

# 10<sup>th</sup> Symposium on Cladocera

Programme preview

Last update: Sunday, September 21

		<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
morning	9 - 10	opening, talks 4	keynote 1	talks 5	keynote 2	sleep
	10 - 10:30	talks 4	talks 2		talks 2	talks 3
	10:30 - 11	coffee break	coffee break	coffee break	coffee break	coffee break (15' later)
	11 - 12:30	talks 5	talks 5	talks 5	talks 5	talks 4
afternoon	12:30 - 14	lunch	lunch	snack lunch & excursions	lunch	lunch
	14 - 15:30	talks 5	talks 5		poster talks	talks 4
	15:30 - 16	coffee break	coffee break		poster session 2 (coffee)	closing & coffee
	16 - 17:30	poster talks	talks 5			
evening	18 +	poster session 1 (& tastes of diversity)	dinner, castle	dinner folk music & wine	gala dinner	optional: Wine salon

	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
09:00	<b>Opening mix</b> conference opening W. Gary Sprules Piotr Bernatowicz Katie Sirianni (S) Xavier Karreman (S)	<b>KEYNOTE 1</b> Luc De Meester  <b>Aging and longevity</b> Christoph Haag Julia Mier-Jędrzejowicz (S)	<b>Systematics and diveristy</b> Alexey A. Kotov Ekaterina V. Popova (S) Henri Dumont Martin Černý Olga Boikova	<b>KEYNOTE 2</b> Michael Lynch  <b>Evolution</b> Piet Spaak Lei Xu	<b>10:00 Friday mix</b> S.S.S. Sarma Carolyn W. Burns Nikolai Korovchinsky
10:30	<b>coffee</b>	<b>coffee</b>	<b>coffee</b>	<b>coffee</b>	<b>10:45 coffee</b>
11:00	<b>Predators and defenses</b> Howard Riessen Max Rabus (S) Kathrin Otte (S) Eriv von Elert Barbara Pietrzak	<b>Communities and diversity</b> Ioana Enache (S) Jessie Engelen (S) Petr Jan Juračka (S) Sven Teurlincx (S) Maciej Karpowicz (S)	<b>Daphnia nightmares</b> Liron Goren (S) Patrick Turko (S) Andrzej Mikulski Jaromir Seda Tatiana S. Lopatina	<b>Evolution (continued)</b> Mathilde Cordellier Anne Thielsch Johanna Griebel (S) T. H. Haileselasie (S) Alexey A. Kotov	<b>11:15 Friday mix (continued)</b> Christian Laforsch Leonard V. Polishchuk Jiří Macháček Artem Y. Sinev
12:30	<b>lunch</b>	<b>lunch</b>	<b>lunch &amp; excursion</b>	<b>lunch</b>	<b>lunch</b>
14:00	<b>Food and feeding</b> Anja Wenzel Anna Sikora (S) Fernando Martínez-Jerónimo Marcin Wojewodzic Radka Ptáčníková	<b>Water fleas vs. Cyanobacteria</b> Sarma Nandini Kai Lyu (S) Anna Bednarska Marcin Krzysztof Dziuba (S) Lukasz Wejnerowski (S)		<b>Poster talks II.</b>	<b>Last but not least</b> Slawek Cerbin Franja Pajk Veronika Sacherová conference closing
15:30	<b>coffee</b>	<b>coffee</b>		<b>coffee</b>	<b>coffee</b>
16:00	<b>Poster talks I.</b>	<b>Afternoon varia</b> Natalia Kuczyńska-Kippen Carlos Iglesias Andros Gianuca (S) Adam Petrusek Bjørn Walseng			

day & time    session & presenting author    talk title  
(S) = student speakers

## Monday

09:00                    **Opening mix**                    *conference opening*  
09:15 W. Gary Sprules                    Are body size-based theories of food webs a heresy in cladocerozoology?  
09:30 Piotr Bernatowicz                    Does molecular clock regulate circadian locomotory activity of *Daphnia pulex* ?  
09:45 *Katie Sirianni (S)*                    Population dynamics in a rock-pool metacommunity  
10:00 *Xavier Karreman (S)*                    Using a virtual pond to study the adaptive value and ecological consequences of diel vertical migration of zooplankton

### **Predators and defenses**

11:00 Howard Riessen                    Influence of Water Temperature on the Adaptive Landscape of Induced Defenses in *Daphnia*  
11:15 *Max Rabus (S)*                    Uncovering hidden morphological defences in *Daphnia magna* – An interdisciplinary approach to assess the predator induced fortification of the carapace  
11:30 *Kathrin Otte (S)*                    Proteomic analysis reveals candidate proteins and signal pathways involved in predator-induced plastic defensive response of *Daphnia magna*  
11:45 Eric von Elert                    Light intensity controls anti-predator defences in *Daphnia*  
12:00 Barbara Pietrzak                    The effect of temperature and fish kairomone on escape ability in *Daphnia*

### **Food and feeding**

14:00 Anja Wenzel                    *Daphnia* performance along food quantity gradients of algae mixed with bacteria or allochthonous organic particles  
14:15 *Anna Sikora (S)*                    Are polyunsaturated fatty acid demands of *Daphnia* body-size dependent?  
14:30 Fernando Martínez-Jerónimo                    Growth and reproduction of *Daphnia curvirostris* fed with autotrophic and heterotrophic algae (*Scenedesmus incrassatulus*)  
14:45 Marcin Wojewodzc                    Seeking for Transgenerational Effects (Maternal Effects vs Epigenetics) of Diet Quality in Clones –Ecophysiological and RNA-seq approaches  
15:00 Radka Ptáčníková                    Predation of *Bythotrephes longimanus* : experimental results of selectivity and consumption

## Tuesday

09:00 **Luc De Meester**                    **Eco-evolutionary dynamics featuring *Daphnia* and cladoceran zooplankton**

### **Aging and longevity**

10:00 Christoph Haag                    Contrasting patterns of life history evolution and ageing between small and large populations of *Daphnia magna*  
10:15 *Julia Mier-Jędrzejowicz (S)*                    The effect of temperature on the longevity of female and male *Daphnia magna*

### **Communities and diversity**

11:00 *Ioana Enache (S)*                    Diversity and distribution of *Daphnia* species across the Danube Delta lakes  
11:15 *Jessie Engelen (S)*                    Metropole Flanders: spatial and environmental determinants in cladoceran community composition along an urbanization gradient in Flanders  
11:30 *Petr Jan Juračka (S)*                    Naturally heterogeneous landscape can effectively slow down dispersal of aquatic microcrustaceans (cladocerans included)  
11:45 *Sven Teurlincx (S)*                    Connectivity as a driving force behind regional community structure of cladocera metacommunities in highly connected linear water bodies in the Netherlands  
12:00 *Maciej Karpowicz (S)*                    Biodiversity of crustacean zooplankton in lowland river ecosystem: the influence of dam reservoir on the spatial diversity patterns of local communities

**Tuesday****Water fleas vs. Cyanobacteria**

14:00 Sarma Nandini

A review on the effect of cyanobacterial extracts on cladoceran demography with data on *Moina micrura* and *Diaphanosoma mongolianum* from L'Albufera Lake, Spain

14:15 Kai Lyu (S)

Exposure to non-toxic *Microcystis* promotes *Daphnia* rapid adaptation to toxic *Microcystis*

14:30 Anna Bednarska

Joint effect of temperature and presence of filamentous cyanobacteria on reproductive related traits of *Daphnia magna*

14:45 Marcin Krzysztof Dziuba (S)

To be smaller or not to be? A possibility for adaptation of *Daphnia* to filamentous cyanobacteria in the face of global warming.

15:00 Lukasz Wejnerowski (S)

Morphological changes of filtering appendages and life history shifts of *Daphnia magna* in the presence of cyanobacteria with varying thicknesses of filaments

**Afternoon varia**

16:00 Natalia Kuczyńska-Kippen

Habitat requirements of crustaceans in pastoral small water bodies: the effect of overshading and human impact

16:15 Carlos Iglesias

High frequency sampling reveals unexpectedly high cladoceran diversity after fish structure change in a subtropical lake

16:30 Andros Gianuca (S)

Disentangling the role of body size and evolutionary history on cladoceran grazing rates

16:45 Adam Petrusek

Water flea under the hoofs: escape reactions of puddle *Daphnia* in response to mechanical disturbance

17:00 Bjørn Walseng

Child labour results in new records and common names for microcrustaceans

**Wednesday****Systematics and diversity**

09:00 Alexey A. Kotov

Recent state of taxonomy of the genus *Daphnia* O. F. Müller, 1785 (Anomopoda, Cladocera): a critical review

09:15 Ekaterina V. Popova (S)

A systematic revision of the *Daphnia* (*Ctenodaphnia*) *similis* group (Crustacea: Cladocera) of the Holarctic.

09:30 Henri Dumont

Morphology, Phylogeny, and Biogeography of *Diaphanosoma* (Branchiopoda: Ctenopoda)

09:45 Martin Černý

Diversity of the European *Daphnia obtusa* complex

10:00 Olga Boikova

The origin of Cladocera: a new approach to old problem

***Daphnia* nightmares**

11:00 Liron Goren (S)

Long term evidence for Red Queen dynamics in a co-evolving *Daphnia*-parasite system

11:15 Patrick Turko (S)

Is total castration optimal? Empirical evidence from a crustacean-bacterium host-parasite system

11:30 Andrzej Mikulski

Maternal effect in salinity tolerance of *Daphnia*

11:45 Jaromir Seda

*Daphnia* survival in extreme flood events

12:00 Tatiana S. Lopatina

The extraction and primary identification of infochemicals inducing the production of resting eggs by females of *Moina macrocopa*

**Thursday**

09:00 Michael Lynch

**The 5000 *Daphnia pulex* Genomes Project****Evolution**

10:00 Piet Spaak

A human-facilitated invasion reconstructed from the sediment egg bank using genetic markers.

10:15 Lei Xu

The legacy of long distance dispersal: population genetics of *Daphnia galeata* in China

11:00 Mathilde Cordellier

Coming of age: *Daphnia galeata* entering the transcriptomics era

11:15 Anne Thielsch

Evolutionary history and current environmental changes explain contrasting population genetic structures in European *Daphnia* species

11:30 Johanna Griebel (S)

Why a *Daphnia* hybrid outcompeted its parental species? A story about a “super clone”.

11:45 Tsegazeabe Hadush Haileselesie (S)

Spatial population genetic structure of the water flea *Daphnia* along an age-gradient of novel habitats created by ice retreat in Greenland

12:00 Alexey A. Kotov

Pleistocene-earlier Holocene ephippia of the Cladocera associated with corps of large mammals from the permafrost

**Friday****Friday mix (Last but not least)**

10:00 S.S.S. Sarma

Ecological and ecotoxicological investigation on Cladocera in Mexico

10:15 Carolyn W. Burns

Predictors of invasion success by *Daphnia* species: influence of food, temperature and species identity

10:30 Nikolai Korovchinsky

The current state and problems of the Cladoceran systematics

11:15 Christian Laforsch

Distinct but neglected: The gravireceptive organ in *Daphnia*

11:30 Leonard V. Polishchuk

Estimating the relative contribution of top-down vs. bottom-up effects to cladoceran birth rate: a test in the field

11:45 Jiří Macháček

Why are overwintering daphnids small: physiological basis of a peculiar phenomenon

12:00 Artem Y. Sinev

Cladocera of Hainan Island, China

14:00 Slawek Cerbin

Invasive macrophytes and predation during global warming... Can *Daphnia* ‘make any sense’ out of it?

14:15 Franja Pajk

High temperature adaptation and intraspecific variation in thermal reaction norms of life-history parameters in a subtropical cladoceran *Ceriodaphnia cornuta*

14:30 Veronika Sacherová

Stoichiometrical constraints of *Daphnia* population recovery in post-acidified mountain lakes

14:45

conference closing

POSTER PRESENTATIONS

no.	session	presenting author	poster title
<i>(S) = student posters</i>			
1	Mo	Cristian Alberto Espinosa-Rodríguez (S)	Competitive interactions between <i>Daphnia cf. mendotae</i> and littoral cladocerans in presence of exudates from the macrophyte <i>Egeria densa</i>
2	Th	Elena Fefilova	Planktonic cladocerans in a deep, low productive boreal lake (Lake Pääjärvi): annual variability relative to the thermal conditions, water colour and phytoplankton
3	Mo	Laura Jiménez (S)	Cladocera response to climate change in five high mountain lakes from Sierra Nevada over the last 150 years
4	Th	Paloma Marinho Lopes	Does phylogenetic niche conservatism result in a gradient of competitive interaction strength in <i>Daphnia</i> ?
5	Mo	Bernard Wolfschoon Ribeiro (S)	Comparison of gravisensing organs in different planktonic organisms – from evolution to life support systems
6	Th	Ligia Rivera-De la Parra (S)	Defense strategies of littoral and pelagic cladocerans (Cladocera) against <i>Hydra</i> sp. (Cnidaria; Hydrozoa) predation
7	Mo	Jaromir Seda	Vertical and horizontal diurnal migration of zooplankton: examination of factors influencing observed patterns
8	Th	Ravichandran Ramanibai	Epibiont infestation on cladocerans from urban lakes
9	Mo	Ann Kristin Schartau	Assessment of ecological status using freshwater cladocerans: Towards a type-specific reference conditions
10	Th	Małgorzata Wiśniewska (S)	Is commensal relationship common in small water bodies: <i>Brachionus rubens</i> and <i>Daphnia</i> spp.?
11	Mo	Zorka Dulić	Food or history: What is the prevailing effect on cladoceran communities in neighboring aquaculture ponds?
12	Th	Maike Herrmann (S)	Natural (?) selection and local adaptation in <i>Daphnia</i>
13	Mo	Vladimir K. Tchougounov	Eco-Evo-Devo adventures of cladocerans and other pancrustaceans
14	Th	Mirosław Ślusarczyk	The mystery of synchronisation of sexual reproduction in <i>Daphnia</i>
15	Mo	Kęstutis Arbačiauskas	Evidences of genetic regulation of seasonal polyphenism in <i>Daphnia</i>
16	Th	Isabel Vanoverberghe	Population history with respect to eutrophication determines disease outcome upon toxic cyanobacterial stress in <i>Daphnia</i> .
17	Th	Isabel Vanoverberghe	White Bacterial Disease in <i>Daphnia</i> is associated with the oxidation of lipids in the adipose tissue
18	Th	Isabel Vanoverberghe	Evaluation of invertebrate toxins pesticide capacity in non-target and ecotoxicological model species <i>Daphnia magna</i>
19	Mo	Eugenia I. Bekker	Species diversity of Euryercidae (Cladocera: Anomopoda): new findings in the Beringia region
20	Th	Olga Dubovskaya	Modern and paleo- cladocerans of a lake system of Bolshezemelskaya Tundra
21	Mo	Larisa Frolova	Cladoceran assemblages of polygon ponds in the Kolyma Lowland (north-east Siberia, Russia)
22	Th	Thomas C. Jensen	Water chemistry versus flooding mitigation measures in flood plain ponds, implications for Cladoceran diversity and community structure?
23	Mo	Gulnara Nigamatzyanova	Cladocera of Arctic lakes of Lena Delta River (North part of Republic of Sakha, Yakutia)
24	Th	Anna A. Novichkova	Cladocera of Wrangel Island (Russian Far East)
25	Mo	Eliana A. Panarelli	Spatial distribution of Cladocera in Brazilian rocky fields
26	Th	Jhaydee Ann F. Pascual (S)	Water fleas in the “Pearl of the Orient”: Taxonomy and distribution of Cladocera in Philippine inland waters
27	Mo	Radka Ptáčníková	Spatial and temporal diversity of cladocerans in pools of Lower Lobau (Austria)
28	Th	Aurora Vázquez-Sánchez (S)	Cladoceran diversity in a tropical reservoir in Mexico

no.	session	presenting author	poster title
29	Mo	Xiaolin Ma (S)	Molecular systematics of the <i>Daphnia pulex</i> group in Chinese lakes and reservoirs
30	Th	Ali Mohammadyari (S)	Diversity of <i>Daphnia</i> in Caspian and Urmia Lake Basins (Northern Iran): a molecular approach
31	Mo	Elena Zuykova	Mitochondrial DNA diversity of the <i>Daphnia longispina</i> complex in South Siberia
32	Th	Francisco Diogo R. Sousa (S)	What do we know about diversity of <i>Coronatella</i> in South America?
33	Mo	Lourdes M. A. Elmoor-Loureiro	Redescription of <i>Euryalona brasiliensis</i> Brehm & Thomsen, 1936 (Chydoridae, Aloninae) and its translocation to the genus <i>Kurzia</i> Dybowski & Grochowski, 1894
34	Th	Anna N. Neretina (S)	Morphology of the genus <i>Moinodaphnia</i> Herrick, 1887 (Cladocera: Moinidae) with particular attention to structure of thoracic limbs and distinctions between populations from different localities
35	Mo	Artem Y. Sinev	Morphology of four species of genus <i>Camptocercus</i> Baird, 1843 (Anomopoda: Chydoridae).
36	Mo	Carolyn Burns	A new subalpine species of <i>Daphnia</i> (Cladocera, Anomopoda) in South Island, New Zealand: morphological and genetic differentiation from the <i>D. carinata</i> species complex
37	Th	Carlos Iglesias	South Amerian Ehippia Research Network
38	Mo	Tatiana Lopatina	The effect of $\gamma$ -radiation on hatching success of resting eggs and life cycle of hatched females of cladoceran <i>Moina macrocopa</i>
39	Th	Jacek Radzikowski (S)	The effect of lake sediment on hatching of <i>Daphnia</i> resting eggs
40	Mo	Anu Vehmaa	Dormant eggs as a tool for relating changes in cladoceran community to anthropogenic eutrophication in the Baltic Sea
41	Th	Magdalena Suchora	Response of Cladocera to hemp-retting practices – from paleolimnology, to the experiment
42	Mo	Krystyna Szeroczyńska	Subfossil Bosmina size structure – the paleolimnology indicator
43	Th	Anton A. Zharov (S)	Subfossil Cladocera assemblages in two pond groups in Moscow Area, Central Russia
44	Mo	Irina Blinova	Assessment of long-term effects of accidental pollution
45	Th	José Luis Gama Flores	Toxicity of cadmium to <i>Moina macrocopa</i> (Cladocera) through different generations
46	Mo	Brenda Gonzáles-Pérez (S)	Competition between <i>Moina macrocopa</i> and <i>Alona glabra</i> influenced by emerging contaminants and turbidity of the medium.
47	Th	Margit Heinlaan	<i>Daphnia magna</i> in nanoecotoxicological studies: the state of the art
48	Mo	Fernando Martínez-Jerónimo	Toxic effects on survival and reproduction of <i>Ceriodaphnia dubia</i> exposed in different ways to Congo red dye
49	Th	Aurora Martínez-Téllez (S)	Effect of malathion on the population growth of <i>Simocephalus mixtus</i> and <i>Moina macrocopa</i> (Cladocera)
50	Mo	Rosa Martha Moreno-Gutiérrez (S)	Effect of erythromycin and ivermectin on the demography of the cladoceran <i>Moina macrocopa</i> (Cladocera)
51	Th	Alfredo Pérez-Morales (S)	Effect of toxic cyanobacterium ( <i>Microcystis aeruginosa</i> ) on the population growth of selected cladocerans ( <i>Simocephalus mixtus</i> , <i>Daphnia cf. mendotae</i> and <i>Moina macrocopa</i> )
52	Mo	Adrianna Wojtal-Frankiewicz	Response of an antioxidant system of <i>Daphnia</i> under spatial differences of toxic Cyanobacteria concentration in the eutrophic reservoir
53	Th	Cesar Alejandro Zamora Barrios (S)	Demographic responses of <i>Moina macrocopa</i> to cyanobacterial crude extracts
54	Mo	Sujeephon Athibai	Combined effects of temperature and food concentration on the reproduction, lifespan and body size of <i>Moina micrura</i> Kurz
55	Th	Michael Anai Figueroa-Sánchez (S)	Effect of 17- $\alpha$ -methyl testosterone on the demographic variables of <i>Moina macrocopa</i>
56	Mo	Meetzli Alejandra Valencia-Vargas (S)	Demographic characteristics of selected cladocerans in the presence of invasive and native copepod predators <i>Mesocyclops pehpeiensis</i> Hu and <i>M. longisetus</i> Thiébaud
57	Th	José Luis Viveros-Legorreta (S)	Allelopathic effect of <i>Ceratophyllum demersum</i> (L.) on the demography of <i>Moina macrocopa</i> (Straus, 1820) (Cladocera)