



Insect symbionts:

Plasticity in confronting environmental challenges

Agenda

8/5 – Arrival of satellite meeting participants

9/5 – Satellite meeting: Symbiont metabolic interactions

Arrival of workshop participants

10/5

8:00- Morning tour

10:00-10:15 Welcome addresses

10:15-11:00 Opening - Martin Kaltenpoth (University of Mainz) - **Outsourcing immunity: Microbial symbionts for pathogen defense in insects**

11:00-11:20 Coffee break

11:20 – 13:00 Metabolic interactions

Chair: Laurence Mouton

11:20-11:40 Shiri Freilich (Agricultural Research Organization) - **Metabolic network approach for studying microbial community function**

11:40-12:00 Shani Ofaim (Agricultural Research Organization) - **Tools for genomic-driven analyses of bacterial metabolic interactions and performances**

12:00-12:20 Fabrice Vavre (University of Lyon) - **Towards the dark or the light side of the force? Life and death of symbiotic interactions in ticks**

12:20-12:40 Diego Santos (Hebrew University) - **Inside out: Are gut bacteria involved in whiteflies' plant adaptation?**

12:40-13:00 Eugeni Belda (Pasteur Institute) - **From automatic and expert genome annotation to the reconstruction of genome-scale metabolic models**

13:00-14:30 Lunch



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14:30 – 16:00 Phenotypes I

Chair: Michael Ben Yosef

14:30-14:50 Molly Hunter (University of Arizona) - **Comparative biology of the reproductive manipulator *Cardinium***

14:50-15:10 Ally Harari (Agricultural Research Organization) - **Indirect involvement of endosymbionts in mate choice**

15:10-15:30 Laurence Mouton (University of Lyon) - **Influence of host-symbionts interactions inferred from populations' data**

15:30-15:50 Omer Lavy (Tel-Aviv University) - **On bacterial assemblage and density-dependent phases in the desert locust**

15:50-16:10 Coffee break

16:10-17:30 Multimember symbiotic complexes

Chair: Sara Epis

16:10-16:50 Edouard Jurkevitch & Boaz Yuval (Hebrew University) - **Fruit, flies, and the bacteria in between**

16:50-17:10 Michal Segoli (Ben-Gurion University) - **Tripartite underground symbiosis between a desert plant, a weevil beetle and nitrogen-fixing bacterium**

17:10-17:30 Ayelet Caspi-Fluger (University of Haifa) - **Symbiotic complex in a guild of housefly parasitoids**

Dinner



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8:30-9:20 The Negev desert

9:20 – 12:40 Phenotypes II

Chair: Diego Santos

9:20-10:00 David Giron (University of Tours) - **Insect microbial symbionts can modulate plant exploitation by phytophagous insects**

10:00-10:20 Jean-Christophe Simon (INRA, Rennes) - **Facultative symbionts of aphids as influential passengers**

10:20-10:40 Coffee break

10:40-11:00 Nir Netanel (Agricultural Research Organization) - **Secondary symbionts game of throne in the courtyard of Israeli whiteflies**

11:00-11:20 Alejandro Manzano (Agropolis Foundation) - **The rise of co-obligate symbioses in aphids**

11:20-11:40 Julien Varaldi (University of Lyon) - **Behaviour manipulation and horizontal gene transfer in parasitoid-virus interactions**

11:40-12:00 Malka Halpern (University of Haifa) - **The role of quorum sensing signals on the interactions between *Vibrio cholerae* and chironomids microbiome**

12:00-12:20 Elad Chiel (University of Haifa) - **Microbiome of soft scale insects (Hemiptera: Coccidae)**

12:20-13:50 Lunch



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13:50 – 15:10 Symbionts and Evolution

Chair: Elad Chiel

13:50-14:10 Sara Epis (University of Milan) - **Of yeasts, sandflies and Leishmaniasis**

14:10-14:30 Alessandra Cafiso (University of Milan) - ***Midichloria*, the symbiont of ticks transmitted during the blood meal. What is the role of horizontal transmission?**

14:30-14:50 Liora Shaltiel (Tel-Hai College) - **The microbial gut community of BSF (*Hermetia illucens*) is affected by the consumption of different agricultural wastes**

14:50-15:10 Michael Ben-Yosef (Hebrew University) - ***Coxiella* and ticks: agreement sealed in blood**

16:00 - Departure