

**COST 850  
Biocontrol Symbiosis**

**Workshop:**

**Genomics and symbiotic interactions between micro-organisms and their helminthic or invertebrate hosts**

**Date:  
July 15-17, 2005**

**Place:  
Orthodox Academy of Crete, Kolymbari, Crete, Greece**

**Local Organiser: Kostas Bourtzis**  
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# Final Programme

## Friday July 15<sup>th</sup>, 2005

Arrivals

**20.30 – 21:30**            **DINNER**

## Saturday July 16<sup>th</sup>, 2005

**07.15 – 08:15**            **BREAKFAST**

08.15 - 08.30            Welcome by local organizer and COST 850 chairman –  
Kostas Bourtzis (Greece) + Ralf-Udo Ehlers (Germany)

### ***Genomics***

#### Session I

**Chair: Dr. Richard ffrench-Constant**

08.30 - 08.55            Environmental sensing and comparative genomics in *Xenorhabdus* spp. - Steve Forst (USA)

08.55 – 09.20            Genomic and post-genomic analysis of *Photorhabdus luminescens* TT01 strain, an entomopathogenic bacterium. - Sophie Gaudriault, Eric Duchaud, Anne Lanois, Noel Boemare, and Alain Givaudan (France)

09.20 – 09.45            Insect *Wolbachia* Genomics - Siv Andersson (Sweden)

09.45 - 10.10            Genomics of the *Wolbachia* wPip strain from *Culex* mosquitoes - Steve Sinkins (**United Kingdom**)

10.10 - 10.35            Insight into the mechanism of *Wolbachia* wVul genome evolution in feminized Isopoda *Armadillidium vulgare* - Lanming Chen (Denmark)

10.35 – 11.00            A genome sequence survey of the *Wolbachia* symbiont of the filarial nematode *Onchocerca volvulus* (wOvo): coevolution, gene transfer, and the origin of arthropod *Wolbachia*" - Mark Blaxter, K. Fenn, C. Whitton, M. Jones and J. Parkhill (**United Kingdom**)

**11.00 – 11.30**            **COFFEE**

11.30 - 11.55            Evolutionary genomics of *Buchnera aphidicola* - Andres. Moya (Spain)

- 11.55 - 12.20 The extra-chromosomal DNA of *Sodalis glossinidius* - Alistair Darby (**United Kingdom**)
- 12.20 - 12.45 *Sodalis* Symbiosis Islands – Simon Young (**United Kingdom**)

## **Invertebrate-Symbiont Interactions**

### Session II

**Chair: Dr. Ralf-Udo Ehlers**

- 12.45 - 13.10 How to make caterpillars small or floppy - Richard French-Constant (**United Kingdom**)
- 13.10 - 13.35 Nutrition and signal exchange between *Photorhabdus* and its invertebrate hosts - David Clarke (**United Kingdom**)
- 13.35 – 14:30 LUNCH**
- 16.00 – 16.30 COFFEE**
- 16.30 – 16.55 Stages of infection and virulence gene expression during the interaction between *Photorhabdus* and insect hosts. - Alain Givaudan, Sylvie Pagès, Karine Brugirard-Ricaud, Robert Zumbühl, and Michel Brehélin (**France**)
- 16.55 - 17.20 They've got a ticket to ride: molecular mechanisms of *Xenorhabdus nematophila* colonization of *Steinernema carpocapsae* nematodes - Goodrich Blair (**USA**)
- 17.20 - 17.55 The endosymbiosis of *Blochmannia* with carpenter ants - Roy Gross (**Germany**)
- 17.55 - 18.20 Rapid coevolution between *Daphnia* and its microparasites - Dieter Ebert (**Switzerland**)

## **Symbiosis Research and EU funding**

### Session III

**Chair: Dr. Siv Andersson and Dr. Andres Moya**

- 18.20 – 20.30 Open discussion about funding opportunities in the frame of the current framework EU Framework 6 (Resubmission of EuroSym?) and the next, EU Framework 7.
- 20.30 – 21:30 DINNER**

# **Sunday, July 17<sup>th</sup>, 2005**

## **Invertebrate-Symbiont Interactions**

### Session IV

**Chair: Dr. David Clarke**

- 08:00**                    **COFFEE**
- 10:00**                    **BREAKFAST**
- 10.30 - 10.55            Incompatible Insect Technique: a novel and environmentally friendly technology for insect pest population control - Kostas Bourtzis and Sofia Zabalou (Greece)
- 10.55 – 11.20            Wolbachia infecting worker ants: What is a reproductive endoparasite doing inside a sterile host - David Huges (Finland)
- 11.20 – 11.45            Micromalthus debilis, endosymbionts and life history traits – Henk Braig (United Kingdom)
- 11.45 -12.05**            **COFFEE**
- 12.05 - 12.30            From cockroaches to filarial nematodes: an ultrastructural journey in symbiosis - Claudio Bandi (Italy)
- 12.30 – 12.55            Intramitochondrial symbionts in the tick Ixodes ricinus - Nathan Lo (Italy)
- 12.55 - 13.20            Cell biology studies on host-*Wolbachia* interactions - Elena Kiseleva (Russia)
- 13.20 – 13.45            Wolbachia effects on Drosophila melanogaster: longevity, male success, fitness – Irina Goryacheva (Russia)
- 13.45 – 14.10            Whitefly symbionts – Yuval Gottlieb (Israel)
- 14.10 – 14.35            Rickettsia as secondary symbionts of insects - Einat Zchori-Fein (Israel)
- 14.35**                    **END OF MEETING AND LUNCH**