

Rotifera XII Berlin 16 - 21 August 2009

Sunday 16

August

- 09:00-17:00 **Presymposium Workshop on Taxonomy in IGB**
13:00-16:00 **HUB Registration**
16:00 **Bus Transfer to IGB**
17:00-20:00 **Get Together in IGB**
20:00 **Shuttle back to City**

Monday 17

August

- 09:00-10:00 **Opening Session with Guest Lecture**
Klement Tockner, IGB
Jens Krause, IGB
Welcome and Introduction into the Research of the IGB
Collective behaviour and swarm intelligence
- 10:00-10:40 **Coffee break**
- Special Session: Molecular Mechanisms of Rotifer Reproduction I**
Chair: Terry Snell
- 10:40-11:20 Terry W. Snell
Key note lecture
Molecular mechanisms regulating monogonont rotifer reproduction
- 11:20-11:40 Kristin Gribble, Bette Hecox-Lea, Terry Snell, David Mark Welch
Diversity of the mate recognition protein gene in the *Brachionus plicatilis* species complex
- 11:40-12:00 Elizabeth P. Stout, Terry W. Snell, James J. LaClair, Julia Kubanek
Progesterone is a regulator of reproduction in *Brachionus manjavacas* (Rotifera)
- 12:00-12:20 Hilary A. Smith, Terry W. Snell and Manuel Serra
Molecular evolution of the membrane associated progesterone receptor within the *Brachionus plicatilis* (Rotifera) cryptic species complex
- 12:20-12:40 Atsushi Hagiwara, K. Suga, N. Oshiyama, Y. Sakakura
Isolation of mixis related genes from the rotifer *Brachionus plicatilis* using subtractive hybridization method
- 12:40-13:00 Celia Joaquim-Justo, V. Cruciani, J.P. Thomé
Impact of androgens and different types of anti-androgens on the sexual reproduction *Brachionus calyciflorus*
- 13:00-14:40 **Lunch**
- Special Session: Molecular Mechanisms of Rotifer Reproduction**
Chair: Kristin Gribble
- 14:40-15:00 Anupriya Dutta, K. Peterson, Erik Sperling, D. Mark Welch
Investigating the role of microRNAs in bdelloid Rotifers
- 15:00-15:20 David Mark Welch
The evolutionary significance of desiccation-induced phenomena in bdelloid reproduction
- 15:20-15:40 Andrew M. Schurko, David B. Mark Welch, Emily K. Petruccielli, Sara J. Hanson, John M. Logsdon, Jr.
Abstinence only? Searching for evidence of sexual reproduction in bdelloid rotifers using a meiosis detection toolkit
- 15:40-16:00 Ana Y. Signorovitch, J. Hur, M. Meselson
Homologous genetic transfer in rotifers of class Bdelloidea
- 16:00-16:40 **Coffee Break**
- Rotifer Genetics**
Chair: Atsushi Hagiwara
- 16:40-17:00 Claus-Peter Stelzer
Estimates of genome size in rotifers using the flow cytometry method
- 17:00-17:20 N. Y. Denekamp, M.A.S. Thorne, M. S. Clark, M. Kube, R. Reinhardt, Esther Lubzens
Transcripts associated with dormancy or diapause in resting eggs of the monogonont rotifer *Brachionus plicatilis*.
- 17:20-17:40 I.-Y. Choi, B.-S. Choi, K.-W. Lee, J.-S. Lee
Molecular insight of genomic DNA sequences (304 Mb) from the brackish rotifer, *Brachionus rotundiformis*
- 17:40-18:00 Alexander Witek, Holger Herlyn, Alexandra Wey, David B. Mark Welch, Thomas Hankeln
Phylogenomics of Spiralia: Syndermata, Gnathifera, Platyzoa
- 18:10-18:20 N. Walz
A stroll through Berlin

**Tuesday 18
August**

Special Session: Rotifers in Extreme Habitats

Chair: Guntram Weithoff

- 09:00-09:40 Guntram Weithoff Rotifers in extreme habitats
Key note lecture
- 09:40-10:00 Helen S. Marcial, F. Leasi, C. Ricci Sensitivity of early life stages of the bdelloid rotifer *Macrotrachela quadricornifera* to UV irradiation
- 10:00-10:20 Claudia Ricci, F. Leasi Rotarad: rotifers in a space experiment
- 10:20-10:40 Irena V. Telesh Diversity of rotifers in extreme habitats of Baltic estuarine ecosystems
- 10:40-11:00 Jae-Sung Rhee, K.-W. Lee, D.-S. Hwang, J. Han, I.-Y. Choi, B.-S. Choi, J.-S. Lee Heat shock protein (Hsp) gene responses of the brackish rotifer, *Brachionus rotundiformis*
- 11:00-11:30 **Coffee Break**
- 11:30-12:50 **Poster Session**
- 12:50-14:20 **Lunch**

Ecology I

Chair: Maria Gonzáles

- 14:20-14:40
- 14:40-15:00 Heejin Kim, Atsushi Hagiwara Aging and viability of resting eggs in the rotifer *Brachionus plicatilis* Müller
- 15:00-15:20 Jorge Ciroso-Pérez, A. Lara-Bernal, E. Ortega-Mayagoitia, N. Dimas-Flores, M. Sánchez-Martínez Is dormancy in rotifers the most successful strategy to avoid adverse conditions in deep tropical lakes?
- 15:20-15:40 Venetia Kostopoulou, Helen Miliou, George Verriopoulos A synthesis on the study of population dynamics of the rotifer *Brachionus* 'Nevada', belonging to the *B. plicatilis* complex
- 15:40-16:00 Mealnie Hartwich, A. Wacker, G. Weithoff The nutrition mode of the osmo-mixotrophic flagellate *Chlamydomonas acidophila* affects competition between rotifers
- 16:00-16:20 Ulrike Obertegger, Hilary Smith, Giovanna Flaim, Bob Wallace Using the guild ratio to characterize pelagic rotifer communities
- 16:20-17:00 **Coffee Break**
- 17:00-18:20 **Workshop**
Rainer Deneke Rotifer Metrics in Ecological Water Quality Monitoring

Wednesday

19 August

- 08:30-17:30 **Excursion to Potsdam**

**Thursday 20
August**

Special Session: Evolution of Rotifers I

Chair: Gregor Fussmann

- 09:00-09:40 Gregor F. Fussmann Key note lecture Rotifers: superb objects for the study of macro- and microevolutionary change
- 09:40-10:00 Laura S. Epp, Kathleen R. Stoof, Martin H. Trauth, Ralph Tiedemann Historical genetics of *Brachionus* populations in lakes of the East African Rift Valley
- 10:00-10:20 Spiros Papakostas, E. Michaloudi, A. Triantafyllidis, I. Kappas, T. J. Abatzopoulos The *Brachionus* rotifers of Lake Koronia, Greece: a year's story
- 10:20-10:40 Ana M. Tortajada, M. J. Carmona and M. Serra Effects of within-species population hybridization on rotifer fitness
- 10:40-11:00 Eduardo M. García-Roger, N. Dias, M. J. Carmona, M. Serra Crossed induction of sex among co-generic *Brachionus* populations
- 11:00-11:30 **Coffee Break**

Special Session: Evolution of Rotifers II

Chair: Gregor Fussmann

- 11:30-11:50 Karine Van Doninck, Jae H. Hur, Morgan L. Mandigo, Matthew Meselson Phylogenomics of unusual histone H2A variants and degenerate tetraploidy in bdelloid rotifers.
- 11:50-12:10 Christopher G. Wilson, P. W. Sherman Anciently asexual bdelloid rotifers escape parasites by drying up and blowing away

Biogeography I

Chair: Alois Herzig

- 12:10-12:30 Xavier Armengol, M. Antón-Pardo Patterns of rotifer species richness in shallow peridunal ponds in relation with some biotic and abiotic factors.
- 12:30-12:50 Jim Green Geographical variation in rotifers associated with *Microcystis* blooms
- 12:50-13:10 Esmat Khaleqsefat, Sh. Pashaei Rad, R. Malekzadeh Viayeh Biodiversity of planktonic rotifers in natural lagoons and artificial reservoirs in north- west Iran
- 13:10-13:30 Miloslav Devetter Soil rotifers during primary succession on brown-coal post mining dumps

13:30-15:00 Lunch

Biogeography II

Chair: Maria R. Miracle

- 15:00-15:20 Javier Montero-Pau, A. Gómez, M. Serra, E. Ramos-Rodríguez Ecological specialisation and long-term coexistence in two cryptic rotifer species
- 15:20-15:40 Alois Herzig *Filinia terminalis* and *Filinia longiseta*: long term population development in Neusiedler See, a shallow lake in Central Europe
- 15:40-16:00 Moshe Gophen Population dynamics of *Keratella cochlearis* in Lake Kinneret (Israel): Long term perspectives
- 16:00-16:40 **Coffee Break**

Environmental Indicators

Chair: S. Nandini

- 16:40-17:00 Rainer Deneke Comparison of rotifer metrics in ecological water quality monitoring – a review
- 17:00-17:20 Jolanta Ejsmont-Karabin Susceptibility of Rotifera to environmental trophic signals and its usefulness for indicative purposes
- 17:20-17:40 Natalia Kuczynska-Kippen Environmental predictors of rotifer community structure in two types of small water bodies
- 17:40-18:00 Gerardo García-García, S. Nandini, S. S. S. Sarma, F. Martínez-Jerónimo, J. Jiménez-Contreras Rotifer diversity in relation to heavy metal concentrations in Chimaliapan Wetland (State of Mexico, Mexico)

Friday 21
August

Special Session: Taxonomy and Morphology of Rotifers

Chair: Hendrik Segers

- 09:00-09:40 Hendrik Segers, Christian D. Jersabek Rotifera in the global biodiversity information world
Key note lecture
- 09:40-10:00 Christian D. Jersabek, Willem H. de Smet, Diego Towards a list of available names in zoology, partim Phylum Rotifera
Fontaneto, Russel J. Shiel, Hendrik Segers
- 10:00-10:20 Ekaterina P. Tereza, I. V. Arov, G. I. Pomazkova, M. Morphological variability of *Notholca gaudis* Voronk from Lake Baikal
A. Kiseleva, N. G. Melnik, O. A. Timoshkin (Est Siberia)
- 10:20-10:40 Evangelista Michaloudi, S. Papakostas, A. Morphologic and genetic 'decryption' of *Brachionus* sp. 'Austria'
Triantafyllidis, I. Kappas, K. Vasileiadou, K. Proios, S. Kappas
Mills, T. J. Abatzopoulos
- 10:40-11:00 Miriam E. Reyna-Fabian, J. P. Laclette, M. P. Molecular phylogeny of some species of the genus *Brachionus* and
Cummings, M. García-Varela the systematic position of *Platyonus* based on nuclear and
mitochondrial gene sequences
- 11:00-11:20 Giulio Melone, D. Fontaneto The epidermis surface in rotifers: an SEM comparison
- 11:20-12:00 **Coffee Break**
- Ecology II**
Chair: John Gilbert
- 12:00-12:20 Taavi Virro, J. Salujõe, H. Agasild Diversity and structure of midsummer planktonic rotifer assemblages
in nine macrophyte- and phytoplankton-dominated shallow lakes
- 12:20-12:40 Tatsuki Yoshinaga Harmful and beneficial effects of oxidation on the ageing of the rotifer
- 12:40-13:00 M. J. Horgan, M. Burkholder, Maria J. González Compensation for grazing function by small zooplankton in productive
lakes with contrasting zooplankton assemblages
- 13:00-13:20 Michael J. Vanni, M. J. Gonzalez, L. M. Domine Contribution of rotifers to nutrient cycling in a productive reservoir
- 13:20-14:40 **Lunch**
- Ecology III**
Chair: Michael Vanni
- 14:40-15:00 M.C. Dieguez, John J. Gilbert *Daphnia*-rotifer interactions in Patagonian communities
- 15:00-15:20 Maria R. Miracle, T. Alfonso, E. Vicente On the dominance of rotifers in shallow lakes with dense Chara beds
and planktivorous fish: A mesocosm experiment
- 15:20-15:40 S. Nandini, S. S. S. Sarma, H. J. Dumont Effect of a predatory turbellarian (*Stenostomum* sp.) on the population
of selected rotifer prey
- 15:40-16:00 S. S. S. Sarma, Rafael Alejandro Lara Resendiz, S. Morphometric and demographic responses of brachionid prey
Nandini (*Brachionus calyciflorus* and *B. macracanthus*) in the presence of
different densities of the predator *Asplanchna brightwellii* (Rotifera:
Asplanchnidae)
- 16:00-16:20 **Coffee Break**
- 16:20-17:00 **Concluding Session**
- 18:00-19:00 **Guided Tour through the Magazines of the Natural History Museum** Notice: If you want to attend this guide you should announce it by the
QUESTIONNAIRE until 24 July, 2009.
- 19:00-23:00 **Conference Dinner in Natural History Museum** You can visit large parts of the Museum after the dinner