & sperm	JUSTINE, LAMBERT & MATTEI, 1985 JUSTINE, 1985 JUSTINE, 1991 b
<i>Lamellodiscus ergensi</i> Spermiogenesis & sperm	JUSTINE, LAMBERT & MATTEI, 1985 JUSTINE, 1985 JUSTINE, 1991 b
<i>Lamellodiscus ignoratus</i> Spermiogenesis & sperm	JUSTINE, LAMBERT & MATTEI, 1985 JUSTINE, 1985 JUSTINE, 1991 b
<i>Leptocotyle minor</i> Hooklets, Oncomiracidium Tegument Tegumentary receptors	KEARN & GOWING, 1990 LYONS, 1968 LYONS, 1969a
<i>Loimosina wilsoni</i> Protonephridia Spermiogenesis & sperm	ROHDE, JUSTINE & WATSON, 1989 JUSTINE & MATTEI, 1985d
<i>Lophocotyle novaezeelandica</i> External morphology, SEM	MALMBERG & FERNHOLM, 1989
<i>Macrogyrodactylus polypteri</i> Spermiogenesis & sperm	SCHMAHL & ELWASILA, 1992
<i>Megalocotyle grandiloba</i> Spermiogenesis & sperm	JUSTINE & MATTEI, 1983a JUSTINE, 1983
<i>Megalocotyle hexacantha</i> Spermiogenesis & sperm	JUSTINE, LAMBERT & MATTEI, 1985 JUSTINE & MATTEI, 1987 JUSTINE, 1991b

<i>Myxinidocotyle californica</i>	
External morphology, SEM	MALMBERG & FERNHOLM, 1989 MALMBERG & FERNHOLM, 1991
Spermiogenesis & sperm	MALMBERG & AFZELIUS, 1990 JUSTINE <i>et al.</i> , 1993
<i>Onchocleidus cyanellus</i>	
External morphology, SEM	DUOBINIS-GRAY, TOOLE & CORKUM, 1985
Tegumentary receptors	DUOBINIS-GRAY, TOOLE & CORKUM, 1985
<i>Oogyrodactylus farlowellae</i>	
External morphology, SEM	HARRIS, 1983
<i>Pseudodactylogyrus anguillae</i>	
External morphology, SEM	BUCHMANN, KØIE & PRENTØ, 1987
Spermiogenesis & sperm	LE BRUN, LAMBERT & JUSTINE, 1986 JUSTINE, 1991b MEHLHORN, 1988
<i>Pseudodactylogyrus bini</i>	
Spermiogenesis & sperm	SCHMAHL & ELWASILA, 1992
External morphology, SEM	BUCHMANN, 1988a BUCHMANN, 1988b
<i>Tetraonchoides</i> sp.	
Spermiogenesis & sperm	JUSTINE, MATTEI & EUZET, 1991
<i>Tetraonchus monenteron</i>	
Digestive apparatus	JUNCHIS, 1988
External morphology, SEM	KEARN & GOWING, 1989
Glands	KEARN & GOWING, 1989
Haptoral sclerites	KEARN & GOWING, 1989
Spermiogenesis & sperm	KEARN <i>in</i> FRIED & HASEEB, 1991 JUSTINE, 1985 JUSTINE, 1991b
<i>Trochopus pini</i>	
Spermiogenesis & sperm	KTARI, 1971 TUZET & KTARI, 1971b
<i>Urocleidus adspectus</i>	
External morphology, SEM	CONE, 1979 CONE & BURT, 1981

Polyopisthocotylea (in alphabetic order)

<i>Atriasper (Atriasper) sp.</i>	
Spermiogenesis & sperm	JUSTINE, 1992
Tegument	JUSTINE, 1992
<i>Atriasper (Atrispinum) sargui</i>	
Spermiogenesis & sperm	JUSTINE, 1985 JUSTINE, 1991b
<i>Axine</i> sp.	
Spermiogenesis & sperm	JUSTINE & MATTEI, 1985b JUSTINE, 1991b
<i>Bicotyle vellavoli</i>	
External morphology, SEM	RAMASAMY & HANNA, 1986a
<i>Bifurcohaptor lucknowensis</i>	
External morphology, SEM	AGRAWAL & SHARMA, 1990
<i>Cemocotyle</i> sp.	
Spermiogenesis & sperm	JUSTINE & MATTEI, 1985c JUSTINE, 1991b

<i>Chimaericola leptogaster</i>	
Eggs, SEM	PASCOE, 1987
External morphology, SEM	PASCOE, 1987
<i>Choricotyle pagelli</i>	
Spermiogenesis & sperm	KTARI, 1971 TUZET & KTARI, 1971b
<i>Concinnocotyla australensis</i>	
Eggs, SEM	WHITTINGTON & PICHELIN, 1991
External morphology, SEM	PICHELIN, WHITTINGTON & PEARSON, 1991
<i>Diclidophora denticulata</i>	
Vitellogenesis	HALTON, STRANOCK & HARDCASTLE, 1974
<i>Diclidophora luscae</i>	
Clamps	SHAW, 1979b
<i>Diclidophora macruri</i>	
External morphology, SEM	PASCOE, 1987
<i>Diclidophora merlangi</i>	
Digestive apparatus	HALTON, DERMOTT & MORRIS, 1968 HALTON, 1975 HALTON, 1982a HALTON & MORRIS, 1975 HALTON, MORRIS & DERMOTT, 1968 HALTON, MORRIS & HARDCASTLE, 1974 MORRIS, 1973 HALTON, 1979
External morphology, SEM	HALTON <i>et al.</i> 1991
Female genital ducts	HALTON & HARDCASTLE, 1977
Male genital ducts	MACDONALD & CALEY, 1975
Oogenesis	HALTON, STRANOCK & HARDCASTLE, 1976
Parasites & symbionts	MORRIS & HALTON, 1975
Spermiogenesis & sperm	MACDONALD & CALEY, 1975 HALTON & HARDCASTLE, 1976 HALTON & HARDCASTLE, 1977
Tegument	MORRIS & HALTON, 1971
Tegumentary receptors	HALTON & MORRIS, 1969
Vitellogenesis	HALTON, STRANOCK & HARDCASTLE, 1974 IRWIN <i>in</i> FRIED & HASEEB, 1991
<i>Diclidophora</i> sp.	
Spermiogenesis & sperm	KTARI, 1971 TUZET & KTARI, 1971b
<i>Dicybothrium armatum</i>	
External morphology, SEM	WRIGHT & DECHTIAR, 1974
Tegument	SLUSAREV, 1983
<i>Diplorchis hangzhouensis</i>	
Tegument	ZHANG & LANG, 1990
<i>Diplorchis nigromaculatus</i>	
External morphology, SEM	LIU, JIANG & LONG, 1988
<i>Diplorchis</i> sp.	
Photoreceptors, Onco.	ZHANG, 1987
<i>Diplozoon gracile</i>	
External morphology, SEM	LE BRUN, 1988
Spermiogenesis & sperm	JUSTINE, LE BRUN & MATTEI, 1985a JUSTINE, LE BRUN & MATTEI, 1985 b

<i>Diplozoon homoion</i>	
External morphology, SEM	LE BRUN, 1988
<i>Diplozoon lucknowensis</i>	
External morphology, SEM	SHUKLA, 1990
<i>Diplozoon nipponicum</i>	
External morphology, SEM	LAMBERT, LE BRUN & RENAUD, 1987 LE BRUN, 1988
<i>Diplozoon paradoxum</i>	
External morphology, SEM	LE BRUN, 1988
Mehlis' gland	STRANOCK & HALTON, 1975
Oogenesis	HALTON, STRANOCK & HARDCASTLE, 1976
Photoreceptors, Onco.	KEARN, 1978
Vitellogenesis	HALTON, STRANOCK & HARDCASTLE, 1974
<i>Erpocotyle catenulata</i>	
Spermiogenesis & sperm	KTARI, 1971 TUZET & KTARI, 1971b
<i>Eupolystoma alluandi</i>	
Digestive apparatus	FOURNIER, 1980a
Photoreceptors	FOURNIER, 1980a
Protonephridia	FOURNIER, 1980a
Tegument	FOURNIER, 1979
	FOURNIER, 1980a
Tegumentary receptors	FOURNIER, 1980a
Vitellogenesis	FOURNIER, 1980a
<i>Gastrocotyle trachuri</i>	
Clamps	SHAW, 1979a SHAW, 1979b
Nerve cells	SHAW, 1981b
Tegument	LYONS, 1968 SHAW, 1982
<i>Gastrocotyle sp.</i>	
Spermiogenesis & sperm	SCHMAHL & OBIEKEZIE, 1991
<i>Gotocotyla acanthura</i>	
Spermiogenesis & sperm	JUSTINE & MATTEI, 1985a JUSTINE, 1991b
<i>Gotocotyla bivaginalis</i>	
External morphology, SEM	RAMASAMY & HANNA, 1989
<i>Gotocotyla secunda</i>	
Digestive apparatus	ROHDE, 1979
External morphology, SEM	RAMASAMY & HANNA, 1989
Protonephridia	ROHDE, 1980
Spermiogenesis & sperm	ROHDE, 1980
Tegument	ROHDE, 1980
Tegumentary receptors	ROHDE, 1980 ROHDE, 1980
<i>Heterapta chorinemi</i>	
External morphology, SEM	RAMASAMY & HANNA, 1986b RAMASAMY in FRIED & HASEEB, 1991
<i>Heteraxine sp.</i>	
Spermiogenesis & sperm	JUSTINE & MATTEI, 1985c JUSTINE, 1991b
<i>Heteraxinoides xanthophilis</i>	
Eggs, SEM	THONEY in FRIED & HASEEB, 1991
Ext. morphology, SEM, Onco.	THONEY, 1988

<i>Heteraxinoides</i> sp. Spermiogenesis & sperm	JUSTINE & MATTEI, 1985c JUSTINE, 1991b
<i>Hetromicrocotyloides mirabilis</i> Digestive apparatus	ROHDE, 1979
<i>Hexostoma euthynni</i> Digestive apparatus Protonephridia	ROHDE, 1980 ROHDE, 1980
<i>Hexostoma</i> sp. Spermiogenesis & sperm	JUSTINE & MATTEI, 1984a
<i>Kuhnia scombri</i> Clamps	SHAW, 1979b
<i>Kuhnia</i> sp. Spermiogenesis & sperm	JUSTINE & MATTEI, 1985b
<i>Mazocraeoides olentangiensis</i> External morphology, SEM	WRIGHT & DECHTIAR, 1974
<i>Metamicrocotyla macracantha</i> External morphology, SEM	KOHN, COHEN & BAPTISTA-FARIAS, 1991
<i>Microcotyle chrysophrii</i> Spermiogenesis & sperm	JUSTINE & MATTEI, 1985b JUSTINE, 1985 JUSTINE, 1991b
<i>Microcotyle donavini</i> Clamps	SHAW, 1979b
<i>Microcotyle erythrini</i> Spermiogenesis & sperm	KTARI, 1971 TUZET & KTARI, 1971b
<i>Microcotyle labracis</i> External morphology, SEM	OLIVER, 1981
<i>Microcotyle mormyri</i> Spermiogenesis & sperm	KTARI, 1971 TUZET & KTARI, 1971b
<i>Microcotyle sebastis</i> External morphology, SEM Nerve cells Spermiogenesis & sperm Tegumentary receptors	ALYOUSIF, 1986 TIEKOTTER, 1988 YOUSIF & CRANE, 1979 CRANE & NOLEN, 1979
<i>Microcotyle spinicirrus</i> Clamps External morphology, SEM	MERGO & CRITES, 1982b MERGO & CRITES, 1984 MERGO & CRITES, 1982a
<i>Microcotyle</i> spp. Parasites & symbionts Spermiogenesis & sperm Tegument	JUSTINE & BONAMI, 1993 JUSTINE & MATTEI, 1985b JUSTINE & BONAMI, 1993 JUSTINE, 1985 JUSTINE, 1991b
<i>Neodiplorchis scaphiopodis</i> Female genital ducts Oogenesis Photoreceptors Vitellogenesis	CABLE & TINSLEY, 1991b CABLE & TINSLEY, 1991b CABLE & TINSLEY, 1991a CABLE & TINSLEY, 1991b

<i>Neodiscocotyle carpioditis</i>	
External morphology, SEM	WRIGHT & DECHTIAR, 1974
<i>Octoplectanocotyla aphanopi</i>	
External morphology, SEM	PASCOE, 1987
<i>Paracyclococtyla cherbonnieri</i>	
External morphology, SEM	PASCOE, 1987
<i>Paramicrocotyloides reticularis</i>	
Digestive tract	ROHDE, 1981 ROHDE, 1986
Glands	ROHDE, 1986
<i>Plectanocotyle gurnardi</i>	
Clamps	SHAW, 1979b
Eggs, SEM	WHITTINGTON & KEARN, 1989
Spermiogenesis & sperm	KTARI, 1971 TUZET & KTARI, 1971b
Tegument	LYONS, 1972
<i>Polystoma australis</i>	
External morphology, SEM	KOK & DU PREEZ, 1989
Ext. morphology, Onco., SEM	DU PREEZ & KOK, 1987
<i>Polystoma integerrimum</i>	
Digestive apparatus	FOURNIER, 1980a
External morphology, SEM	MEHLHORN <i>et al.</i> , 1988
Parasites & symbionts	BEKKOUCHE & DUPOUY, 1976
Photoreceptors	FOURNIER & COMBES, 1978 FOURNIER, 1978b FOURNIER, 1980a FOURNIER, 1980b
Protonephridia	FOURNIER, 1980a
Nerve cells	SKOWERSKA & CZECHOWICZ, 1985
Spermiogenesis & sperm	BEKKOUCHE, FOURNIER & PEYRIÈRE, 1974
Tegument	BRESCIANI, 1973 FOURNIER, 1979 FOURNIER, 1980a
Tegument, Oncomiracidium	BRESCIANI <i>in</i> LUMSDEN, 1975
Tegumentary receptors	DUPOUY, 1975 FOURNIER, 1979 FOURNIER, 1980a FOURNIER, 1980b
Vitellogenesis	FOURNIER, 1980a
<i>Polystoma pelobatis</i>	
Tegument	FOURNIER, 1979 FOURNIER, 1980a
Tegument, Oncomiracidium	FOURNIER, 1979
Vitellogenesis	FOURNIER, 1980a
<i>Polystoma sp.</i>	
Ext. morphology, Onco., SEM	BEVERLEY-BURTON <i>in</i> FRIED & HASEEB, 1991
<i>Polystomoides asiaticus</i>	
Digestive apparatus	ALLEN & TINSLEY, 1989
Protonephridia	ROHDE, 1975 ROHDE, 1982a
Spermiogenesis & sperm	ROHDE, 1971 ROHDE, 1975
<i>Polystomoides bourgati</i>	
Spermiogenesis & sperm	JUSTINE, 1985

<i>Polystomoides chabaudi</i>	
Digestive apparatus	ALLEN & TINSLEY, 1989
<i>Polystomoides malayi</i>	
Digestive apparatus	ROHDE, 1973b ROHDE, 1974 ALLEN & TINSLEY, 1989
Nerve cells	ROHDE, 1972
Protonephridia	ROHDE, 1973a
Spermiogenesis & sperm	ROHDE, 1971 ROHDE, 1975
Tegument	ROHDE, 1973c
Tegumentary receptors	ROHDE, 1972
<i>Polystomoides renschi</i>	
Digestive apparatus	ROHDE, 1973b ROHDE, 1974
Protonephridia	ROHDE, 1973a
Nerve cells	ROHDE, 1972
Tegument	ROHDE, 1973c
Tegumentary receptors	ROHDE, 1972
<i>Polystomoides</i> sp.	
Digestive apparatus	ALLEN & TINSLEY, 1989
Tegumentary receptors	ROHDE <i>in</i> FRIED & HASEEB, 1991
<i>Pricea multae</i>	
External morphology, SEM	RAMASAMY, HANNA & THREADGOLD, 1986
Glands	RAMASAMY, HANNA & THREADGOLD, 1986
Tegument	RAMASAMY, HANNA & THREADGOLD, 1986
Tegumentary receptors	RAMASAMY, HANNA & THREADGOLD, 1986
<i>Protomicrocotyle ivoriensis</i>	
Spermiogenesis & sperm	SCHMAHL & OBIEKEZIE, 1991
<i>Protopolystoma xenopi</i>	
Digestive apparatus	TINSLEY, 1973 TINSLEY, 1974
<i>Pseudaxine trachuri</i>	
Clamps	SHAW, 1979b
Pseudodiplorchis americanus	
Female genital ducts	CABLE & TINSLEY, 1991b
Gut, with Bacteria	CABLE & TINSLEY, 1992a
Oogenesis	CABLE & TINSLEY, 1991b
Parasites & symbionts	CABLE & TINSLEY, 1992a
Photoreceptors	CABLE & TINSLEY, 1991a
Tegument	CABLE & TINSLEY, 1992c
Tegument, Larva	CABLE & TINSLEY, 1992b CABLE & TINSLEY, 1992c
Vitellogenesis	CABLE & TINSLEY, 1991b
<i>Pseudomazocraes</i> sp.	
Spermiogenesis & sperm	JUSTINE & MATTEI, 1985b
<i>Pseudothoracocotyla indica</i>	
External morphology, SEM	RAMASAMY & HANNA, 1985
<i>Pterinotrema</i> sp.	
Spermiogenesis & sperm	JUSTINE, 1985 JUSTINE, 1991b
<i>Pyragraphorus pyragraphorus</i>	
Spermiogenesis & sperm	JUSTINE & MATTEI, 1985b JUSTINE, 1991b

<i>Rajonchocotyle emarginata</i>		WHITTINGTON & KEARN, 1986
Ext. morphology, SEM, Onco.		WHITTINGTON, 1987
Tegument		LYONS, 1968 LYONS, 1972
<i>Sphyranura</i> sp.		KEARN, 1984
Photoreceptor		OLIVER & EUZET <i>in</i> JUSTINE, 1991b
Spermiogenesis & sperm		
<i>Vallisia indica</i>		RAMASAMY, HANNA & THREADGOLD, 1987
External morphology, SEM		RAMASAMY, HANNA & THREADGOLD, 1987
Tegument		RAMASAMY, HANNA & THREADGOLD, 1987
Tegumentary receptors		
<i>Zeuxapta seriolae</i>		ROHDE, 1981
Digestive tract		ROHDE, 1986
Glands		ROHDE, 1986
Parasites & symbionts		ROHDE, 1986

ORGAN LIST

1. External organs

External morphology, scanning electron microscope

Monopisthocotylea

<i>Acanthocotyle lobianchi</i>	MALMBERG & FERNHOLM, 1991
<i>Anoplodiscus australis</i>	ROUBAL & WHITTINGTON, 1990
<i>Benedenia</i> sp.	CONE & BEVERLEY-BURTON, 1981
<i>Cycloplectanum honkongensis</i>	LIN & LI, 1991
<i>Cycloplectanum lantauensis</i>	LIN & LI, 1991
<i>Dactylogyrus aristichthys</i>	LI & FENG, 1991
<i>Dactylogyrus extensus</i>	SCHMAHL, RAETHER & MEHLHORN, 1992
<i>Dactylogyrus</i> sp.	EHLERS, 1985
<i>Dermophthirius carcharini</i>	RAND, WILES & ODENSE, 1986
<i>Diplectanum aequans</i>	OLIVER, 1976a; OLIVIER, 1976b
<i>Enterogyrus</i> sp.	CONE, GRATZEK & HOFFMAN, 1987
<i>Entobdella soleae</i>	LYONS, 1970a; LYONS, 1973b EL-NAGGAR & KEARN, 1983
<i>Euzetrema knoepffleri</i>	FOURNIER, 1980a
<i>Fundulotrema prolongis</i>	CONE & ODENSE, 1988
<i>Gyrdicotylus gallieni</i>	HARRIS & TINSLEY, 1987
<i>Gyrodactylus aculeati</i>	MEHLHORN <i>et al.</i> , 1988
<i>Gyrodactylus arcuatus</i>	SCHMAHL, MEHLHORN & HABERKORN, 1988
<i>Gyrodactylus colemanensis</i>	CONE & CUSACK, 1988
<i>Gyrodactylus eucaliae</i>	KRITSKY & KRUIDENIER, 1976
<i>Gyrodactylus salaris</i>	MALMBERG & MALMBERG, 1986 MALMBERG, 1987; MALMBERG, 1988
<i>Gyrodactylus salmonis</i>	CONE & CUSACK, 1988
<i>Gyrodactylus</i> sp.	LYONS, 1970a; KRITSKY, 1978 CONE & ODENSE, 1984 THULIN, HÖGLUND & LINDESJÖÖ, 1989 HALTON <i>in</i> FRIED & HASEEB, 1991
<i>Lophocotyle novaezeelandica</i>	MALMBERG & FERNHOLM, 1989
<i>Myxinidocotyle californica</i>	MALMBERG & FERNHOLM, 1989 MALMBERG & FERNHOLM, 1991
<i>Onchocleidus cyanellus</i>	DUOBINIS-GRAY, TOOLE & CORKUM, 1985
<i>Oogyrodactylus farlowellae</i>	HARRIS, 1983
<i>Pseudodactylogyrus anguillae</i>	BUCHMANN, KØIE & PRENTØ, 1987

Pseudodactylogyrus bini
Tetraonchus monenteron

BUCHMANN, 1988a; BUCHMANN, 1988b
KEARN & GOWING, 1989
KEARN *in* FRIED & HASEEB, 1991
CONE, 1979; CONE & BURT, 1981

Urocleidus adspectus

Polyopisthocotylea

Bicotyle vellavoli
Bifurcohaptor lucknowensis
Chimaericola leptogaster
Concinnocotyla australensis
Diclidophora macruri
Diclidophora merlangi

RAMASAMY & HANNA, 1986a
AGRAWAL & SHARMA, 1990
PASCOE, 1987
PICHELIN, WHITTINGTON & PEARSON, 1991
PASCOE, 1987
MORRIS, 1973; HALTON, 1979
IRWIN *in* FRIED & HASEEB, 1991
WRIGHT & DECHTIAR, 1974
LIU, JIANG & LONG, 1988

Dicybothrium armatum
Diplorchis nigromaculatus
Diplozoon gracile
Diplozoon homoion
Diplozoon lucknowensis
Diplozoon nipponicum

LE BRUN, 1988
LE BRUN, 1988
SHUKLA, 1990
LAMBERT, LE BRUN & RENAUD, 1987
LE BRUN, 1988
LE BRUN, 1988

Diplozoon paradoxum
Gotocotyla bivaginalis
Gotocotyla secunda
Heterapta chorinemi

RAMASAMY & HANNA, 1989
RAMASAMY & HANNA, 1989
RAMASAMY & HANNA, 1986b
RAMASAMY *in* FRIED & HASEEB, 1991
THONEY, 1988
WRIGHT & DECHTIAR, 1974

Heteraxinoides xanthophilus, Onco.
Mazocraeoides olentangiensis
Metamicrocotyla macracantha
Microcotyle labracis
Microcotyle sebastis
Microcotyle spinicirrus
Neodiscocotyle carpioditis
Octoplectanocotyla aphanopi
Paracycloctyla cherbonnieri
Polystoma australis
Polystoma australis, Onco.
Polystoma integerrimum
Polystoma sp., Onco.
Pricea multae
Pseudothoracocotyla indica
Rajonchocotyle emarginata, Onco.

KOHN, COHEN & BAPTISTA-FARIAS, 1991
OLIVER, 1981
ALYOUSIF, 1986
MERGO & CRITES, 1982a
WRIGHT & DECHTIAR, 1974
PASCOE, 1987
PASCOE, 1987
KOK & DU PREEZ, 1989
DU PREEZ & KOK, 1987
MEHLHORN *et al.*, 1988
BEVERLEY-BURTON *in* FRIED & HASEEB, 1991
RAMASAMY, HANNA & THREADGOLD, 1986
RAMASAMY & HANNA, 1985
WHITTINGTON, 1987
WHITTINGTON & KEARN, 1986
RAMASAMY, HANNA & THREADGOLD, 1984

Vallisia indica

Tegument

not named

HOLMGREN, ROGERS & SCHOLES, 1968

Monopisthocotylea

Acanthocotyle elegans
Amphibdella flavolineata
Anoplodiscus australis
Cichlidogyrus halli
Dactylogyrus amphibothrium
Dactylogyrus hemiamphibothrium
Dactylogyrus vastator
Dermophthirius carcharini
Diplectanum aequans
Entobdella soleae
Entobdella soleae, Onco.

LYONS, 1968; LYONS, 1970a
LYONS, 1971
ROUBAL & WHITTINGTON, 1990
EL-NAGGAR, KHIDR & KEARN, 1991
EL-NAGGAR & KEARN, 1983
EL-NAGGAR & KEARN, 1983
MEHLHORN *et al.*, 1988
RAND, WILES & ODENSE, 1986
SHAW, 1980; SHAW, 1981
LYONS, 1968; LYONS, 1970a
LYONS, 1973a

<i>Euzetrema knoeppfleri</i>	FOURNIER, 1976; FOURNIER, 1980a
<i>Euzetrema knoeppfleri</i> , Onco.	FOURNIER, 1976; FOURNIER, 1980a
<i>Gyrodactylus aculeati</i>	MEHLHORN <i>et al.</i> , 1988
<i>Gyrodactylus colemaniensis</i>	CONES & WILES, 1989
<i>Gyrodactylus eucaliae</i>	KRITSKY, 1971; KRITSKY & KRUIDENIER, 1976
<i>Gyrodactylus</i> sp.	LYONS, 1968; LYONS, 1970b
<i>Leptocotyle minor</i>	LYONS, 1968

Polyopisthocotylea

<i>Atriaseter (Atriaseter) sp.</i>	JUSTINE, 1992
<i>Diclidophora merlangi</i>	MORRIS & HALTON, 1971
<i>Diclybothrium armatum</i>	SLUSAREV, 1983
<i>Diplorchis hangzhouensis</i>	ZHANG & LANG, 1990
<i>Eupolystoma alluandi</i>	FOURNIER, 1979; FOURNIER, 1980a
<i>Gastrocotyle trachuri</i>	LYONS, 1968
<i>Gotocotyla secunda</i>	ROHDE, 1980
<i>Microcotyle</i> sp.	JUSTINE & BONAMI, 1993
<i>Plectanocotyle gurnardi</i>	LYONS, 1972
<i>Polystoma integerrimum</i>	BRESCIANI, 1973
	BRESCIANI <i>in</i> LUMSDEN, 1975
	FOURNIER, 1979; FOURNIER, 1980a
<i>Polystoma integerrimum</i> , Onco.	DUPOUY, 1975; FOURNIER, 1979
<i>Polystoma pelobatis</i>	FOURNIER, 1979; FOURNIER, 1980a
<i>Polystoma pelobatis</i> , Onco.	FOURNIER, 1979
<i>Polystomoides asiaticus</i>	ROHDE, 1975
<i>Polystomoides malayi</i>	ROHDE, 1973c
<i>Polystomoides renschi</i>	ROHDE, 1973c
<i>Pricea multae</i>	RAMASAMY, HANNA & THREADGOLD, 1986
<i>Pseudodiplorchis americanus</i>	CABLE & TINSLEY, 1992c
<i>Pseudodiplorchis americanus</i> , Larva	CABLE & TINSLEY, 1992b
<i>Rajonchotyle emarginata</i>	LYONS, 1968; LYONS, 1972
<i>Vallisia indica</i>	RAMASAMY, HANNA & THREADGOLD, 1987

Tegumentary receptors

Monopisthocotylea

<i>Acanthocotyle elegans</i>	LYONS, 1969b
<i>Acanthocotyle lobianchi</i>	REES & KEARN, 1984
<i>Amphibdella flavolineata</i>	LYONS, 1969a
<i>Cichlidogyrus halli</i>	EL-NAGGAR, KHIDR & KEARN, 1991
<i>Entobdella soleae</i>	LYONS, 1969a; LYONS, 1973b
<i>Entobdella soleae</i> , Onco.	LYONS, 1969a; LYONS, 1969b
<i>Euzetrema knoeppfleri</i>	FOURNIER, 1980a
<i>Gyrodactylus eucaliae</i>	KRITSKY, 1971; KRITSKY & KRUIDENIER, 1976
<i>Gyrodactylus</i> sp.	LYONS, 1969a; LYONS, 1969b
<i>Leptocotyle minor</i>	LYONS, 1969a
<i>Onchocleidus cyanellus</i>	DUOBINIS-GRAY, TOOLE & CORKUM, 1985

Polyopisthocotylea

<i>Diclidophora merlangi</i>	HALTON & MORRIS, 1969
<i>Eupolystoma alluandi</i>	FOURNIER, 1980a
<i>Gotocotyla secunda</i>	ROHDE, 1980
<i>Microcotyle sebastis</i>	CRANE & NOLEN, 1979
<i>Polystoma integerrimum</i>	FOURNIER, 1980a; FOURNIER, 1980b
<i>Polystomoides renschi</i>	ROHDE, 1972
<i>Polystomoides malayi</i>	ROHDE, 1972
<i>Polystomoides</i> sp.	ROHDE, 1975

<i>Pricea multae</i>	ROHDE <i>in</i> FRIED & HASEEB, 1991
<i>Vallisia indica</i>	RAMASAMY, HANNA & THREADGOLD, 1986 RAMASAMY, HANNA & THREADGOLD, 1987

Photoreceptors (in oncomiracidia or larvae)

Monopisthocotylea

<i>Entobdella soleae</i>	KEARN & BAKER, 1973
<i>Euzetrema knoeppffleri</i>	FOURNIER, 1975; FOURNIER, 1980a FOURNIER, 1980b

Polyopisthocotylea

<i>Diplorchis</i> sp.	ZHANG, 1987
<i>Diplozoon paradoxum</i>	KEARN, 1978
<i>Eupolystoma alluandi</i>	FOURNIER, 1980a
<i>Neodiplorchis scaphiopodis</i>	CABLE & TINSLEY, 1991a
<i>Polystoma intergerrimum</i>	FOURNIER & COMBES, 1978 FOURNIER, 1978b FOURNIER, 1980a; FOURNIER, 1980b
<i>Pseudodiplorchis americanus</i>	CABLE & TINSLEY, 1991a
<i>Sphyranura</i> sp.	KEARN, 1984

Glands

Monopisthocotylea

<i>Acanthocotyle lobianchi</i>	REES & KEARN, 1984
<i>Anoplodiscus australis</i>	ROUBAL & WHITTINGTON, 1990
<i>Cichlidogyrus halli</i>	EL-NAGGAR & KEARN, 1989
<i>Dactylogyrus amphibothrium</i>	EL-NAGGAR & KEARN, 1980
<i>Dactylogyrus hemiamphibothrium</i>	EL-NAGGAR & KEARN, 1980
<i>Entobdella soleae</i>	EL-NAGGAR & KEARN, 1983a
<i>Gyrodactylus eucaliae</i>	KRITSKY, 1971; KRITSKY, 1978
<i>Tetraonchus monenteron</i>	KEARN & GOWING, 1989

Polyopisthocotylea

<i>Paramicrocotyloides reticularis</i>	ROHDE, 1986
<i>Polystomoides asiaticus</i>	ROHDE, 1975
<i>Pricea multae</i>	RAMASAMY, HANNA & THREADGOLD, 1986
<i>Zeuxapta seriola</i>	ROHDE, 1986

Haptoral hard pieces (clamps, hooklets, squamodisc, sclerites)

Monopisthocotylea

<i>Cichlidogyrus halli</i>	EL-NAGGAR, 1992
<i>Diplectanum aequans</i>	OLIVER, 1976; SHAW, 1981a
<i>Discocotyle sagittata</i> , SEM	MO & APPLEBY, 1990
<i>Gyrodactylus salaris</i> , SEM	MO & APPLEBY, 1990
<i>Gyrodactylus</i> sp.	KAYTON, 1986
<i>Leptocotyle minor</i> , Onco.	KEARN & GOWING, 1990
<i>Tetraonchus monenteron</i>	KEARN & GOWING, 1989

Polyopisthocotylea

<i>Diclidophora luscae</i>	SHAW, 1979b
<i>Gastrocotyle trachuri</i>	SHAW, 1979a; SHAW, 1979b
<i>Kuhnia scombr</i>	SHAW, 1979b
<i>Microcotyle donavini</i>	SHAW, 1979b

<i>Microcotyle spinicirrus</i>	MERGO & CRITES, 1982b MERGO & CRITES, 1984
<i>Plectanocotyle gurnardi</i>	SHAW, 1979b
<i>Pseudaxine trachuri</i>	SHAW, 1979b

2. Non-reproductive internal organs

Digestive apparatus (including coecum, pharynx, oesophagus)

Monopisthocotylea

<i>Calicotyle kroyeri</i>	HALTON & STRANOCK, 1976a HALTON & STRANOCK, 1976b
<i>Euzetrema knoepffleri</i>	FOURNIER, 1978; FOURNIER, 1980a
<i>Gyrodactylus eucaliae</i>	KRITSKY, 1971
<i>Tetraonchus monenteron</i>	JUNCHIS, 1988

Polyopisthocotylea

<i>Diclidophora merlangi</i>	HALTON, DERMOTT & MORRIS, 1968 HALTON, MORRIS & HARDCASTLE, 1974 HALTON, 1975; HALTON, 1982 HALTON & MORRIS, 1975 HALTON, MORRIS & DERMOTT, 1968
<i>Eupolystoma alluandi</i>	FOURNIER, 1980a
<i>Gotocotyla secunda</i>	ROHDE, 1979; ROHDE, 1980
<i>Heteromicrocotyloides mirabilis</i>	ROHDE, 1979
<i>Hexostoma euthynni</i>	ROHDE, 1980
<i>Paramicrocotyloides reticularis</i>	ROHDE, 1981; ROHDE, 1986
<i>Polystoma integerrimum</i>	FOURNIER, 1980a
<i>Polystomoides asiaticus</i>	ROHDE, 1975; ALLEN & TINSLEY, 1989
<i>Polystomoides chabaudi</i>	ALLEN & TINSLEY, 1989
<i>Polystomoides malayi</i>	ROHDE, 1973b; ALLEN & TINSLEY, 1989
<i>Polystomoides renschi</i>	ROHDE, 1973b
<i>Polystomoides sp.</i>	ALLEN & TINSLEY, 1989
<i>Protopolystoma xenopi</i>	TINSLEY, 1973; TINSLEY, 1974
<i>Zeuxapta seriola</i>	ROHDE, 1981; ROHDE, 1986

Protonephridia

Monopisthocotylea

Ancyrocephalinae Gen. sp.	ROHDE, WATSON & ROUBAL, 1989
<i>Anoplodiscus cirruspiralis</i>	ROHDE, WATSON & ROUBAL, 1992
<i>Calceostoma herculanea</i>	ROHDE, JUSTINE & WATSON, 1989
<i>Dactylogyrus sp.</i>	ROHDE, WATSON & ROUBAL, 1989
<i>Euzetrema knoepffleri</i>	FOURNIER, 1980a
<i>Gyrodactylus eucaliae</i>	KRITSKY, 1971
<i>Gyrodactylus sp.</i>	ROHDE, 1989
<i>Loimosina wilsoni</i>	ROHDE, JUSTINE & WATSON, 1989

Polyopisthocotylea

<i>Eupolystoma alluandi</i>	FOURNIER, 1980a
<i>Gotocotyla secunda</i>	ROHDE, 1980
<i>Hexostoma euthynni</i>	ROHDE, 1980
<i>Polystoma integerrimum</i>	FOURNIER, 1980a
<i>Polystomoides asiaticus</i>	ROHDE, 1975; ROHDE, 1982a
<i>Polystomoides malayi</i>	ROHDE, 1973a
<i>Polystomoides renschi</i>	ROHDE, 1973a

Nerve Cells

Monopisthocotylea

Polyopisthocotylea

<i>Gastrocotyle trachuri</i>	SHAW, 1981; SHAW, 1982
<i>Microcotyle sebastis</i>	TIEKOTTER, 1988
<i>Polystoma integerrimum</i>	SKOWERSKA & CZECHOWICZ, 1985
<i>Polystomoides asiaticus</i>	ROHDE, 1975
<i>Polystomoides malayi</i>	ROHDE, 1972
<i>Polystomoides renschi</i>	ROHDE, 1972

3. Reproductive organs

Female Genital ducts (including Mehlis' gland)

Monopisthocotylea

<i>Calicotyle kroyeri</i>	STRANOCK & HARDCASTLE, 1975
<i>Cichlidogyrus halli</i>	EL-NAGGAR, KHIDR & KEARN, 1990

Polyopisthocotylea

<i>Diclidophora merlangi</i>	HALTON <i>et al.</i> 1991
<i>Diplozoon paradoxum</i>	STRANOCK & HARDCASTLE, 1975
<i>Neodiplorchis scaphiopodis</i>	CABLE & TINSLEY, 1991b
<i>Pseudodiplorchis americanus</i>	CABLE & TINSLEY, 1991b

Oogenesis, Eggs

Monopisthocotylea

<i>Calicotyle kroyeri</i>	HALTON, STRANOCK & HARDCASTLE, 1976
<i>Dionchus remorae</i>	JUSTINE & MATTEI, 1986a
<i>Euzetrema knoepffleri</i>	FOURNIER, 1980a
<i>Gyrodactylus eucaliae</i>	KRITSKY, 1971
<i>Gyrodactylus</i> sp.	JONES & WHITTINGTON, 1992

Polyopisthocotylea

<i>Diclidophora merlangi</i>	HALTON, STRANOCK & HARDCASTLE, 1976
<i>Diplozoon paradoxum</i>	HALTON, STRANOCK & HARDCASTLE, 1976
<i>Neodiplorchis scaphiopodis</i>	CABLE & TINSLEY, 1991b
<i>Pseudodiplorchis americanus</i>	CABLE & TINSLEY, 1991b

Eggs, SEM

Monopisthocotylea

<i>Dionchus remorae</i>	WHITTINGTON, 1990
<i>Entobdella soleae</i>	KEARN, 1986

Polyopisthocotylea

<i>Concinnocotyla australensis</i>	WHITTINGTON & PICHELIN, 1991
<i>Plectanocotyle gurnardi</i>	WHITTINGTON & KEARN, 1989
<i>Heteraxinoides xanthophilis</i>	THONEY <i>in</i> FRIED & HASEEB, 1991

Vitellogenesis

Monopisthocotylea

<i>Calicotyle kroyeri</i>	HALTON, STRANOCK & HARDCASTLE, 1974
<i>Euzetrema knoepffleri</i>	FOURNIER, 1980a

Polyopisthocotylea

<i>Diclidophora denticulata</i>	HALTON, STRANOCK & HARDCASTLE, 1974
<i>Diclidophora merlangi</i>	HALTON, STRANOCK & HARDCASTLE, 1974
<i>Diplozoon paradoxum</i>	HALTON, STRANOCK & HARDCASTLE, 1974
<i>Eupolystoma alluandi</i>	FOURNIER, 1980a
<i>Neodiplorchis scaphiopodis</i>	CABLE & TINSLEY, 1991b
<i>Polystoma integerrimum</i>	FOURNIER, 1980a
<i>Polystoma pelobati</i>	FOURNIER, 1980a
<i>Pseudodiplorchis americanus</i>	CABLE & TINSLEY, 1991b

Male Genital ducts (including male sclerites and prostate gland)

Monopisthocotylea

<i>Diplectanum aequans</i>	MAILLARD, GONZALEZ & NOISY, 1982
<i>Entobdella soleae</i>	TAPPENDEN & KEARN, 1991

Polyopisthocotylea

<i>Diclidophora merlangi</i>	HALTON & HARDCASTLE, 1977
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Spermiogenesis and spermatozoa

Monopisthocotylea

<i>Acanthocotyle lobianchi</i>	MALMBERG & AFZELIUS, 1990 TAPPENDEN & KEARN, 1990 JUSTINE <i>et al.</i> , 1993
<i>Amphibdella paronaperugiaie</i>	JUSTINE & MATTEI, 1988 ; JUSTINE, 1991b
<i>Amphibdelloides vallei</i>	JUSTINE & MATTEI, 1983c
<i>Amphibdelloides spp.</i>	JUSTINE & MATTEI, 1983c
<i>Anoplodiscus cirruspiralis</i>	WATSON & ROHDE, 1992
<i>Caballerocotyla sp.</i>	JUSTINE, 1985; JUSTINE & MATTEI, 1987
<i>Calceostoma herculanea</i>	JUSTINE & MATTEI, 1986b
<i>Calicotyle kroyeri</i>	TAPPENDEN & KEARN, 1991a
<i>Cichlidogyrus halli</i>	EL-NAGGAR, KHIDR & KEARN, 1990
<i>Cleithrarticus beninensis</i>	JUSTINE & MATTEI, 1982b; JUSTINE, 1991b
<i>Cleithrarticus sp.</i>	JUSTINE & MATTEI, 1982b; JUSTINE, 1991b
<i>Dionchus remorae</i>	JUSTINE, LAMBERT & MATTEI, 1985 JUSTINE & MATTEI, 1986a JUSTINE & MATTEI 1987
<i>Diplectanum sp.</i>	JUSTINE & MATTEI, 1984b JUSTINE & MATTEI, 1982b
<i>Diplectanum banyulensis</i>	JUSTINE, 1985 ; JUSTINE, 1991b
<i>Diplectanum aequans</i>	OLIVER <i>in</i> JUSTINE, 1991b
<i>Encotyllabe sp.</i>	JUSTINE, 1991 JUSTINE, MATTEI & EUZET, 1991
<i>Entobdella hippoglossi</i>	TAPPENDEN & KEARN, 1991b
<i>Entobdella soleae</i>	TAPPENDEN & KEARN, 1991b
<i>Euzetrema knoeppfle</i>	FOURNIER, 1980a
<i>Furnestinia echeneis</i>	JUSTINE, LAMBERT & MATTEI, 1985 JUSTINE, 1985 JUSTINE, 1991b
<i>Gyrodactylus eucaliae</i>	KRITSKY, 1976
<i>Heterocotyle sp.</i>	JUSTINE & MATTEI, 1983b
<i>Isancistrum sp.</i>	MALMBERG & LILLIEMARK <i>in</i> JUSTINE <i>et al.</i> , 1993
<i>Lamellodiscus elegans</i>	JUSTINE, LAMBERT & MATTEI, 1985 JUSTINE, 1985 JUSTINE, 1991b

- Lamellodiscus ergensi* JUSTINE, LAMBERT & MATTEI, 1985
JUSTINE, 1985
JUSTINE, 1991b
- Lamellodiscus ignoratus* JUSTINE, LAMBERT & MATTEI, 1985
JUSTINE, 1985
JUSTINE, 1991b
- Loimosina wilsoni* JUSTINE & MATTEI, 1985d
- Macrogyroductylus polypteri* SCHMAHL & ELWASILA, 1992
- Megalocotyle grandiloba* JUSTINE & MATTEI, 1983a; JUSTINE, 1983
- Megalocotyle hexacantha* JUSTINE, LAMBERT & MATTEI, 1985
JUSTINE & MATTEI, 1987 ; JUSTINE, 1991b
- Myxinidocotyle californica* MALMBERG & AFZELIUS, 1990
JUSTINE *et al.*, 1993
- Pseudodactylogyus anguillae* LE BRUN, LAMBERT & JUSTINE, 1986
JUSTINE, 1991b; MEHLHORN, 1988
- Pseudodactylogyus bini* SCHMAHL & ELWASILA, 1992
- Tetraonchoides* sp. JUSTINE, MATTEI & EUZET, 1991
- Tetraonchus monenteron* JUSTINE, 1985 ; JUSTINE, 1991b
- Trochopus pini* KTARI, 1971; TUZET & KTARI, 1971b
- Polyopisthocotylea**
- Atrias ter (Atrias ter)* sp. JUSTINE, 1992
- Atrias ter (Atrispinum) sargui* JUSTINE, 1985; JUSTINE, 1991b
- Axine* sp. JUSTINE & MATTEI, 1985b; JUSTINE, 1991b
- Cemocotyle* sp. JUSTINE & MATTEI, 1985c; JUSTINE, 1991b
- Choricotyle pagelli* KTARI, 1971; TUZET & KTARI, 1971b
- Diclidophora merlangi* MACDONALD & CALEY, 1975
HALTON & HARDCASTLE, 1976, 1977
- Diclidophora* sp. KTARI, 1971; TUZET & KTARI, 1971b
- Diplozoon gracile* JUSTINE, LE BRUN & MATTEI, 1985a, b
- Ercocotyle catenulata* KTARI, 1971; TUZET & KTARI, 1971b
- Gastrocotyle* sp. SCHMAHL & OBIEKEZIE, 1991
- Gotocotyla acanthura* JUSTINE & MATTEI, 1985a; JUSTINE, 1991b
- Gotocotyla secunda* ROHDE, 1980
- Heteraxine* sp. JUSTINE & MATTEI, 1985c; JUSTINE, 1991b
- Heteraxinoides* sp. JUSTINE & MATTEI, 1985c; JUSTINE, 1991b
- Hexostoma* sp. JUSTINE & MATTEI, 1984a
- Kuhnia* sp. JUSTINE & MATTEI, 1985b
- Microcotyle chrysophrii* JUSTINE & MATTEI, 1985b; JUSTINE, 1985
JUSTINE, 1991b
- Microcotyle erythrini* KTARI, 1971; TUZET & KTARI, 1971b
- Microcotyle mormyri* KTARI, 1971; TUZET & KTARI, 1971a
TUZET & KTARI, 1971b
- Microcotyle sebastis* YOUSIF & CRANE, 1979
- Microcotyle* sp. JUSTINE & MATTEI, 1985b; JUSTINE, 1985
JUSTINE, 1991b
- Plectanocotyle gurnardi* KTARI, 1971; TUZET & KTARI, 1971b
- Polystoma integerrimum* BEKKOUCHE, FOURNIER & PEYRIÈRE, 1974
- Polystomoides malayi* ROHDE, 1971; ROHDE, 1975
- Polystomoides asiaticus* ROHDE, 1971; ROHDE, 1975
- Polystomoides bourgati* JUSTINE, 1985
- Protomicrocotyle ivoriensis* SCHMAHL & OBIEKEZIE, 1991
- Pseudomazocraes* sp. JUSTINE & MATTEI, 1985b
- Pterinotrema* sp. JUSTINE, 1985; JUSTINE, 1991b
- Pyragraphorus pyragraphorus* JUSTINE & MATTEI, 1985b ; JUSTINE, 1991b
- Sphyranura* sp. OLIVER & EUZET *in* JUSTINE, 1991b

4. Parasites and symbionts

Microsporidia

Pseudodiplorchis americanus CABLE & TINSLEY, 1992a

Bacteria, Mycoplasma and other Procaryotes

Monopisthocotylea

Cichlidogyrus halli EL-NAGGAR & KEARN, 1989
Euzetrema knoeppfleri FOURNIER, COMBES & VAGO, 1975
FOURNIER, VAGO & COMBES, 1976

Polyopisthocotylea

Diclidophora merlangi MORRIS & HALTON, 1975
Polystoma integerrimum BEKKOUCHE & DUPOUY, 1976
Pseudodiplorchis americanus CABLE & TINSLEY, 1992a
Zeuxapta seriola ROHDE, 1986

Viruses

Monopisthocotylea

Diplectanum aequans MOKHTAR-MAAMOURI *et al.* 1976
Euzetrema knoeppfleria FOURNIER, 1980a

Polyopisthocotylea

Microcotyle sp. JUSTINE & BONAMI, 1993

BIBLIOGRAPHY

- AGRAWAL N., SHARMA R., 1990. The surface topography of *Bifurcohaptor lucknowensis* sp. n. (Monogenea). *Helminthologia*, 27, 33-37.
- ALLEN K.M., TINSLEY R.C., 1989. The diet and gastrodermal ultrastructure of polystomatid monogeneans infecting chelonians. *Parasitology*, 98, 265-273.
- ALYOUSIF M.S., 1986. Surface topography of *Microcotyle sebastis* (Trematoda Monogenea) by scanning electron microscopy. *Annals of Zoology (Agra)*, 24, 1-18.
- BEKKOUCHE Z., DUPOUY J., 1976. Observation of intracellular bacteria in somatic cells and in ovocytes of *Polystoma integerrimum* (Monogenea) parasite of *Rana temporaria*. *Zeitschrift für Parasitenkunde*, 48, 298-299.
- BEKKOUCHE Z., FOURNIER A., PEYRIERE M., 1974. Différences ultrastructurales entre Monogènes Monopisthocotylea et Polyopisthocotylea, parasites d'Amphibiens. In Proceedings of 3rd International Congress on Parasitology, Munich, Aug. 25-31 1974, Section B4, 416-417, Facta, Vienna.
- BRESCIANI J., 1973. The ultrastructure of the integument of the monogenean *Polystoma integerrimum* (Frölich, 1791). *Årsskrift K. Vet. Landb.*, 1973, 14-27. (Original not seen).
- BUCHMANN K., 1988a. Feeding of *Pseudodactylogyrus bini* (Monogenea) from *Anguilla anguilla*. *Bulletin of the European Association of Fish Pathology*, 8, 79-81.
- BUCHMANN K., 1988b. Interactions between the gill-parasitic monogeneans *Pseudodactylogyrus anguillae* and *P. bini* and the fish host *Anguilla anguilla*. *Bulletin of the European Association of Fish Pathology*, 8, 98-100.
- BUCHMANN K., KØIE M., PRENTØ P., 1987. The nutrition of the gill parasitic monogenean *Pseudodactylogyrus anguillae*. *Parasitology Research*, 73, 532-537.

- CABLE J., TINSLEY R.C., 1991a. The ultrastructure of photoreceptors in *Pseudodiploorchis americanus* and *Neodiploorchis scaphiopodis* (Monogenea: Polystomatidae). *International Journal for Parasitology*, 21, 81-90.
- CABLE J., TINSLEY R.C., 1991b. Intra-uterine larval development of the polystomatid monogeneans, *Pseudodiploorchis americanus* and *Neodiploorchis scaphiopodis*. *Parasitology*, 103, 253-266
- CABLE J., TINSLEY R.C., 1992a. Microsporidian hyperparasites and bacteria associated with *Pseudodiploorchis americanus* (Monogenea: Polystomatidae). *Canadian Journal of Zoology*, 70, 523-529.
- CABLE J., TINSLEY R.C., 1992b. Tegumental ultrastructure of *Pseudodiploorchis americanus* larvae (Monogenea Polystomatidae). *International Journal for Parasitology*, 22, 819-829.
- CABLE J., TINSLEY R.C., 1992c. Unique ultrastructural adaptations of *Pseudodiploorchis americanus* (Polystomatidae: Monogenea) to a sequence of hostile conditions following host infection. *Parasitology*, 105, 229-241.
- CONE D.K., 1979. Development of the haptor of *Urocleidus adspetus* Mueller, 1936 (Monogenea: Ancyrocephalinae). *Canadian Journal of Zoology*, 57, 1896-1904.
- CONE D.K., BEVERLEY-BURTON M., 1981. The surface topography of *Benedenia* sp. (Monogenea: Capsalidae). *Canadian Journal of Zoology*, 59, 1941-1946.
- CONE D.K., BURT M.D.B., 1981. The invasion route of the gill parasite *Urocleidus adspetus* Mueller, 1936 (Monogenea: Ancyrocephalinae). *Canadian Journal of Zoology*, 59, 2166-2171.
- CONE D.K., CUSACK R., 1988. A study of *Gyrodactylus colemanensis* Mizelle and Kritsky, 1967 and *Gyrodactylus salmonis* (Yin and Sproston, 1948) (Monogenea) parasitizing captive salmonids in Nova Scotia. *Canadian Journal of Zoology*, 66, 409-415.
- CONE D.K., GRATZEK J.B., HOFFMAN G.L., 1987. A study of *Enterogyrus* sp. (Monogenea) parasitizing the foregut of captive *Pomacanthus paru* (Pomacanthidae) in Georgia. *Canadian Journal of Zoology*, 65, 312-316.
- CONE D.K., ODENSE P.H., 1984. Pathology of five species of *Gyrodactylus* Nordmann, 1832 (Monogenea). *Canadian Journal of Zoology*, 62, 1084-1088
- CONE D.K., ODENSE P.H., 1988. Light and scanning electron microscope studies of *Fundulotrema prolongis* (Monogenea: Gyrodactylidae) parasitizing *Fundulus diaphanus* (Cyprinodontidae) in Nova Scotia, Canada, with an emended diagnosis of *Fundulotrema*. *Proceedings of the Helminthological Society of Washington*, 55, 224-228.
- CONE D.K., WILES M., 1989. Ultrastructural study of attachment of *Gyrodactylus colemanensis* (Monogenea) to fins of fry of *Salmo gairdneri*. *Proceedings of the Helminthological Society of Washington*, 56, 29-32.
- CRANE J.W., NOLEN K., 1979. Ultrastructure of epidermal sensory receptors of *Microcotyle sebastis* (Goto) 1894 in BYLUND G., Proceedings of IX Symposium of the Scandinavian Society for Parasitology, Åbo, Finland, 11-13 June, 1979. Abstracts. *Information, Institute of Parasitology, Åbo Akademi*, 15, 5.
- DUOBINIS-GRAY L.F., TOOLE J.E., CORKUM K.C., 1985. Distribution and fine structure of tegumental receptors in *Onchocleidus cyanellus* (Monogenea: Ancyrocephalinae). *Proceedings of the Helminthological Society of Washington*, 52, 175-179.
- DU PREEZ L.H., KOK D.J., 1987. *Polystoma australis* (Monogenea): loss of locomotory cilia associated with retarded hatching of oncomiracidia. *Parasitology Research*, 74, 50-54
- DUPOUY J., 1975. Ultrastructure du tégument de la larve à croissance lente de *Polystoma integerrimum* (Fröhlich 1798). Signification évolutive. *Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences Série D Sciences Naturelles*, 281, 1847-1850.

- EHLERS U., 1985. Das Phylogenetische System der Plathelminthes. G. Fischer, Stuttgart.
- EL-NAGGAR M. M., 1992. Ultrastructural observations on the marginal hooklets of the monogenean gill parasite *Cichlidogyrus halli typicus*. *International Journal for Parasitology*, 22, 613-619.
- EL-NAGGAR M.M, KEARN G.C., 1980. Ultrastructural observations on the anterior adhesive apparatus in the monogeneans *Dactylogyrus amphibothrium* Wagener, 1857 and *D. hemiamphibothrium* Ergens, 1956. *Zeitschrift für Parasitenkunde*, 61, 223-241.
- EL-NAGGAR M.M., KEARN G.C., 1983a. Glands associated with the anterior adhesive areas and body margins in the skin-parasitic monogenean *Entobdella soleae*. *International Journal for Parasitology*, 13, 67-81.
- EL-NAGGAR M.M, KEARN G.C., 1983b. The tegument of the monogenean gill parasites *Dactylogyrus amphibothrium* and *D. hemiamphibothrium*. *International Journal for Parasitology*, 13, 579-592.
- EL-NAGGAR M.M., KEARN G.C., 1989. Haptor glands in the gill-parasitic, ancyrocephaline monogenean *Ciclidogyrus halli typicus* and the report of a possible prokaryotic symbiont. *International Journal for Parasitology*, 19, 401-408.
- EL-NAGGAR M.M., KHIDR A.A., KEARN G.C., 1990. Ultrastructural observations on the oviduct, Mehlis' glands and ootype of the monogenean *Cichlidogyrus halli typicus* (Price & Kirk, 1967) Paperna, 1979. *International Journal for Parasitology*, 20, 203-209
- EL-NAGGAR M.M., KHIDR A.A., KEARN G.C., 1991. Ultrastructural observations on the tegument and associated structures of the monogenean *Ciclidogyrus halli typicus* (Price & Kirk, 1967) Paperna, 1979. *International Journal for Parasitology*, 21, 707-713.
- FOURNIER A., 1975. Les taches pigmentaires de l'oncomiracidium d'*Euzetrema knoepffleri* (Monogenea): ultrastructure et évolution au cours du cycle biologique. *Zeitschrift für Parasitenkunde*, 46, 203-209.
- FOURNIER A., 1976. Le tégument d'*Euzetrema knoepffleri*, Monogène parasite d'Amphibien: ultrastructure et évolution au cours du cycle biologique. *Annales de Parasitologie Humaine et Comparée*, 51, 15-26.
- FOURNIER A., 1978a. *Euzetrema knoepffleri*: evidence for a synchronous cycle of the gastrodermal activity and an 'apocrine-like' release of the residues of digestion. *Parasitology*, 77, 19-26.
- FOURNIER A., 1978b. Originalité de l'appareil photorécepteur d'un monogène Polystomatidae. In Proceedings of the Fourth International Congress of Parasitology, 19-26 August, 1978, Warsawa, Poland, Sect. A, 5.
- FOURNIER A., 1979. Evolution du tégument des *Polystoma* (Monogènes Polystomatidae) au cours du cycle. Persistance de l'épiderme embryonnaire nucléé chez les oncomiracidiums. *Zeitschrift für Parasitenkunde*, 59, 169-185
- FOURNIER A., 1980a. Les Monogènes d'Amphibiens. Approche ultrastructurale des modifications adaptatives au cours du cycle et des relations phylétiques. Thèse d'État, Université de Perpignan, France.
- FOURNIER A., 1980b. Sensor and effectors: ultrastructure of some sense organs. *Parasitology*, 82 (Part 4), 61-63.
- FOURNIER A., COMBES C., 1978. Structure of photoreceptors of *Polystoma integerrimum* (Platyhelminths, Monogenea). *Zoomorphologie*, 91, 147-155.
- FOURNIER A., COMBES C., VAGO C., 1975. Mise en évidence de bactéries endocellulaires pathogènes chez le Monogène *Euzetrema knoepffleri*. *Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences Série D Sciences Naturelles*, 281, 1895-1897.

- FOURNIER A., VAGO C, COMBES C., 1976. An intracellular pathogenic prokaryote in *Euzetrema knoeffleri* (Monogenea) parasite of *Euproctus montanus*. *Zeitschrift für Parasitenkunde*, 48, 298.
- FRIED B., HASEEB M.A., 1991. Platyhelminthes: Aspidogastrea, Monogenea, Digenea. In HARRISSON F.W. & BOGITSH B.J., Microscopic anatomy of Invertebrates, Vol. 3. Platyhelminthes and Nemertinea. Wiley-Liss, New York.
- GALKIN A.K., 1988. Ultrastructure of monogeneans and its importance in the systematics of Cercomeromorpha. In SKARLATO, O.A., Investigation of monogeneans in the USSR, 25-30 (Papers presented at the All-Union Symposium on Monogeneans, Leningrad, USSR, 16-18 November, 1976). Russian translation series n° 62, Balkema, Rotterdam.
- GERASEV P.I., YUNCHIS L.A., 1986. Some aspects of the structure of the digestive system of monogeneans. *Trudy Zoologicheskogo Instituta (Leningrad)*, 155, 70-93. (In Russian).
- HALTON D.W., 1975. Intracellular digestion and cellular defecation in a monogenean, *Diclidophora merlangi*. *Parasitology*, 70, 331-340.
- HALTON D.W., 1979. The surface topography of a monogenean, *Diclidophora merlangi* revealed by scanning electron microscopy. *Zeitschrift für Parasitenkunde*, 61, 1-12.
- HALTON D.W., 1982a. X-ray microanalysis of pigment granules in the gut of *Diclidophora merlangi* (Monogenea). *Zeitschrift für Parasitenkunde*, 68, 113-116
- HALTON D.W., 1982b. Morphology and ultrastructure of parasitic helminths. In METTRICK D.F., DESSER S.S, Parasites their world and ours. Proceedings of the 5th International Congress of Parasitology, Toronto, Canada, 7-14 August, 1982, under the auspices of the World Federation of Parasitologists. Elsevier Biomedical Press, Amsterdam, 60-69.
- HALTON D.W., BRENNAN G.P., MAULE A.G., SHAW C., JOHNSTON C.F., FAIRWEATHER I., 1991. The ultrastructure and immunogold labelling of pancreatic polypeptide- immunoreactive cells associated with the egg- forming apparatus of a monogenean parasite, *Diclidophora merlangi*. *Parasitology*, 102, 429-436.
- HALTON D.W., DERMOTT E., MORRIS G.P., 1968. Electron microscope studies of *Diclidophora merlangi* (Monogenea: Polyopisthocotylea). I. Ultrastructure of the cecal epithelium. *Journal of Parasitology*, 54, 909-916.
- HALTON D.W., HARDCASTLE A., 1976. Spermatogenesis in a monogenean, *Diclidophora merlangi*. *International Journal for Parasitology*, 6, 43-53.
- HALTON D.W., HARDCASTLE A., 1977. Ultrastructure of the male accessory ducts and prostate gland of *Diclidophora merlangi* (Monogenoidea). *International Journal for Parasitology*, 7, 393-401.
- HALTON D.W., MORRIS G.P., 1969. Occurrence of cholinesterase and ciliated sensory structures in a fish gill-fluke, *Diclidophora merlangi* (Trematoda: Monogenea). *Zeitschrift für Parasitenkunde*, 33, 21-30.
- HALTON D.W., MORRIS G.P., 1975. Ultrastructure of the anterior alimentary tract of a monogenean, *Diclidophora merlangi*. *International Journal for Parasitology*, 5, 407-419.
- HALTON D.W., MORRIS G.P., DERMOTT E., 1968. Aspects of nutrition in the monogenetic trematode *Diclidophora merlangi*. *Parasitology*, 58, 4p.
- HALTON D.W., MORRIS G.P, HARDCASTLE A., 1974. Gland cells associated with the alimentary tract of a monogenean, *Diclidophora merlangi*. *International Journal for Parasitology*, 4, 589-599.
- HALTON D.W., STRANOCK S.D., 1976a. The fine structure and histochemistry of the caecal epithelium of *Calicotyle kröyeri* (Monogenea: Monopisthocotylea). *International Journal for Parasitology*, 6, 253-263.

- HALTON D.W., STRANOCK S.D., 1976b. Ultrastructure of the foregut and associated glands of *Calicotyle kröyeri* (Monogenea: Monopisthocotylea). *International Journal for Parasitology*, 6, 517-526.
- HALTON D.W., STRANOCK S.D., HARDCASTLE A., 1974. Vitelline cell development in monogenean parasites. *Zeitschrift für Parasitenkunde*, 45, 45-61.
- HALTON D.W., STRANOCK S.D., HARDCASTLE A., 1976. Fine structural observations on oocyte development in monogeneans. *Parasitology*, 73, 13-23.
- HARRIS P.D., 1983. The morphology and life cycle of the oviparous *Oögyrodactylus farlowellae* gen. et sp. nov. (Monogenea, Gyrodactylidea). *Parasitology*, 87, 405-420.
- HARRIS P.D., TINSLEY R.C., 1987. The biology of *Gyrdicotylus gallieni* (Gyrodactylidea), an unusual viviparous monogenean from the African clawed toad, *Xenopus laevis*. *Journal of Zoology (London)*, 212, 325-346.
- HOLMGREN P.R., ROGERS T.D., SCHOLLES V.E., 1968. Fine structure of the monogenetic trematode integument. *Journal of Cell Biology*, 39, 153a.
- JONES M.K., WHITTINGTON I.D., 1992. Nuclear bodies in the egg cells of a *Gyrodactylus* species (Platyhelminthes, Monogenea). *Parasitology Research*, 78, 534-536.
- JUNCHIS L.A., 1988. [Fine structure of the gastrodermis of *Tetraonchus monenteron* (Monogenea, Tetraonchidae)]. *Trudy Zoologicheskogo Instituta (Leningrad)*, 177, 117-124. (in russian)
- JUSTINE J.-L., 1983. A new look at Monogenea and Digenea spermatozoa. In: *The Sperm Cell* (Edited by André J.), pp. 454-457. Martinus Nijhoff, The Hague.
- JUSTINE J.-L., 1985. Étude ultrastructurale comparée de la spermiogenèse des Digènes et des Monogènes (Plathelminthes). Relations entre la morphologie du spermatozoïde, la biologie de la fécondation et la phylogénie. Thèse d'État, Université des Sciences et Techniques du Languedoc, Montpellier II, France.
- JUSTINE J.-L., 1991a. Phylogeny of parasitic Platyhelminthes: a critical study of synapomorphies proposed from the ultrastructure of spermiogenesis and spermatozoa. *Canadian Journal of Zoology*, 69, 1421-1440.
- JUSTINE J.-L., 1991b. Cladistic study in the Monogenea (Platyhelminthes), based upon a parsimony analysis of spermiogenetic and spermatozoal ultrastructural characters. *International Journal for Parasitology*, 21, 821-838.
- JUSTINE J.-L. 1991c. Spermatozoa as a tool for taxonomy of species and supraspecific taxa in the Platyhelminthes. In BACCETTI B., *Comparative Spermatology 20 Years After*, Raven Press, New York, 981-984.
- JUSTINE J.-L., 1992. Ultrastructure of spermiogenesis, spermatozoa and the tegument in *Atriatster* sp. (Platyhelminthes, Monogenea, Polyopisthocotylea, Microcotylidae). *Zoologica Scripta*, 21, 231-238.
- JUSTINE J.-L., AFZELIUS B.A., MALMBERG G., MATTEI X., 1993. Ultrastructure of spermiogenesis in *Acanthocotyle* and *Myxinidocotyle* (Platyhelminthes, Monogenea, Acanthocotylidae). *Acta Zoologica (Stockholm)*, 74, 119-126.
- JUSTINE J.-L., BONAMI J.- R., 1993. Virus-like particles in a monogenean (Platyhelminthes) parasitic in a marine fish. *International Journal for Parasitology*, 23, 69-75.
- JUSTINE J.-L., LAMBERT, A., MATTEI, X., 1985. Spermatozoon ultrastructure and phylogenetic relationships in the monogeneans (Platyhelminthes). *International Journal for Parasitology*, 15, 601-608.
- JUSTINE J.-L., LE BRUN N., AND MATTEI X., 1985a. First report of aflagellate spermatozoon in a parasitic platyhelminth, found in the monogenean *Diplozoon gracile* (Polyopisthocotylea, Diplozoidae). *Annales de Parasitologie Humaine et Comparée*, 60, 761-762.

- JUSTINE J.-L., LE BRUN N., AND MATTEI X., 1985b. The aflagellate spermatozoon of *Diplozoon* (Platyhelminthes: Monogenea: Polyopisthocotylea). A demonstrative case of relationship between sperm ultrastructure and biology of reproduction. *Journal of Ultrastructure Research*, 92, 47-54.
- JUSTINE J.-L., MATTEI X., 1982. Présence de spermatozoïdes à un seul axonème dans trois familles de Monogènes Monopisthocotylea: Ancyrocephalidae, Diplectanidae et Monocotylidae. *Annales de Parasitologie Humaine et Comparée*, 57, 419-420.
- JUSTINE J.-L., MATTEI X., 1983a. Étude ultrastructurale comparée de la spermiogenèse des Monogènes. 1. *Megalocotyle* (Monopisthocotylea Capsalidae). *Journal of Ultrastructure Research*, 82, 296-308.
- JUSTINE J.-L., MATTEI X., 1983b. Comparative ultrastructural study of spermiogenesis in monogeneans (flatworms). 2. *Heterocotyle* (Monopisthocotylea, Monocotylidae). *Journal of Ultrastructure Research*, 84, 213-223.
- JUSTINE J.-L., MATTEI X., 1983c. Comparative ultrastructural study of spermiogenesis in monogeneans (flatworms). 3. Two species of *Amphibdelloides* (Monopisthocotylea, Amphibdellatidae). *Journal of Ultrastructure Research*, 84, 224-237.
- JUSTINE J.-L., MATTEI X., 1984a. Ultrastructure du spermatozoïde du Monogène *Hexostoma* (Polyopisthocotylea, Hexostomatidae). *Annales de Parasitologie Humaine et Comparée*, 59, 227-229.
- JUSTINE J.-L., MATTEI X., 1984b. Comparative ultrastructural study of spermiogenesis in monogeneans (flatworms). 4. *Diplectanum* (Monopisthocotylea Diplectanidae). *Journal of Ultrastructure Research*, 88, 77-91.
- JUSTINE J.-L., MATTEI X., 1985a. A spermatozoon with undulating membrane in a parasitic flatworm, *Gotocotyla* (Monogenea, Polyopisthocotylea, Gotocotylidae). *Journal of Ultrastructure Research*, 90, 163-171.
- JUSTINE J.-L., MATTEI X., 1985b. Particularités ultrastructurales des spermatozoïdes de quelques Monogènes Polyopisthocotylea. *Annales des Sciences Naturelles, Zoologie, (13ème Série)*, 7, 143-152.
- JUSTINE J.-L., MATTEI X., 1985c. Ultrastructure du spermatozoïde de trois Monogènes Polyopisthocotylea: *Cemocotyle*, *Heteraxine* et *Heteraxinoides*. *Annales de Parasitologie Humaine et Comparée*, 60, 569-663.
- JUSTINE J.-L., MATTEI X., 1985d. Ultrastructure de la spermiogenèse et du spermatozoïde de *Loimosina wilsoni* et affinités phylétiques des Loimoidae (Plathelminthes, Monogenea, Monopisthocotylea). *Zoologica Scripta*, 14, 169-175.
- JUSTINE J.-L., MATTEI X., 1986a. Ultrastructural observations on fertilization in *Dionchus remorae* (Platyhelminthes, Monogenea, Dionchidae). *Acta Zoologica (Stockholm)*, 67, 97-101.
- JUSTINE J.-L., MATTEI X., 1986b. Comparative ultrastructural study of spermiogenesis in monogeneans (flatworms). 5. *Calceostoma* (Monopisthocotylea Calceostomatidae). *Journal of Ultrastructure and Molecular Structure Research*, 96, 54-63.
- JUSTINE J.-L., MATTEI X., 1987. Phylogenetic relationships between the families Capsalidae and Dionchidae (Platyhelminthes, Monogenea, Monopisthocotylea) indicated by the comparative ultrastructural study of spermiogenesis. *Zoologica Scripta*, 16, 111-116.
- JUSTINE J.-L., MATTEI X., 1988. Bending of 9+1 axonemes of flatworm spermatozoa in hypotonic media: an experimental study. *Journal of Ultrastructure and Molecular Structure Research*, 100, 31-38.
- JUSTINE J.-L., MATTEI X., EUZET L., 1991. Ultrastructure of spermatozoa in two monopisthocotylean monogeneans: *Encotyllabe* sp. (Capsalidae) and *Tetraonchoides* sp. (Tetraonchoididae). *Annales de Parasitologie Humaine et Comparée*, 66, 173-178.

- KAYTON R.J., 1986. Histochemistry, X-ray elemental analysis, ultrastructure and development of the haptoral sclerites of *Gyrodactylus* sp. (Platyhelminthes: Monogenea) from the Utah chub, *Gila atraria* (Girard). *Dissertation Abstracts International B*, 46, 2164.
- KEARN G.C., 1978. Eyes with, and without, pigment shields in the oncomiracidium of the monogenean parasite *Diplozoon paradoxum*. *Zeitschrift für Parasitenkunde*, 157, 35-47.
- KEARN G.C., 1984. A possible ciliary photoreceptor in a juvenile polyopisthocotylean monogenean, *Sphyrnura* sp. *International Journal for Parasitology*, 14, 357-361.
- KEARN G.C., 1986. The eggs of monogeneans. *Advances in Parasitology*, 25, 175-273.
- KEARN G.C., BAKER N.O., 1973. Ultrastructural and histochemical observations on the pigmented eyes of the oncomiracidium of *Entobdella soleae*, a monogenean skin parasite of the common sole, *Solea solea*. *Zeitschrift für Parasitenkunde*, 41, 239-254.
- KEARN G.C., GOWING R., 1989. Glands and sensilla associated with the haptor of the gill-parasitic monogenean *Tetraonchus monenteron*. *International Journal for Parasitology*, 19, 673-679.
- KEARN G.C., GOWING R., 1990. Vestigial marginal hooklets in the oncomiracidium of the microbothriid monogenean *Leptocotyle minor*. *Parasitology Research*, 76, 406-408.
- KOHN A., COHEN S.C., BAPTISTA-FARIAS M.D.F.D., 1991. Scanning electron microscopy of *Metamicrocotyla macracantha* Alexander, 1954 and discussion of the validity of *Metamicrocotyla inoblita* Burnheim, 1970 (Monogenea, Microcotylidae). *Revista Instituto Medicina Tropical Sao Paulo*, 33 Suppl 8, S49. (Original not seen).
- KOK D.J., DU PREEZ L.H., 1989. *Polystoma australis* (Monogenea): development and reproduction in neotenic parasites. *South African Journal of Zoology*, 24, 225-230.
- KRITSKY D.C., 1971. Studies on the fine structure of the monogenetic trematode, *Gyrodactylus eucaliae* Ikezaki and Hoffman, 1957. *Dissertation Abstracts International B*, 32, 1924-1925.
- KRITSKY D.C., 1976. [Observations on the ultrastructure of spermatozoa and spermiogenesis in the monogenean *Gyrodactylus eucaliae* Ikezaki et Hoffman, 1957]. *Trudy Dal'nevostochnyi Nauchnyi Tsentralbiologo Pochvennyi Institut, Vladivostok*, 34 (N.S), 70-74 (in Russian).
- KRITSKY D.C., 1978. The cephalic glands and associated structures in *Gyrodactylus eucaliae* Ikezaki and Hoffman, 1957 (Monogenea: Gyrodactylidae). *Proceedings of the Helminthological Society of Washington* 45, 37-49
- KRITSKY D.C., KRUIDENIER F.J., 1976. Fine structure and development of the body wall in the monogenean, *Gyrodactylus eucaliae* Ikezaki and Hoffman, 1957. *Proceedings of the Helminthological Society of Washington*, 43, 47-58.
- KTARI M.-H., 1971. Recherches sur la reproduction et le développement de quelques Monogènes (Polyopisthocotylea) parasites de poissons marins. Thèse d'État, University of Montpellier, Montpellier, France.
- LAMBERT A., LE BRUN N., RENAUD F., 1987. L'étrange reproduction d'un ver parasite. *La Recherche*, 18, 1548-1551.
- LE BRUN N., 1988. Spécificité des relations hôtes-parasites: le modèle Cyprinidae - *Diplozoon*. Thèse, Université des Sciences et Techniques du Languedoc, Montpellier, France.
- LE BRUN N., LAMBERT A., JUSTINE J.-L., 1986. Oncomiracidium, morphogenèse du haptateur et ultrastructure du spermatozoïde de *Pseudodactylogyrus anguillae* (Yin et Sproston, 1948) Gussev, 1965 (Monogenea, Monopisthocotylea, Pseudodactylogyridae n. fam.). *Annales de Parasitologie Humaine et Comparée*, 61, 273-284.

- LI Z.C., FENG W.K., 1991. Scanning electron microscopy of *Dactylogyrus aristichthys* Long & Yu, 1958. *Annual Bulletin of the Society of Parasitology, Guangdong Province*, 12, 187-189. (in Chinese).
- LIN G.H., LI Z.C., 1991. Scanning electron microscopy of *Cycloplectanum lantauensis* and *Cycloplectanum hongkongensis* from *Epinephelus* spp. *Annual Bulletin of the Society of Parasitology, Guangdong Province*, 12, 189-191. (in Chinese).
- LIU J.Y., JIANG F.M., LONG S., 1988. The ultrastructure of the topography of *Diplorchis nigromaculatus*. *Acta Zoologica Sinica*, 34, 93-95. (in Chinese).
- LUMSDEN R.D., 1975. Surface ultrastructure and cytochemistry of parasitic helminths. *Experimental Parasitology*, 37, 267-339.
- LYONS K.M., 1968. A comparison of the adult epidermis of some monogeneans: the development of the outer layer in *Entobdella soleae*. *Parasitology*, 58, 14p-15p.
- LYONS K.M., 1969a. Sense organs of monogenean skin parasites ending in a typical cilium. *Parasitology*, 59, 611-623.
- LYONS K.M., 1969b. Compound sensilla in monogenean skin parasites. *Parasitology*, 59, 625-636.
- LYONS K.M., 1970a. The fine structure and function of the adult epidermis of two skin parasitic monogeneans, *Entobdella soleae* and *Acanthocotyle elegans*. *Parasitology*, 60, 39-52.
- LYONS K.M., 1970b. Fine structure of the outer epidermis of the viviparous monogenean *Gyrodactylus* sp. from the skin of *Gasterosteus aculeatus*. *Journal of Parasitology*, 56, 1110-1117.
- LYONS K.M., 1971. Comparative electron microscope studies on the epidermis of the blood living juvenile and gill living adult stages of *Amphibdella flavolineata* (Monogenea) from the electric ray *Torpedo nobiliana*. *Parasitology*, 63, 181-190.
- LYONS K.M., 1972. Ultrastructural observations on the epidermis of the polyopisthocotylean monogeneans *Rajonchotyle emarginata* and *Plectanocotyle gurnardi*. *Zeitschrift für Parasitenkunde*, 40, 87-100.
- LYONS K.M., 1973a. Epidermal fine structure and development in the oncomiracidium larva of *Entobdella soleae* (Monogenea). *Parasitology*, 66, 321-333.
- LYONS K.M., 1973b. Scanning and transmission electron microscope studies on the sensory sucker papillae of the fish parasite *Entobdella soleae* (Monogenea). *Zeitschrift für Zellforschung und Mikroskopische Anatomie*, 137, 471-480.
- LYONS K.M., 1973c. The epidermis and sense organs of the Monogenea and some related groups. *Advances in Parasitology*, 11, 193-232.
- LYONS K.M., 1977. Epidermal adaptations of parasitic platyhelminths. *Symposium of the Zoological Society of London*, 39, 97-144.
- MACDONALD S., CALEY J., 1975. Sexual reproduction in the monogenean *Diclidophora merlangi*: tissue penetration by sperms. *Zeitschrift für Parasitenkunde*, 45, 323-334.
- MAILLARD C., GONZALEZ J., NOISY D., 1982. A scanning electron microscope study of the male copulatory sclerite of the monogenean *Diplectanum aequans*. *Parasitology*, 84, 63-64.
- MALMBERG G., 1987. *Gyrodactylus* en haptormask av ekonomiskt intresse för fiskodlare. *Vattenbruk*, 5, 15-20.
- MALMBERG G., 1988. *Gyrodactylus salaris* - infektioner, laxfisktransporter och odling i Norden. *Vattenbruk*, 6, 22-24 & 26-29.
- MALMBERG G., 1990. On the ontogeny of the haptor and the evolution of the Monogenea. *Systematic Parasitology*, 17, 1-65.

- MALMBERG G., AFZELIUS B.A., 1990. Sperm ultrastructure in *Myxinidocotyle* and *Acanthocotyle* (Platyhelminthes, Monogenea, Acanthocotylidae). *Zoologica Scripta*, 19, 129-132.
- MALMBERG G., FERNHOLM B., 1989. *Myxinidocotyle* gen. n. and *Lophocotyle* Braun (Platyhelminthes, Monogenea, Acanthocotylidae) with descriptions of three new species from hagfishes (Chordata, Myxinidae). *Zoologica Scripta*, 18, 187-204.
- MALMBERG G., FERNHOLM B., 1991. Locomotion and attachment to the host of *Myxinidocotyle* and *Acanthocotyle* (Monogenea, Acanthocotylidae). *Parasitology Research*, 77, 415-420.
- MALMBERG G., MALMBERG M., 1986. Gyrodactylus in salmon and rainbow trout farms. In STENMARK A., MALMBERG G., Parasites and diseases in natural waters and aquaculture in Nordic countries. Proceedings of a Symposium, 2-4 December, 1986, Stockholm, Sweden, 199-204.
- MEHLHORN H., 1988. Reproduction, Platyhelminthes. In MEHLHORN H., Parasitology in Focus, 330-344. Springer-Verlag, Berlin.
- MEHLHORN H., FRANZ M., TARASCHEWSKI H., VOIGT W.P., WALLDORF V., 1988. Morphology, Metazoan organization. In MEHLHORN H., Parasitology in Focus, 221-294. Springer-Verlag, Berlin.
- MERGO J.C.JR., CRITES J.L., 1982a. Surface morphology of *Microcotyle spinicirrus* (Trematoda: Monogenea). *Ohio Journal of Science*, 82, 108-109.
- MERGO J.C.JR., CRITES J.L., 1982b. Ultrastructure and development of the clamp wall of *Microcotyle spinicirrus* (Monogenea). *Molecular and Biochemical Parasitology*, 0 (Suppl.), 711-712.
- MERGO J.C.JR., CRITES J.L., 1984. Ultrastructure of the clamp generating region of *Microcotyle spinicirrus* MacCallum, 1918 (Monogenea: Microcotylidae). *Ohio Journal of Science*, 84, 2.
- MO T.A., APPLEBY C., 1990. A special technique for studying haptor sclerites of monogeneans. *Systematic Parasitology*, 17, 103-108.
- MOKHTAR-MAAMOURI F., LAMBERT A., MAILLARD C., VAGO C., 1976. Infection virale chez un Plathelminthe parasite. *Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences Série D Sciences Naturelles*, 283, 1249-1251.
- MORRIS G.P., 1973. Scanning electron microscopy of trematodes embedded for transmission electron microscopy. *Journal of Parasitology*, 59, 806-809.
- MORRIS G.P., HALTON D.W., 1971. Electron microscope studies of *Diclidophora merlangi* (Monogenea: Polyopisthocotylea). II. Ultrastructure of the tegument. *Journal of Parasitology*, 57, 49-61.
- MORRIS G.P., HALTON D.W., 1975. The occurrence of bacteria and mycoplasma-like organisms in a monogenean parasite *Diclidophora merlangi*. *International Journal for Parasitology*, 5, 495-498.
- OLIVER G., 1976a. Étude de *Diplectanum aequans* (Wagener, 1857) Diesing, 1858 (Monogenea, Monopisthocotylea, Diplectanidae) au microscope électronique à balayage. *Zeitschrift für Parasitenkunde*, 51, 91-98.
- OLIVER G., 1976b. Les structures superficielles et l'appareil de fixation de *Diplectanum aequans* (Wagener, 1857) Diesing, 1858 (Monogenea, Monopisthocotylea, Diplectanidae) parasite des branchies de *Dicentrarchus labrax* (Linnaeus, 1758) (Pisces, Serranidae). *Bulletin de la Société Zoologique de France*, 101, 1065 .
- OLIVER G., 1981. Étude de *Microcotyle labracis* Van Beneden et Hesse, 1863 (Monogenea, Polyopisthocotylea, Microcotylidae) au microscope électronique à balayage. *Zeitschrift für Parasitenkunde*, 65, 235-240.

- PASCOE P.L., 1987. Monogenean parasites of deep-sea fishes from the Rockall Trough (N. E. Atlantic) including a new species. *Journal of the Marine Biological Association of the United Kingdom*, 67, 603-622.
- PICHELIN S., WHITTINGTON I., PEARSON J., 1991. *Concinnocotyla* (Monogenea: Polystomatidae), a new genus for the polystome from the Australian lungfish *Neoceratodus forsteri*. *Systematic Parasitology*, 18, 81-93.
- RAMASAMY P., HANNA R.E.B., 1985. The surface topography of *Pseudothoracocotyla indica* (Unnithan, 1956) (Monogenea) from the gills of *Scomberomorus commerson*. *Zeitschrift für Parasitenkunde*, 71, 575-581.
- RAMASAMY P., HANNA R.E.B., 1986a. The surface topography of *Bicotyle vellavoli* (Monogenea) from the gills of *Pampus chinensis*. *International Journal for Parasitology*, 16, 591-594.
- RAMASAMY P., HANNA R.E.B., 1986b. The surface topography of a monogenean *Heterapta chorinemi* from the gills of *Scomberoides commersonianus*. *International Journal for Parasitology*, 16, 595-600.
- RAMASAMY P., HANNA R.E.B., 1989. The surface topography of *Gotocotyla secunda* and *Gotocotyla bivaginalis* (Monogenea, Polyopisthocotylea) from *Scomberomorus commerson*. *International Journal for Parasitology*, 19, 63-69.
- RAMASAMY P., HANNA R.E.B., THREADGOLD L.T., 1986. The surface topography and ultrastructure of the tegument and haptor of *Pricea multae* (Monogenea). *International Journal for Parasitology*, 16, 581-589.
- RAMASAMY P., HANNA R.E.B., THREADGOLD L.T., 1987. Scanning and transmission electron microscopic studies of the surface of *Vallisia indica* (Monogenea Polyopisthocotylea). *International Journal for Parasitology*, 17, 1187-1195.
- RAND T.G., WILES M., ODENSE P., 1986. Attachment of *Dermophthirius carcharhini* (Monogenea: Microbothriidae) to the Galapagos shark *Carcharhinus galapagensis*. *Transactions of the American Microscopical Society*, 105, 158-169.
- REES J.A., KEARN G.C., 1984. The anterior adhesive apparatus and an associated compound sense organ in the skin-parasitic monogenean *Acanthocotyle lobianchi*. *Zeitschrift für Parasitenkunde*, 70, 609-625.
- ROHDE K., 1971. Phylogenetic origin of trematodes. *Parasitologische Schriftenreihe*, 21, 17-27.
- ROHDE K., 1972. Ultrastructure of the nerves and sense receptors of *Polystomoides renschi* Rohde and *P. malayi* Rohde (Monogenea: Polystomatidae). *Zeitschrift für Parasitenkunde*, 40, 307-320.
- ROHDE K., 1973a. Ultrastructure of the protonephridial system of *Polystomoides malayi* Rohde and *P. renschi* Rohde (Monogenea: Polystomatidae). *International Journal for Parasitology*, 3, 329-333.
- ROHDE K., 1973b. Ultrastructure of the caecum of *Polystomoides malayi* Rohde and *P. renschi* Rohde (Monogenea: Polystomatidae). *International Journal for Parasitology*, 3, 461-466.
- ROHDE K., 1973c. Light- and electron microscopic studies of the tegument of *Polystomoides malayi* Rohde and *P. renschi* Rohde (Monogenea: Polystomatidae). *Zeitschrift für Wissenschaftliche Zoologie*, 186, 161-172.
- ROHDE K., 1974. Light- and electron-microscopic studies of the pharynx and the anterior and posterior glands of *Polystomoides* (Monogenea: Polystomatidae). *Zoologische Jahrbucher, Abteilung für Anatomie und Ontogenie der Tiere*, 92, 1-17.
- ROHDE K., 1975. Fine structure of the Monogenea, especially *Polystomoides* Ward. *Advances in Parasitology*, 13, 1-33.
- ROHDE K., 1979. The buccal organ of some Monogenea Polyopisthocotylea. *Zoologica Scripta*, 8, 161-170.

- ROHDE K., 1980. Some aspects of the ultrastructure of *Gotocotyla secunda* and *Hexostoma euthynni*. *Angewandte Parasitologie*, 21, 32-48.
- ROHDE K., 1981. Ultrastructure of the buccal organs and associated structures of *Zeuxapta seriolae* (Meserve, 1938) Price, , 1962, and *Paramicrocotyloides reticularis* Rohde, 1978 (Monogenea, Polyopisthocotylea). *Zoologischer Anzeiger*, 206, 279-291.
- ROHDE K., 1982a. The flame cells of a monogenean and an aspidogastreaean, not composed of two interdigitating cells. *Zoologische Anzeiger*, 209, 311-314.
- ROHDE K., 1982b. The nervous system of parasitic helminths. In METTRICK D.F., DESSER S.S, Parasites their world and ours. Proceedings of the 5th International Congress of Parasitology, Toronto, Canada, 7-14 August, Elsevier Biomedical Press, Amsterdam, 70-72
- ROHDE K., 1986. Ultrastructure of the pharynx and some parenchyma cells of *Zeuxapta seriolae* and *Paramicrocotyloides reticularis* (Monogenea: Polyopisthocotylea: Microcotylidae). *Australian Journal of Zoology*, 34, 473-484.
- ROHDE K., 1989. Ultrastructure of the protonephridial system of *Gyrodactylus* (Monogenea, Gyrodactylidae). *Zoologische Anzeiger*, 223, 311-322.
- ROHDE K., 1990. Phylogeny of Platyhelminthes, with special reference to parasitic groups. *International Journal for Parasitology*, 20, 979-1007.
- ROHDE K., JUSTINE J.-L., WATSON N., 1989. Ultrastructure of the flame bulbs of the monopisthocotylean monogenea *Loimosina wilsoni* (Loimoidae) and *Calceostoma herculanea* (Calceostomatidae). *Annales de Parasitologie Humaine et Comparée*, 64, 433-442.
- ROHDE K., WATSON N., ROUBAL F., 1989. Ultrastructure of the protonephridial system of *Dactylogyrus* sp. and an unidentified ancycrocephaline (Monogenea: Dactylogyridae). *International Journal for Parasitology*, 19, 859-864.
- ROHDE K., WATSON N., ROUBAL F., 1992. Ultrastructure of the protonephridial system of *Anoplodiscus cirrusspiralis* (Monogenea Monopisthocotylea). *International Journal for Parasitology*, 22, 443-457.
- ROUBAL F.R., WHITTINGTON I.D., 1990. Observations on the attachment by the monogenean, *Anoplodiscus australis*, to the caudal fin of *Acanthopagrus australis*. *International Journal for Parasitology*, 20, 307-314.
- SCHMAHL G., ELWASILA M., 1992. Fine structure of spermatogenesis in monopisthocotylean monogeneans (*Macrogyrodactylus polypteri*; *Pseudodactylogyrus bini*). *Folia Parasitologica (Praha)*, 39, 19-31.
- SCHMAHL G., MEHLHORN H., HABERKORN A., 1988. Sym. Triazinone (toltrazuril) effective against fish-parasitizing Monogenea. *Parasitology Research*, 75, 67-68.
- SCHMAHL G., OBIEKEZIE A., 1991 Fine structure of spermatogenesis in polyopisthocotylid monogeneans (*Protomicrocotyle ivoriensis*, *Gastrocotyle* sp.). *Parasitology Research*, 77, 115-122.
- SCHMAHL G., RAETHER W., MEHLHORN H., 1992. Hoe 092 V, a new triazine derivative effective against a broad spectrum of fish and crustacean parasites. *Parasitology Research*, 78, 702-706.
- SHAW M.K., 1979a. The ultrastructure of the clamp wall of the monogenean gill parasite *Gastrocotyle trachuri*. *Zeitschrift für Parasitenkunde*, 58, 243-258.
- SHAW M.K., 1979b. The ultrastructure of the clamp sclerites in *Gastrocotyle trachuri* and other clamp-bearing monogeneans. *Zeitschrift für Parasitenkunde*, 59, 43-51.
- SHAW M.K., 1980. The ultrastructure of the epidermis of *Diplectanum aequans* (Monogenea). *Parasitology*, 80, 9-21.

- SHAW M.K., 1981a. The ultrastructure of the pseudohaptoral squamodiscs of *Diplectanum aequans* (Monogenea). *Parasitology*, 82, 231-240.
- SHAW M.K., 1981b. The ultrastructure of synapses in the brain of *Gastrocotyle trachuri* (Monogenea, Platyhelminthes). *Cell & Tissue Research*, 220, 181-189.
- SHAW M.K., 1982. The fine structure of the brain of *Gastrocotyle trachuri* (Monogenea: Platyhelminthes). *Cell & Tissue Research*, 226, 449-460.
- SHUKLA R., 1990. Scanning electron microscopic studies on *Diplozoon lucknowensis* (Monogenea-Trematoda) with reference to its host gill pathology. *Biological Memoirs*, 16, 33-36.
- SKOWERSKA M., CZECHOWICZ K., 1985. Fine structure of the cerebral ganglion neurons in *Polystoma integerrimum* (Frölich) with the reference to their neurosecretory nature. *Zoologica Poloniae*, 32, 191-202.
- SLUSAREV G.S., 1983. [Structure of the epidermis of *Diclybothrium armatum* Leuckart (Monogenea, Diclybothriidae)]. *Trudy Zoologicheskogo Instituta (Leningrad)*, 121, 48-51. (in Russian).
- SPENCER JONES M.E., GIBSON D.I., 1990. A list of old and recently erected monogenean genus-group names not included in Yamaguti's *Systema helminthum*. *Systematic Parasitology*, 16, 213-226.
- STRANOCK S.D., HARDCASTLE D.W., 1975. Ultrastructural observations on Mehlis' gland in the monogeneans, *Diplozoon paradoxum* and *Calicotyle kröyeri*. *International Journal for Parasitology*, 5, 541-550.
- TAPPENDEN T., KEARN G.C., 1990. Spermiogenesis and sperm ultrastructure in the monogenean parasite *Acanthocotyle lobianchi*. *International Journal for Parasitology*, 20, 747-753.
- TAPPENDEN T., KEARN G.C., 1991a. Spermiogenesis and sperm ultrastructure in the monocotylid monogenean parasite *Calicotyle kroyeri*. *International Journal for Parasitology*, 21, 57-63.
- TAPPENDEN T., KEARN G.C., 1991b. Crystalline bodies associated with spermatozoa in the vas deferens of the monogeneans *Entobdella soleae* and *E. hipoglossi*. *Parasitology Research*, 77, 421-424.
- THONEY D.A., 1988. Morphology of the oncomiracidium of *Heteraxinoides xanthophilus* (Monogenea), a gill parasite of *Leiostomus xanthurus*. *Transactions of the American Microscopical Society*, 107, 345-354. (Original not seen).
- THREADGOLD L.T., 1984. Parasitic platyhelminths. In BEREITER-HAHN J., MATOLSKY A.G., RICHARDS, K.S., *Biology of the integument*. 1. Invertebrates. Springer-Verlag, Berlin.
- THULIN J., HÖGLUND J., LINDESJÖÖ E., 1989. Fisksjukdomar i kustvatten [Fish diseases in coastal waters of Sweden]. Naturvårdverket, Stockholm.
- TIEKOTTER K. L., 1988. Histofluorescent and ultrastructural identification of aminergic processes in the opisthaptor of the marine monogene, *Microcotyle sebastis* (Polyopisthocotylea: Microcotylidae). *Proceedings of the Helminthological Society of Washington*, 55, 229-245.
- TINSLEY R.C., 1973. Ultrastructural studies on the form and function of the gastrodermis of *Protopolystoma xenopi* (Monogenoidea: Polyopisthocotylea). *Biological Bulletin*, 144, 541-555.
- TINSLEY R.C., 1974. The gut ultrastructure of the Polystomatidae (Monogenea). *Parasitology*, 69, ii-iii.
- TUZET O., KTARI M.-H., 1971a. La spermiogénèse et la structure du spermatozoïde de *Microcotyle mormyri* Lorenz, 1878 (Monogenea). *Comptes Rendus de l'Académie des Sciences (Paris) Série D. Sciences Naturelles*, 272, 2702-2705.

- TUZET O., KTARI M.-H., 1971b. Recherches sur l'ultrastructure du spermatozoïde de quelques Monogènes. *Bulletin de la Société Zoologique de France*, 96, 535-540.
- TYLER S., SMITH J.P.S. III, RIEGER R.M., EHLERS U., GREMIGNI V., 1986. Electron microscopy of turbellarian platyhelminths: a bibliography. *Hydrobiologia*, 132, 323-343.
- ULMER M.J., ROHDE K., 1978. Morphology and taxonomy of parasitic helminths. In SLUSARSKI W., Review of advances in Parasitology. PWN, Polish Scientific Publishers, Warsaw, Poland, 153-166. (Original not seen).
- WATSON N.A., ROHDE K., 1992. Ultrastructure of sperm and spermatogenesis of *Anoplodiscus cirrusspiralis* (Platyhelminthes, Monogenea, Monopisthocotylea). *Annales de Parasitologie Humaine et Comparée*, 67, 131-140.
- WHITTINGTON I.D., 1987. A comparative study of the anatomy of the oncomiracidia of the hexabothriid monogeneans *Rajonchocotyle emarginata* and *Hexabothrium appendiculatum*. *Journal of the Marine Biological Association of the United Kingdom*, 67, 757-772.
- WHITTINGTON I.D., 1990. The egg bundles of the monogenean *Dionchus remorae* and their attachment to the gills of the remora, *Echeneis naucrates*. *International Journal for Parasitology*, 20, 45-49.
- WHITTINGTON I.D., KEARN G.C., 1986. Rhythmical hatching and oncomiracidial behaviour in the hexabothriid monogenean *Rajonchocotyle emarginata* from the gills of *Raja* spp. *Journal of the Marine Biological Association of the United Kingdom*, 66, 93-111.
- WHITTINGTON I.D., KEARN G.C., 1989. Rapid hatching induced by light intensity reduction in the polyopisthocotylean monogenean *Plectanocotyle gurnardi* from the gills of gurnards (Triglidae), with observations on the anatomy and behaviour of the oncomiracidium. *Journal of the Marine Biological Association of the United Kingdom*, 69, 609-624.
- WHITTINGTON I.D., PICHELIN S., 1991. Attachment of eggs by *Concinnocotyla australensis* (Monogenea: Polystomatidae) to the tooth plates of the Australian lungfish, *Neoceratodus forsteri* (Dipnoi). *International Journal for Parasitology*, 21, 341-346.
- WRIGHT K.A., DECHTIAR A., 1974. Light and scanning electron microscopy of attachment organs of three monogeneans (Monogenoidea: Polyopisthocotylea). *Canadian Journal of Zoology*, 52, 183-187.
- YOUSIF M.S., CRANE J.W., 1979. Ultrastructure and spermiogenesis in *Microcotyle sebastis* (Goto) 1894 (Monogenea). In BYLUND, G. (Editor): Proceedings of IX Symposium of the Scandinavian Society for Parasitology, Åbo, Finland, 11-13 June, 1979. Abstracts. *Information, Institute of Parasitology, Åbo Akademi*, 15, 5-6.
- ZHANG S., 1987. [Ultrastructure of ocellus in the oncomiracidium of *Diplorchis* sp. (Monogenea, Polystomatidae)]. *Acta Zoologica Sinica*, 33, 380. (in Chinese).
- ZHANG S., LANG S., 1990. [Tegument of *Diplorchis hangzhouensis* (Monogenea: Polystomatidae) in various stages of life cycle]. *Acta Zoologica Sinica*, 36, 217-221. (in Chinese).