

# Programme schedule

## August 17 - morning

**6**

### **Impact of genetically modified crops on arthropod development and reproduction**

**Convenor: A. M. R. Gatehouse**

	participant	title of oral presentation
<b>7:30-7:40</b>	<b>OPENING - day 1</b>	
7:40 - 7:55	Gatehouse, Angharad	Role of Biotechnology in Crop Protection: Towards Sustainability – Introduction to Session (O)
7:55 - 8:25	Ferré, Juan	Mode of action on Bacillus thuringiensis toxins and insect resistance (O)
8:25 - 8:55	Gatehouse, John	Biotechnological solutions for protecting wheat against insect pests (O)
8:55 - 9:25	Pennacchio, Franco	Novel strategies for insect-resistant transgenic crops: use of molecules from biocontrol agents (O)
9:25 - 9:45	Bell, Howard	The impacts of Galanthus nivalis agglutinin (GNA) and other novel transgene proteins on parasitic wasps (O)
9:45 - 10:05	Ferry, Natalie	Impact of insect-resistant transgenic crops on insect predators (O)
<b>10:05 - 10:15</b>	<b>COFFEE</b>	
10:15 - 10:35	Rauschen, Stefan	Impacts of stacked Bt maize on non-target Lepidoptera in agrarian systems (O)
10:35 - 11:05	Ortego, Félix	Impact of Bt maize on target and non-target arthropods in the field (O)
<b>11:05 - 11:30</b>	<b>JOINT SESSION DISCUSSION</b>	

## August 17 - late morning and afternoon

**5**

### **Dormancy and developmental arrests in invertebrates**

**Convenor: V. Košťál**

	participant	title of oral presentation
11:30 - 12:00	Hand, Steven	Depression of Oxidative Phosphorylation and Glycolysis during Diapause in Artemia franciscana (O)
12:05 - 12:20	Clegg, James	Diapause and anoxic quiescence share mechanism in Artemia embryos (O)
12:25 - 12:40	Yang, Wei-Jun	The indestructible brine shrimp - unmasking the extracellular matrix peptides behind Artemia cysts (O)
12:45 - 13:00	Tarrant, Ann	Gene expression profiles associated with dormancy in the copepod Calanus finmarchicus (O)
<b>13:05 - 14:05</b>	<b>LUNCH</b>	

14:15 - 14:45	Denlinger, David	Insulin signaling as a regulator of mosquito diapause (O)
14:50 - 15:05	Koštál, Vladimír	Photoperiodic calendar of insects: how the seasonal change of day length induces diapause. (O)
15:10 - 15:25	Doležel, David	Cryptochrome – a possible link between time and space orientation in insects (O)
15:30 - 15:45	Ferenz, Hans	On the Regulation of Sequential Oogenesis in Locusts (O)
15:50 - 16:05	Eizaguirre, Matilde	Unusual hormonal regulation of the development and larval diapause in <i>Sesamia nonagrioides</i> (O)
16:10 - 16:25	Matsukura, Keiichiro	Developmental factors affecting divergent seasonal occurrence of the two host-associated populations in <i>Chilo suppressalis</i> (O)
<b>16:30 - 16:40</b>	<b>COFFEE</b>	
16:40 - 16:55	Okuda, Takashi	Cross-tolerance mechanism of a cryptobiotic chironomid, <i>Polypedilum vanderplanki</i> (O)
17:00 - 17:15	Guidetti, Roberto	Comparative analysis of dormancy strategies in tardigrades (O)
17:20 - 17:35	Frohme, Marcus	Cryptobiotic tardigrades investigated by a systems biology approach: FUNCRIPTA (O)
17:40 - 17:55	Hengherr, Steffen	Dormancy in freshwater bryozoans – physiological adaptations for passive dispersal (O)
<b>18:00 - 20:00</b>	<b>POSTERS</b>	

## August 18 - morning

### 1 Genomes, genes, and worms

Convenor: J. L. Ram

	participant	title of oral presentation
<b>7:30-7:40</b>	<b>OPENING - day 2.</b> <b>Ram, Jeffrey</b>	Introduction to the Symposium
7:40 - 8:10	Sturzenbaum, Stephen	Earthworm genes and genomes: the (re)discovery of Darwin's worms (O)
8:15 - 8:40	Weisblat, David	Something old, something new: novelties in the deployment of Wnt and BMP signaling pathways during early cleavage and dorso-ventral patterning in leech embryos. (O)
8:45 - 9:10	Engelman, Franz	Vitellogenin - Vitellogenesis: Stimulation and Feedback Inhibition (O)
9:15 - 9:25	Ram, Jeffrey	When a trail becomes a trap: Behavioral strategies for aquatic pheromones in the polychaete <i>Nereis succinea</i> (O)
9:30 - 9:55	Agata, Kiyokazu	Flatworm genomics and evolution of the central nervous system (CNS) (O)
<b>10:00 - 10:20</b>	<b>COFFEE</b>	

10:20 - 10:45	Raible, Florian	Towards regulatory genomics in <i>Platynereis dumerilii</i> , a model for marine reproductive rhythms (O)
10:50 - 11:15	Subramaniam, Kuppuswamy	PUF-8 maintains germ cell identity by suppressing the translation of somatic transcription factors in <i>C. elegans</i> germline stem cells (O)
11:20 - 11:45	Ferrier David	Polychaete genomics as a route to understanding animal genome evolution. (O)
11:50 - 12:05	Rebscher, Nicole	Conserved introns within the modular structured FGFRs from different invertebrate taxa sheds light on gene evolution in Metazoa (O)

## August 18 - afternoon

2

### The impacts of climate change and pollution on reproductive processes in marine invertebrates

Convenor: C. N. Lewis

	participant	title of oral presentation
12:05 - 12:35	Watson, Gordon	<i>Nereis virens</i> (Annelida: Polychaeta): an overlooked species for ecotoxicological research? (O)
12:40 - 12:55	Fitzer, Susan	Multigenerational effects of CO <sub>2</sub> -induced ocean acidification in the benthic harpacticoid copepod, <i>Tisbe battagliai</i> . (O)
<b>13:00 - 14:00</b>	<b>LUNCH</b>	
14:15 - 14:30	Simon, Carol	Effects of heavy metals and a diatom-derived aldehyde on the development and survival of <i>Haliotis midae</i> larvae (O)
14:35 - 14:50	Lewis, Ceri	Susceptibility and resilience of reproductive processes to a changing marine environment (O)
14:55 - 15:10	Ford, Alex	Intersexuality and endocrine disruption in Crustacea: Pollution, Parasitism or Both? (O)
15:15 - 15:30	Short, Stephen	Using high throughput sequencing and digital transcriptomics to determine sex specific genes in amphipods (O)
15:35 - 15:50	McQuaid, Christopher	Understanding climate change and reproductive success: a perspective on the need for a holistic approach. (O)
15:55 - 16:10	Dorey, Narimane	Development in the brave new ocean (O)
<b>16:15 - 16:35</b>	<b>COFFEE</b>	
<b>17:00 - 19:00</b>	<b>POSTERS</b>	
<b>19:00 - 19:45</b>	<b>Conference evaluation by General ISIRD Assembly and MOBITAG representatives</b>	

## August 19 - morning I

**3**

### **Biochemistry and molecular biology of molting in crustacea and insects**

**Convenor: H. Laufer**

	participant	title of oral presentation
<b>7:30 - 7:35</b>	<b>OPENING - day 3</b>	
7:35 - 7:55	Terwilliger, Nora	Gene expression profiles and functions of hemolymph proteins during molting (O)
8:00 - 8:20	Sagi, Amir	Protein involvement in assembly of extracellular calcium storage during molt. (O)
8:25 - 8:45	Mykles, Donald	Neuropeptide signaling in the molting glands of crustaceans and insects (O)
8:50 - 9:10	Laufer, Hans	Molting in Lobsters is Affected by Alkylphenols (O)
9:15 - 9:30	Poyraz, Esen	The effects of juvenile hormone analogue, fenoxycarb, on testis development of Bombyx mori during larval-pupal development (O)
9:35 - 9:50	Velki, Mirna	Effects of the insect growth regulator diflubenzuron on the molting process of Daphnia magna (Cladocera) (O)
9:55 - 10:10	Glazer, Lilah	Chitin associated extra-cellular proteins in the gastrolith of molting crayfish (O)
10:15 - 10:30	Bentov, Shmuel	Dental convergent evolution; enamel-like molar tooth, found in a crayfish mandible (O)
<b>10:35 - 10:45</b>	<b>COFFEE</b>	

## August 19 - morning II

**4**

### **Daphnia and other cladocerans as model organisms**

**Convenors: J. Sed'a, A. Petrusek**

	participant	title of oral presentation
10:45 - 11:10	Hülsmann, Stephan	Contribution of hatching from resting eggs to spring recruitment of Daphnia in a deep reservoir (O)
11:15 - 11:25	Sed'a, Jaromír	Significance of sexual and asexual reproduction in Daphnia inhabiting large reservoir: Evidence from long-term and short term data. (O)
11:30 - 11:40	Hamrová, Eva	Strong difference in clonal variation in two Daphnia species from mountain lakes affected by overwintering strategy. (O)
11:45 - 11:55	Vaničková, Ivana	The effect of an extreme flood event on the resting eggs of the Daphnia longispina complex in a long and narrow reservoir (O)
12:00 - 12:10	Martínez-Jerónimo, Fernando	Fecundity and male production in parthenogenetic females of Daphnia exilis Herrick 1895 (Cladocera: Anomopoda) grown at different population densities. (O)

12:15 - 12:25	Grzesiuk, Malgorzata	The synchronization of the appearance of males and sexual eggs in <i>Daphnia</i> population (O)
12:30 - 12:40	Bednarska, Anna	<i>Daphnia</i> – cyanobacteria interaction under global warming conditions. (O)
12:45 - 12:55	Pietrzak, Barbara	Ecology of ageing - <i>Daphnia</i> model (O)
<b>13:00 - 14:00</b>	<b>LUNCH</b>	
<b>14:00 - 18:00</b>	<b>CITY TOUR</b>	
<b>20:00 - 22:00</b>	<b>BANQUET</b>	

## August 20 - morning

### 7 Miscellaneous reports on invertebrate reproduction and development

Chairmen: J. Koene, V. Yushin

	participant	title of oral presentation
<b>7:30 - 7:40</b>	<b>OPENING - day 4</b>	
7:40 - 7:55	Znidarsic, Nada / Strus, Jasna	Cuticle structure and calcium dynamics during molt cycle in isopod crustaceans from different habitats (O)
8:00 - 8:15	Muraleedharan, Damodaran	Verson's Gland Proteins as Insect Metamorphic Endocrine Marker Molecules (O)
8:20 - 8:50	Koene, Joris	Sex and conflict in hermaphrodites: stabbing, piercing and allohormones (O)
8:55 - 9:10	Doyle, Gina	Influence of environmental factors and spatial distribution on the reproduction of the brittle star <i>Ophiopholis aculeata</i> (Echinodermata: Ophiuroidea) (O)
9:15 - 9:30	Swiney, Katherine	Does maternal size affect red king crab ( <i>Paralithodes camtschaticus</i> ) recruitment potential due to embryo or larval production? (O)
9:35 - 9:50	Buckland-Nicks, John	Novel mechanisms of secretion form the egg hull in chitons (O)
<b>9:55 - 10:15</b>	<b>COFFEE</b>	
10:15 - 10:45	Yushin, Vladimir	Nematode egg formation (O)
10:50 - 11:05	Ventura, Tomer	A crustacean androgenic gland insulin-like hormone affecting male sexual differentiation (O)
11:10 - 11:25	Dolejš, Petr	Reproduction of <i>Tricca lutetiana</i> and <i>Arctosa alpigena lamperti</i> (Araneae: Lycosidae) (O)
11:30 - 11:45	Ghosh, Durgadas	Characterization of Vitellin of <i>Oxya hyla hyla</i> (Orthoptera) (O)
11:50 - 12:05	Hoeger, Ulrich	Endocytosis and yolk body formation during oocyte growth in the polychaete, <i>Platynereis dumerilii</i> . (O)
12:10 - 12:25	Gibson, Glenys	Phenotypic divergence in polychaete larvae is based on a trade-off between differentiation and growth. (O)

12:30 - 12:45	Roth, Ziv	Cloning and sequencing of ovarian specific lipoprotein receptor from the fresh water prawn <i>Macrobrachium rosenbergii</i> (O)
<b>12:50 - 13:00</b>	<b>Closing speech</b>	
<b>13:00 - 14:00</b>	<b>LUNCH</b>	