

## FINAL CIRCULAR– ISM6

**6<sup>th</sup> International Symposium on  
Monogenea**

**2-7 August 2009**

**Marine and Coastal Management (MCM),**

**National Research Aquarium**

**Sea Point, Cape Town**

**South Africa**



### IMPORTANT MESSAGE

Dear Symposium Delegate

ISM 6 is around the corner and we are busy with final preparations. We trust that this symposium will be a memorable one and that you will enjoy both the academic and social parts thereof.

To ensure that everything runs smoothly, the organising committee have put together this information package to assist with your conference preparations. If anything is still unclear or you require additional information, please do not hesitate to contact the organising committee. Included in this information package is the program for the oral presentations and a list of poster presentations that we have received. Please ensure that these details are correct as some delegates indicated that they intend to present a paper but entered the title as a poster on the registration form and *vice versa*.

Airport transfers have been arranged and these will take you from the airport to your hotel on arrival and then back to the airport after the symposium. In order for us to provide this service, we will need you to complete the attached form providing your correct travel arrangements.

Conference registration will take place from 16:00 – 19:00 at the Two Oceans Aquarium on Sunday 2 August 2009 and will be followed by the opening cocktail party at the Two Oceans Aquarium which starts at 19:00 – 22:00. Further registration will take place at the venue from 08:00 on Monday 3 August 2009.

As part of our service to the symposium, we will provide morning and afternoon shuttles to and from the following hotels: Protea Hotels Breakwater Lodge, Protea Hotels Victoria Junction and the New Kings Hotel. If you are not staying in any of these hotels, you will need to either get to one of the hotels or to the conference venue on your own.

In addition to the scientific program, we will be hosting three social events and a mid symposium outing. A cash bar will be available at all of the social functions and it is therefore necessary to have some cash to purchase refreshments. Monday, Wednesday and Thursday evenings are free evenings and you are free to explore the city's night life. Please take note of the safety warnings when venturing out after dark.

On Tuesday 4 August, an opportunity will be provided for those interested in hosting ISM 7. If anyone is interested please prepare a short presentation in support of your bid and inform the current organising committee so we can co-ordinate these presentations.

This information and any last minute arrangements will be posted on the conference web page: <http://www.gyrodnet.net/ISM6.php>

The organising committee would like to wish you all a pleasant journey and look forward to hosting you in the Mother City.

Organisers

## SYMPOSIUM TIMETABLE AT A GLANCE

### SUNDAY 2 AUGUST 2009

- 16:00 – 19:00 Registration Desk Open at Two Oceans Aquarium  
19:00 – 22:00 Welcome Reception Cocktail Party at Two Oceans Aquarium

### MONDAY 3 AUGUST 2009

- 08:00 – 09:00 Registration Desk Open at MCM Research Aquarium, Sea Point  
09:00 – 09:30 Opening of Symposium  
09:30 – 10:30 **Session 1 – Parasitism and Monogenea in Africa**  
10:30 – 11:00 Morning Tea  
11:00 – 12:30 **Session 1 – Parasitism and Monogenea in Africa**  
12:30 – 13:30 Lunch  
13:30 – 15:00 **Session 2 – Molecular Phylogenetics and Phylogeography**  
15:00 – 15:30 Afternoon Tea  
15:30 – 16:00 **Session 3 – Functional Morphology**  
16:00 – 17:30 Poster Session1  
*FREE EVENING.* Shuttles start leaving from Sea Point to Hotels from 17:00

### TUESDAY 4 AUGUST 2009

- 09:00 – 10:30 **Session 4 - Polystomes**  
10:30 – 11:00 Morning Tea  
11:00 – 12:00 **Session 5 – Research Techniques and Methods**  
12:00 – 12:30 **Presentations and discussion regarding ISM7**  
12:30 – 13:30 Lunch  
13:30 – 15:00 **Session 6 - Monogeneans and Parasites in Aquaculture**  
15:00 – 15:30 Afternoon Tea  
15:30 – 16:30 **Session 6 - Monogeneans and Parasites in Aquaculture**  
16:30 Buses depart for Bloemendal Restaurant  
17:00 – 22:00 Social Braai at Bloemendal with aquaculture industry representatives

### WEDNESDAY 5 AUGUST 2009

- 08:00 – 18:00 *Mid Symposium Tour – FREE EVENING*

### THURSDAY 6 AUGUST 2009

- 09:00 – 10:30 **Session 7 – Systematics and Biodiversity**  
10:30 – 11:00 Morning Tea

11:00 – 12:45      **Session 7 – Systematics and Biodiversity**

12:45 – 13:30      Lunch

13:30 – 15:00      **Session 8 - Gyrodactylids**

15:00 – 15:30      Afternoon Tea

15:30 – 16:15      **Session 8 - Gyrodactylids**

16:15 – 17:30      Poster Session 2

**FREE EVENING.** Shuttles start leaving from Sea Point to Hotels at 17:00

## **FRIDAY 7 AUGUST 2009**

09:00 – 10:30      **Session 9 Monogenean Databasing and Biodiversity**

10:30 – 11:00      Morning Tea

11:00 – 12:30      **Session 10 – Concepts in Monogenean Biology and Ecology**

12:30 – 13:30      Lunch

13:30 – 14:45      **Session 10 – Concepts in Monogenean Biology and Ecology**

14:45 – 15:15      Closing

15:15 – 22:00      Buses depart from Sea Point for Wellington for Conference Dinner & Awards

## **STUDENT AWARDS**

Student presentations will be judged and prizes will be awarded to best student oral and poster presentations. Presentations will be judged on the presentation, organisation, content, timing and questions. Awards will be presented during the Conference Dinner.

## **AIRPORT TRANSFERS**

A shuttle service will be available to collect delegates from the Cape Town International Airport and deliver them to their respective hotels. Conference staff will be visible, wearing the ISM6 branded T-shirts, so look out for them. Please could you supply us with your flight details (SEE ATTACHED FORM). The shuttle service will transfer delegates back to Cape Town International Airport after the conference.

## **LOCAL TRANSPORTATION**

Various formal and informal taxis and buses are available from just about anywhere to anywhere. However, be warned! Public transport in Cape Town is generally not considered of international standard, and the less formal taxi operators (minibuses) have a reputation for being aggressive drivers and for overloading vehicles with passengers. If you wish to hire a taxi, it is best to request a list of approved operators from the information desk at your hotel. A “topless” bus tour of the city conveniently has a stop just outside the Two Oceans Aquarium. Here you can hop on and off at various tourist locations around the city. The route is circular, so you can find your way back to the aquarium easily.

## WEATHER

Situated at Latitude 33.55° S, Longitude 18.22° E, the city enjoys a Mediterranean climate. The winter months in Cape Town (June – August) are characterised by short days with late sunrises and early sunsets and the average daily temperature for this time of the year is 17°C (8-20°C). Bring an umbrella or raincoat. Winter in Cape Town is typically rainy, although it is not uncommon to experience a few warmer sunny days.

## HEALTH RISKS

When it comes to health in Cape Town, tourists can be assured that no health risks exist and that there is no need for a tourist to be vaccinated before entering South Africa. It is however advised for all tourists to take out medical insurance, not only when visiting South Africa but for other destinations as well. Cape Town is clean and safe and the tap water of South Africa is safe to drink, unless otherwise stated. Visitors to South Africa may be sensitive to the strong South African sun and therefore a good sunscreen must be applied for skin protection. It is not required for tourists of Cape Town to bring any non-prescriptive drugs as the Pharmacies of South Africa are stocked with medicines of local and international branding. Staffing of Pharmacies is by highly qualified pharmacists. Cape Town and the Western Cape are malaria-free. For those wishing to extend their stay in South Africa and visit the Kruger National Park in the Mpumalanga province and surrounds, please visit the following link: <http://www.sa-venues.com/malaria-risk-areas.htm> as you may require anti-malarial medication. In addition, with the international awareness of the H1N1 swine flu virus, please be advised that the following site can be accessed if you require any information regarding the virus and South Africa: <http://www.nicd.ac.za> . This site is provided by the National Institute for Communicable Diseases and is updated regularly.

## SAFETY

As in any big city it is not safe to wander at night by yourself through the streets of Cape Town. Stay in groups. If you are unsure please speak to any of the organisers. For the free evenings it is suggested that you make use of the hotel shuttles if provided or a taxi service to transport you to your destination. To reiterate however, please do not use informal public transport and avoid the use of trains after 18:00.

## BANKING

South Africa has a world-class and modern financial sector. Banks and automatic teller machines (ATMs) are available at most major shopping centres. All major credit cards can be used in South Africa, although American Express and Diners Club may not be accepted everywhere. MasterCard and Visa are generally accepted. Please ensure that your cards have been approved by your local bank for international use before you leave for South Africa. Over-the-counter bank transactions in some banks may require proof of identification, so please ensure that you have your passport with you if you intend on banking over the counter. Although English is the universal language used in our banks, you may find difficulty understanding the South African accent, which varies from mild to heavy depending on the home language of the individual. South Africans are generally accommodating so if you don't understand, ask them to repeat themselves slowly. Bear in mind that your accent may also be tricky for them to understand. Do ensure that you have some converted currency for use upon arrival in South Africa.

## **CURRENCY, TIPPING AND GOODS & SERVICE TAX**

The currency in South Africa is the Rand. Its value is generally 1/10<sup>th</sup> that of the US\$. All currencies can be exchanged at the various banks and bureaux de change, but you may find that the bureaux de change charges less for the conversions than the banks. The Rand notes include R10 (green), R20 (brown), R50 (pink), R100 (blue) and R200 (orange). Rand coins include R1, R2 and R5, and small change includes 5c, 10c, 20c, 50c coins although it is unlikely you will be given anything smaller than 10c coins in change these days.

Tipping is generally expected if you are being served by a waitron (politically correct term for waiter or waitress in South Africa) at a restaurant. Tipping of waitrons is usually 10% of the bill received. You are not obliged to tip for particularly poor service.

Value Added Tax (VAT) is currently set at 14%. VAT is included in the price of most goods and services. Foreign visitors are not exempt from paying VAT on purchased goods in South Africa. You may, however, claim back VAT paid on items taken out of the country when the total value of these goods exceeds R250. The refund may be lodged with the VAT Refund Administrator's offices, which are situated at Johannesburg and Cape Town International Airports.

## **BEER CONTEST**

We will have delegates from all parts of the globe and want to invite you to bring with you a can or bottle of traditional beer from your country. At the symposium we will have a contest during which a panel of experts will judge the can / bottle and the contents.

## **OTHER INFORMATION**

For those bringing laptop computers or cell phones with chargers, South African electricity operates on 220-240V. Plugs used here are typically the 3-pin standard round type, and 2-pin round type for smaller plugs. Adapters are usually available in the Duty-Free shops at the Oliver Tambo International Airport (Johannesburg Airport), although they should also be available in your local travel shops. If you are renting a vehicle, please remember that in South Africa we drive on the left, and that all pedestrians must first look right when crossing any of our roads. Do not assume that traffic signals for pedestrians give right of way. In South Africa it is not uncommon for traffic signals to indicate green for crossing pedestrians and traffic at the same time! When crossing on dedicated pedestrian crossings (Zebra crossings), please be vigilant. Not all traffic will yield to your right of way. Crime in South Africa is unfortunately a reality. Please do not venture out into dark streets at night and ensure that your valuables such as cameras and wallets are kept out of sight. Passports should be locked away at your hotel for safe-keeping.

For all adventure-seekers, a ride up to the top of Table Mountain in the cable car is great fun on a sunny day and a great view of Cape Town. The "topless" bus (see local transport) stops here during its route. The Two Oceans Aquarium is situated in the V & A waterfront and is easily accessible from your hotels via taxi or bus. The aquarium is open from 09:30-18:00 daily and feeding of the 2.2 million litre I & J Predator exhibit commences daily at 15:00. The sharks are fed on Sundays only. The waterfront also offers a good shopping experience and there are several banks and bureaux de change available in the main shopping centre.

# SCIENTIFIC PROGRAM

## PROGRAM FOR ORAL PRESENTATIONS

I= Invited talk, C=contributed talk

(underline indicates presenting author; underlined number indicates student presentation)

**MONDAY 3 AUGUST 2009**

### OPENING

09:00 – 09:30 **Symposium Opening**

### SESSION 1 PARASITISM AND MONOGENEA IN AFRICA

09:30 – 10:00 GRIFFITHS C. Marine biodiversity in South Africa – Evaluating the state of knowledge. **I 1**

10:00 – 10:15 GELNAR M., MUSILOVÁ N., PŘIKRYLOVÁ E., PÁTKOVÁ M., PARISELLE A., VYSKOČILOVA M., ŠIMKOVA A., DÁVIDOVA M., BLAŽEK R., KOUBKOVÁ B., ONDRAČKOVÁ M., BÍMOVÁ B. & REICHARD M. Diversity of monogenean parasites of freshwater fish of West Africa in the light of recent knowledge. **C1**

10:15 – 10:30 MATLA M., LUUS-POWELL W.J., MOKGALONG M. & MASHEGO S. Lake Tzaneen – a sanctuary for monogenean parasites. **C2**

### 10:30 – 11:00 MORNING TEA

11:00 – 11:15 MUSILOVÁ N. & GELNAR M. A systematic survey of monogeneans (Dactylogyridae: Ancyrocephalinae) of characiform fishes from Senegal. **C3**

11:15 – 11:30 MADANIRE G., MATLA M., OLIVIER P. & LUUS-POWELL W.J. A morphological comparison of three species of *Enterogyrus* Paperna, 1963 from the stomach mucosa of *Oreochromis mossambicus* in the Nwanedi-Luphephe dams, South Africa. **C4**

11:30 – 11:45 LE ROUX L. & AVENANT-OLDEWAGE A. Aspects of the pathology of *Cichlidogyrus philander* (Ancyrocephalidae) on the gills of *Pseudocrenilabrus philander philander* collected from the Padda Dam, South Africa. **C5**

11:45 – 12:00 VANHOVE M., HUYSE T., GILLARDIN C., STURMBAUER C., SNOEKS J. & VOLCKAERT F.A.M. First study on monogeneans of Lake Tanganyika: evolution and speciation in gyroductylids and cichlidogyrids on Tropheini cichlids. **C6**

12:00 – 12:15 PŘIKRYLOVÁ I., MATĚJUSOVA I., JIRKŮ M. & GELNAR M. On *Gyrodactylus* species (Monogenea: Gyrodactylidae) from the African Cichlid fishes. **C7**

12:15 – 12:30 MENDLOVÁ M., ŠIMKOVÁ A.V. & VYSKOČILOVÁ M. Molecular phylogeny of monogeneans parasitizing African freshwater fish of Cichlidae inferred from ribosomal DNA sequences. **C8**

### 12:30 – 13:30 LUNCH

### SESSION 2 MOLECULAR PHYLOGENETICS AND PHYLOGEOGRAPHY

13:30 – 14:00 PERKINS L.M., BERTOZZI T., DONELLAN S.C. & WHITTINGTON I.D. An unfaithful family: Comparison of capsalid (Monopisthocotylea) and host phylogenies reveals extensive independent radiation. **C9**

14:00 – 14:15 WHITTINGTON I.D. & PERKINS L.M. Molecular data corrupts 'conventional' capsalid classification: Inconceivable or credible and expected? **C10**

14:15 – 14:30 BUCHMANN K., KANIA P.W., TARASCHEWSKI H. & HAN Y.S. Dispersal history of the monogenean *Pseudodactylogyrus bini* indicated by ribosomal DNA patterns in European and Asian strains. **C11**

14:30 – 14:45	<u>MENDOZA FRANCO E.F.</u> , TORCHIN M.E., REINA R.G. SANJUR O. & BERMINGHAM E. Molecular phylogeography of dactylogyrids infecting Characid fishes in Central America.	C12
14:45 – 15:00	<u>AQUARO G.</u> , STEFANI F., STRONA G. & GALLI P. Genetic bottleneck of a Lessepsian monogenoid migrant, preliminary results.	C13
<b>15:00 – 15:30</b>	<b>AFTERNOON TEA</b>	
<b>SESSION 3</b>	<b>FUNCTIONAL MORPHOLOGY</b>	
15:30 – 15:45	<u>MINARDI D.</u> , WHITTINGTON I.D., KEARN G., PALADINI G., SHINN A.P., FIORAVANTI, M.L. & BRON J.E. Preliminary observations on the reproductive system of <i>Neoentobdella diadema</i> (Monticelli, 1902) Kearns <i>et</i> Whittington, 2005 (Monogenea: Capsalidae).	<u>C14</u>
15:45 – 16:00	SÁNCHEZ-GARCIA N., GROVE S., RAGA J.A. & <u>MONTERO F.E.</u> How to use a lamellodisc.	C15
16:00 – 17:30	<b>POSTER SESSION 1</b> Shuttles will start going back to hotels from 17:00	<b>P1</b>
	<b>FREE EVENING</b>	

## TUESDAY 4 AUGUST 2009

### SESSION 4 POLYSTOMES

09:00 – 09:30	<u>VERNEAU O.</u> & DU PREEZ L. Biological invasions: risks and consequences of monogenean transmission for biodiversity	<b>I 2</b>
09:30 – 09:45	<u>AISEN M.S.O.</u> & DU PREEZ L.H. Contributions to the Polystomes of Amphibians in Africa: A redescription of <i>Polystoma africanum</i> from <i>Amietophrynus regularis</i> .	C16
09:45 – 10:00	<u>RAHARIVOLOLONIAINA L.</u> & DU PREEZ L.H. Madagascan polystomes – five new species of <i>Metapolystoma</i> from Madagascan frogs.	<u>C17</u>
10:00 – 10:15	<u>BADETS M.</u> , MORRISON C. & VERNEAU O. Ecology of <i>Polystoma gallieni</i> (Monogenea, Polyopisthocotylea), an opportunist parasite of the stripeless tree frog <i>Hyla meridionalis</i> .	<u>C18</u>
10:15 – 10:30	<u>FAN L.</u> , ZHONGLI W., YANDONG S. & DU PREEZ L. A new polystomatid of the genus <i>Diplorchis</i> parasitic in <i>Rana maosoensis</i> .	C19

### 10:30 – 11:00 MORNING TEA

### SESSION 5 RESEARCH TECHNIQUES AND METHODS

11:00 – 11:15	<u>HODOVÁ I.</u> , SONNEK R. & GELNAR M. Different microscopic approaches to research on monogenean parasite <i>Eudiplozoon nipponicum</i> .	C20
11:15 – 11:30	<u>VIGNON M.</u> & SASAL P. The use of geometric morphometrics in understanding shape variability of sclerotised haptor structures of monogeneans with insights into biogeographic variability.	<u>C21</u>
11:30 – 11:45	<u>GALLI P.</u> , AQUARO G., FUSI P., FORCELLA M., LEONE B.E., TEDESCHI G., VILLA A.M., DOGLIA S.M., STRONA G., NARDUCCI D., GIOVANNONI R. & LAVITRANO M. New methods to obtain head glands secretions of Monogenoidea: Candidates for industrial production of surgery bioadhesives.	C22
11:45 – 12:00	<u>AGRAWAL N.</u> , AGARWAL G.G., TRIPATHI P. & PANT R. Discriminant analysis: A supportive tool for monogenoidean taxonomy.	C23

### 12:00 – 12:30 PRESENTATIONS AND DISCUSSION REGARDING ISM7

### 12:30 – 13:30 LUNCH

**SESSION 6 MONOGENEANS AND PARASITES IN AQUACULTURE**

- 13:30 – 14:00 MOONEY A., LACKENBY J. & WHITTINGTON I.D. Tales about Monogenea in cultured kingfish (*Seriola lalandi*) from South Australia. C24
- 14:00 – 14:30 DEVENEY M., WILLIAMS R.E. & WHITTINGTON I.D. Treating monogeneans in aquaculture: How do I treat you? Let me count the ways. I 3
- 14:30 – 14:45 SHINN A.P., WHITTINGTON I.D., CHRISTISON K.W. & BRON J.E. Man, monsters and machines: managing malicious monogenean miscreants. C25
- 14:45 – 15:00 BUCHMANN K. Monogenean-host interactions with relevance to aquaculture. C26
- 15:00 – 15:30 AFTERNOON TEA**
- 15:30 – 15:45 MONTERO F.E., REPULLÉS-ALBELDA A., PADROS F., SÁNCHEZ\_GARCÍA A., AGUSTÍ C. & RAGA A. Monogenoses in the Mediterranean aquaculture. An overview. C27
- 15:45 – 16:00 MOUTON A. Disease impacts on South African aquaculture. C28
- 16:00 – 16:15 CHRISTISON K.W., VAUGHAN D.B., JOUBERT C.J.H. & LOBO J. Marine Aquaculture and monogeneans in South Africa. C29
- 16:15 – 16:30 VAUGHAN D.B. & CHRISTISON K.W. Monogenea: lessons learned from public aquaria. C30
- 16:30 Buses depart for Bloemendal Restaurant from Sea Point**

**WEDNESDAY 5 AUGUST 2009 MID SYMPOSIUM TOUR****THURSDAY 6 AUGUST 2009****SESSION 7 SYSTEMATICS AND BIODIVERSITY**

- 09:00 – 09:30 BOEGER W.A. Understanding the diversification of viviparous Gyrodactylidae I 4
- 09:30 – 09:45 DOMINGUES, M.V., WHITTINGTON I.D. & CHISHOLM L.A. Phylogeny and coevolution of the Hexabothriidae Price, 1942: A new hypothesis twenty years after the Boeger & Kritsky proposal. C31
- 09:45 – 10:00 ŘEHULKOVÁ E., JUSTINE J.L. & GELNAR M. Endoparasitic dactylogyrids (Monogenea) from the fish digestive system: A new species from the oesophagus of *Hoplichthys citrinus* (Scorpaeniformes) off the Chesterfield Islands, New Caledonia. C32
- 10:00 – 10:15 HERNÁNDEZ ORTOS J. S., ALAMA-BERMEJO G., CRESPO E.A., RAGA J.A. & MONTERO F.E. Morphological and molecular revision of the species of *Neogrubea* Dillon & Hargis, 1968 (Oligonchoidea: Mazocraedidae). C33
- 10:15 – 10:30 DOMINGUES, M.V. Phylogeny and systematic of Monocotylidae Taschenberg, 1879. C34
- 10:30 – 11:00 MORNING TEA**
- 11:00 – 11:15 WHITTINGTON I.D. Dynamic nomenclature demands different procedures. C35
- 11:15 – 11:30 AZADIKHAH D., NEKUIEFARD A., MIRZAYI F., NASRABADI S.A. & JALALI JAFARI B. On the less known Ancyrocephalidae (Bychowsky, 1937) (Monogenea, Polyonchoinea) species in freshwater and Caspian Sea fishes of Iran. C36
- 11:30 – 11:45 TAVAKOL S., HALAJIAN A., JALALI B. & SHOAIBI OMRANI B. Survey on gill monogenean parasites of sturgeon fishes (Acipenseridae) in southern part of Caspian Sea. C37
- 11:45 – 12:00 TRIPATHI A., PANDEY K.C., AGRAWAL N. & TRIPATHI P. Monogenoidea on Indian Siluriform fishes. 1. A new species of *Bychowskyella* (Monogenoidea: Dactylogyridae) with redescription of *Bychowskyella asiatica* Jain, 1961 and *Bychowskyella kanpurensis* Agrawal, Shukla & Vishwakarma, 1996 from Northern C38

India.

- 12:00 – 12:15 MENDOZA-PALMERO C.A., SCHOLZ T. & KUCHTA R. Diversity of C39  
monogeneans of catfish (Siluriformes: Pimelodidae) from the Amazon River Basin.
- 12:15 – 12:30 DÁVIDOVÁ M., ONDRAČKOVA M. & PŘIKRYLOVÁ I. Monogenean parasites C40  
distribution in *Lepomis gibbosus* (Centrarchidae) introduced in Europe.
- 12:30 – 12:45 PORTES SANTOS C., MORAVEC F. & VENTURIERI R. *Dawestrema* C41  
*cycloancistrum* Price & Nowling, 1967 from the head pores of Arapaimas.
- 12:45 – 13:30 LUNCH**
- SESSION 8 GYRODACTYLIDS**
- 13:30 – 13:45 MORRIS D.J., TAYLOR N.G.H., TURNBULL J.F., BRON J.E. & SHINN A.P. Risk C42  
evaluation system for *Gyrodactylus salaris* establishment in English and Welsh river  
systems.
- 13:45 – 14:00 SALTE R., BENTSEN H.B., BAKKE T.A., MOEN T., TRIPATHY S., OMHOLT S., C43  
ØDEGÅRD J. & HANSEN L.P. Increased survival to *Gyrodactylus salaris* infections  
demonstrated by family selection in a Norwegian Atlantic Salmon (*Salmo salar*)  
population.
- 14:00 – 14:15 MATEJUSOVA I., COLLINS C., MARTIN S., DOUGLAS A., KANIA P.W. & C44  
BUCHMANN K. Differences in transcriptome profile between *G. salaris* susceptible  
and resistant strains of Atlantic Salmon (*Salmo salar* L.).
- 14:15 – 14:30 HAHN C., BAKKE T., WEISS S. & BACHMANN L. *Gyrodactylus thymalli* and *G.* C45  
*truttae* infecting grayling (*Thymallus thymallus*) and brown trout (*Salmo trutta*) in  
Austrian rivers.
- 14:30 – 14:45 BOEGER W.A., VIANNA R.T., PATELLA L. & BUENO DA SILVA M. Molecules C46  
and morphology disagree on the validity of Oogyrodactylidae.
- 14:45 – 15:00 GRANO-MALDONADO M.I., BRON J.E., IRVING S., LONGSHAW M. & SHINN C46  
A.P. The biological and behavioural basis of host selection in the transmission of  
*Gyrodactylus* (Monogenea).
- 15:00 – 15:30 AFTERNOON TEA**
- 15:30 – 15:45 BROOKER A.J., GRANO-MALDONADO M.I., IRVING S., BRON J.E., C47  
LONGSHAW M. & SHINN A.P. The effect of muscle agonists on the behaviour and  
transmission of *Gyrodactylus* Von Nordmann, 1832.
- 15:45 – 16:00 SHELKLE B., RICHARDS-HOBBS L., SNELLGROVE D. & CABLE J. Herbal C48  
treatments against gyrodactylids (Monogenea).
- 16:00 – 16:15 GARCÍA-VÁSQUEZ A., BRON J.E. & SHINN A.P. Development of a dedicated stain C49  
for the skeletal elements of *Gyrodactylus* and related genera.
- 16:15 – 17:30 **POSTER SESSION 2** P2  
Shuttles will start going back to hotels from 17:00
- FREE EVENING**

## FRIDAY 7 AUGUST 2009

### SESSION 9 MONOGENEAN DATABASING AND BIODIVERSITY

- 09:00 – 09:30 I6: SHINN A.P., PALADINI G., WHITTINGTON I.D., HARRIS P., LITTLEWOOD I 5  
T., BAKKE T., CABLE J., CHRISTISON K.W., DOMINGUES M.V., RUBIO-  
GODOY M., CONWAY D. & BRON J. MONODB: First steps in the provision of a  
centralised web-based resource for the Monogenea.

09:30 – 09:45	<u>TRIPATHI A.</u> , PANDEY K.C., DEVAK A. & AGRAWAL N. A parasite-host checklist for Monogenoidea Bychowsky, 1937 (Platyhelminthes) from India (1891-2007).	C50
09:45 – 10:00	<u>JALALI B.</u> & MIAR A. Metazoan parasites species composition and biodiversity of <i>Capoeta damascina</i> in Iran with reference of <i>Dactylogyrids</i> .	C51
10:00 – 10:15	<u>SHOAIBI OMRANI B.</u> , EBRAHIMZADEH M.H., JALALI B., MEHDIZADEH S. & TAVAKOL S. Report of <i>Heteronchocleidus</i> Bychowsky, 1956 (Monogenea: Dactylogyridae) in Dwarf Gourami ( <i>Colisa lalia</i> ) imported to Iran.	C52
10:15 – 10:30	TRIPATHI P., AGRAWAL N. & <u>PANDEY K.C.</u> A new species of <i>Heterochocleidus</i> Bychowsky, 1957 (Monogenoidea, Dactylogyridae) from <i>Colisa fasciata</i> Bloch & Schneider, 1801 (Perciformes, Osphronemidae) in India with a redescription of <i>H. Colisai</i> Chandra & Yasmin, 2003.	C53
<b>10:30 – 11:00</b>	<b>MORNING TEA</b>	
<b>SESSION 10</b>	<b>CONCEPTS IN MONOGENEAN BIOLOGY AND ECOLOGY</b>	
11:00 – 11:30	<u>LIM. S.</u> The amazing monogeneans.	<b>I6</b>
11:30 – 11:45	<u>STRONA G.</u> , <u>STEFANI F.</u> , <u>ACQUARO G.</u> & <u>GALLI P.</u> Host specificity in Monogenoidea: Does ecology matter?	<u>C54</u>
11:45 – 12:00	<u>GELNAR M.</u> , ŠIMKOVA A., JARKOVSKÝ J. & MORAND S. Can monogeneans be a good biological model?	C55
12:00 – 12:15	<u>BUCHMANN K.</u> , KANIA P.W., EVENSEN O. & LARSEN T.B. Burned land strategy: host responses against monopisthocotylean monogeneans explained in the cross-field between immunology and ecology.	C56
12:15 – 12:30	<u>GERASEV P.</u> , <u>DMITRIEVA E.</u> , PRON' KINA N. & PUGACHEV O. On different rates of monogenean speciation.	C57
<b>12:30 – 13:30</b>	<b>LUNCH</b>	
13:30 – 13:45	<u>VIGNON M.</u> & SASAL P. The use of G.I.S. in analysing gill microhabitat: another look of monogeneans aggregation and coexistence.	<u>C58</u>
13:45 – 14:00	<u>PARISELLE A.</u> , DIAMANKA A. Information on <i>Sarotheradon melanotheron</i> (Cichlidae) provided by monogenean parasites.	C59
14:00 – 14:15	<u>PALADINI G.</u> , GARCÍA-VÁSQUEZ A. & SHINN A.P. <i>Tilapia</i> – The “Aquatic chicken” and its monogenean parasites: food for thought.	<u>C60</u>
14:15 – 14:30	<u>KOŠKOVÁ E.</u> , ŠPAKULOVA M. & KOUBKOVÁ B. Cytogenetics of diplozoid monogeneans parasitizing fish genus <i>Abramis</i> .	<u>C61</u>
14:30 – 14:45	LUO Y., CAO J. & <u>YANG T.</u> Seasonal dynamics of <i>Diplectanum grouper</i> on wild versus cultured groupers, <i>Epinephelus</i> spp. With an investigation of their linkage to the phylogeny of the hosts.	C62
14:45 – 15:15	<b>Closing</b>	
15:30	Buses will depart for Wellington for Conference Dinner and Awards.	

## POSTERS

Poster size should not exceed A0 size (1.2m high x 0.8m wide). On the program we have allocated two poster sessions during which you should attend your poster to answer questions. Posters will be on display for the duration of the symposium.

### LIST OF POSTER PRESENTATIONS

1. AKOLL P., SCHEIMER F., FIORAVANTI M.L., PALADINI G., SHINN A.P., KONECNY R. & RUTAISIRE J. *Cichlidogyrus* Paperna, 1960 fauna of Nile Tilapia (*Oreochromis niloticus* L.) from Lake Kyoga and Lake Victoria, Uganda. **Student presentation**
2. BADETS M., GALINIER R., MITTA G. & VERNEAU O. Characterisation of the HOX gene complement from the Polystomatidae (Monogenea, Polystomatidae) and expression patterns of ABD-A/LOX4 in *Polystoma gallieni*, Parasite of the stripeless tree frog *Hyla meridionaleis*: involvement in development and reproduction. **Student presentation**
3. BROOKER A.J. & SHINN, A.P. Potential for using fractal dimension analysis for the identification of *Gyrodactylus* spp. From their marginal hooks.
4. CARRERAS M., CARRASSÓN M., BULLARD S.A., PÉREZ-DEL OLMO A. & MONTERO F.E. *Cyclocotyla bellones*: hyperparasite or epibiont?
5. COHEN S.C. & KOHN A. A new *Anacanthorus* (Dactylogyridae) from the “Dourado” a Brazilian Characin.
6. COHEN S.C., FERNANDES B.M.M., CÁRDENAS M.Q. & KOHN A. On a new species of *Choricotyle* (Monogenea, Dicliphoridae) parasite of a marine fish from the littoral of the state of Rio De Janeiro, Brazil.
7. CRAFFORD D., LUUS-POWELL W.J. & AVENANT-OLDEWAGE A. Ecological aspects of some monogenean parasites from fish in the Vaal River System, South Africa – Preliminary surveys. **Student presentation**
8. DÁVIDOVÁ M., ONDRAČKOVÁ M. & GELNAR M. Differences in species diversity and composition of monogenean parasite assemblages of the European bitterling along its distribution area.
9. DOMINGUES M.V. & MARQUES F.P.L. Phylogeny and taxonomy of *Potamotrygonocotyle* Mayes, Brooks & Thorson, 1981 (Monogenoidea: Monocotylidae) with description of four new species.
10. DOMINGUES M.V., CHISHOLM L.A. & WHITTINGTON I.D. New species of Hexabothriidae Price, 1942 from Australia, Indonesia, Malaysia and New Zealand with a proposal of a new genus.
11. DOMINGUES M.V., WHITTINGTON I.D. & CHISHOLM L.A. The Hexabothriidae database: a time for integration.
12. DZIKA E. Monogenea fauna on Polish Vertebrate. **Student presentation**
13. FREEMAN, M.A., OGAWA K., CHRISTISON K.W., VAUGHAN D.B. & SHINN A.P. *Udonella* Johnston, 1835: A hitchhikers guide.
14. GERASEV P. & DMITRIEVA E. Monogeneans of the Azov and Black seas: composition, origin and peculiarities of ecology.
15. GHAZIFARD A. Monogenean Parasites from dominant fish of Sefidroud River. **Student presentation**
16. GRANO-MALDONADO M.I., SHINN A.P., IRVING S., LONGSHAW M. & BRON J.E. *Gyrodactylus* – A difficult meal to swallow.
17. GRANO-MALDONADO M.I., SHINN A.P., IRVING S., LONGSHAW M. & BRON J.E. Lipid reserves in *Gyrodactylus* spp. Migrating from their 3-spine stickleback (*Gasterosteus aculeatus*) hosts.
18. HERNÁNDEZ ORTOS J. S., AHUIR-BARAJA A.E., GARCÍA N.A., CRESPO E.A. RAGA J.A. & MONTERO F.E. New geographical records of *Capsala martinieri* (Capsalidae) from the Argentinian Patagonia and the Spanish Mediterranean: Puerto Madryn’s wins the first prize at the pumpkin fair. **Student presentation**

19. KOUBKOVÁ B., MATĚJUSOVÁ I., KOŠKOVÁ E. & JALALI B. New species of diplozoid parasite described from Iranian *Rutilus frisii kutum*.
20. KRITSKY D.C., AQUARO G. & GALLI P. New genus and new species of Dactylogyridae from *Gerres longirostris* (Lacepède, 1801) (Perchiformes: Gerreidae) of the Red Sea, Egypt.
21. LEDWABA P., THERON J., LUUS-POWELL W.J. & MATLA M.M. Monogeneans recorded from characins collected from the Limpopo and Komati River drainage systems, South Africa. **Student presentation**
22. LUUS-POWELL W.J., MATLA M., MADANIRE G., MBOKANE E. & SMIT W. *Gyrodactylus* species found on freshwater fishes from two river systems, South Africa.
23. MADANIRE G., MATLA M., OLIVIER P. & LUUS-POWELL W.J. The occurrence of five species of the genus *Cichlidogyrus* Paperna, 1960 (Monogenea: Ancyrocephalinae) from the Limpopo River system, South Africa. **Student presentation**
24. MARCOTEGUI P. & MARTORELLI S. Monogenea from estuarine environment from Buenos Aires, Argentina. **Student presentation**
25. MASENG M.R., CHRISTISON K.W. & GRIFFITHS C. Risk analysis of potential transmission and implications of the exotic *Gyrodactylus* spp. On cultured and wild cyprinids in the Western Cape, South Africa.
26. MBOKANE E.M., THERON J., LUUS-POWELL W.J. & MATLA M.M. Seasonal occurrence of *Neodiplozoon polycotyleus* Paperna, 1973 from selected cyprinid species of the Nwanedi-Luphephe Dams in the Limpopo Province, South Africa. **Student presentation**
27. MINARDI D., PALADINI G., PREARO M., FREEMAN M.A. & SHINN A.P. Morphological and molecular characterisation of *Gussevia asota* Kritsky, Thatcher & Boeger, 1989: New notes on an old friend. **Student presentation**
28. MORRISON C., DU PREEZ L.H. & WELDON C. Chelonian polystomes: fascinating and diverse.
29. MUSILOVÁ N., ŘEHULKOVÁ E. & GELNAR M. New and previously described species of *Dactylogyrus* and *Dogielius* (Dactylogyridae) from the gills of three *Labeo* species (Cyprinidae) in Senegal.
30. NAZARI CHAMAK F., PAZOOKI J., MASOUMIAN M. & EBRAHIMI M. New and known species of *Dactylogyrus* Diesing, 1850 (Monogenea: Dactylogyridae) from Halil River, Iran.
31. PALADINI G., HANSEN H., FIORAVANTI M.L. & SHINN A.P. The potential impact of monogeneans on Italian fish stocks. **Student presentation**
32. PŘIKRYLOVÁ I., MATĚJUSOVA I., MUSILOVÁ N., GELNAR M. & HARRIS P.D. *Diplogyrodactylus martini* n.g. et sp. (Monogenea: Gyrodactylidae), a new gyrodactylid on Gray Bichir, *Polypterus senegalus* (polypteridae) from Senegal (West Africa).
33. ŘEHULKOVÁ E., JUSTINE J.L. & GELNAR M. Five new monogenean species from the gills of *Mulloidichthys vanicolensis* (Perciformes: Mullidae) off new Caledonia, with the proposal of *Volsellituba* n. gen. and *Pennulituba* n. gen. (Monogenea: Dactylogyridae).
34. REPULLÉS-ALBELDA A., BRON J.E., SHINN A.P., RAGA J.A. & MONTERO F.E. Changes in haptor morphology and attachment during the development of two polyopisthocotyleans: *Zeuxapta seriolae* and *Sparicotyle chrysophrii*.
35. SHELKLE B., VAN OOSTERHOUT C., SNELGROVE D. & CABLE J. Fish Doc: Effect of extreme environmental conditions and parasite treatments on gyrodactylids. **Student presentation**
36. SHARMA P., AGRAWAL N., ABIDI R. & KUMAR S. Role of ribosomal DNA in the taxonomy of monogenean parasites: a case study from exotic Indian freshwater fishes. **Student presentation**
37. SOYLU E. Monogenean parasites of white bream *Blicca bjoerkna*, (L, 1758) in Lake Sapanca, Turkey.
38. STRONA G., STEFANI F., ACQUARO G. & GALLI P. Monogenoidean parasites from Italian marine fish: Economical implications & the host shift-menace, with an updated checklist. **Student presentation**

39. TAJBAKHSH GOORABZARMAKHI F., PAZOOKI J., MASOUMIAN M., DAGHIGH ROUHI J. A study on monogenean parasites of *Blicca bjoerkna* in Anzali Wetland, Iran.
40. TAZEROUTI F., NEIFAR L. & EUZET L. Description of *Monocotyle myliobatis* (Monogenea, Monocotylidae) rediscovered from the type host *Myliobatis Aquila* (Elasmobranchii, Myliobatidae) on Algerian Coasts.
41. VAUGHAN D.B. & CHISHOLM L.A. *Dendromonocotyle* in public aquaria. **Student presentation**