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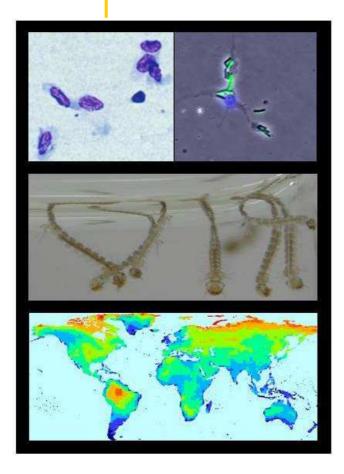
The Impact of the Environment on Innate Immunity: The Threat of Diseases

Universitätszentrum Obergurgl (Ötz Valley, near Innsbruck) • Austria 4-9 May 2009

Chair: Joachim Kurtz, University of Münster, DE

Co-Chairs: Sophie Armitage, University of Münster, DE Paul Schmid-Hempel, ETH Zürich, CH

www.esf.org/conferences/09223



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Final Programme

Monday, 4 May

17.00 onwards	Registration at the ESF desk
19.45	Welcome Drink
20.00	Dinner

Tuesday, 5 May

08.30-09.00 Conference Opening

Session 1: Principles and applications of innate defence Chair: Sophie Armitage, University of Münster, DE

09.00-09.45	Joachim Kurtz University of Münster, DE Evolutionary ecology of innate defence
09.45-10.30	Michael Zasloff Georgetown University, US Exploiting discoveries in innate immunity in our defence against infectious agents
10.30-11.00	Coffee break
11.00-11.45	Laszlo Otvos Temple University, US Alternative modes of action of native and designer antimicrobial peptide
11.45-12.00	Matthew Tinsley Stirling University, UK Genetic variation and investment tradeoffs for immune senescence in Drosophila melanogaster (short talk)
12.00-12.15	Jens Rolff University of Sheffield, UK Immunopathology, aging and infection in Tenebrio molitor (short talk)
12.15-12.30	Juliette de Meaux Max Planck Institute for Plant Breeding Research, DE Evolution of flagellin sensing in Arabidopsis thaliana and its relatives (short talk)
12.30	Lunch

Session 2: Host-parasite interactions

Chair: Joachim Kurtz, University of Münster, DE

14.00-14.45	Paul Schmid-Hempel
	Evolutionary ecology of host-parasite interactions
14.45-15.30	Thierry Rigaud University of Bourgogne, FR

15.30-15.45	Local adaptation patterns in acanthocephalan parasites infecting freshwater gammarids, with potential consequences in biological invasions Stéphane Cornet University of Bourgogne, FR Immunodepression and virulence in an acanthocephalan-crustacean system (short talk)
15.45-16.00	Ellen Decaestecker University of Leuven, BE Daphnia-parasite co-evolution in a dynamic environment (short talk)
16.00-16.30	Coffee break
16.30-17.15	Kenneth Pfarr University Hospital Bonn, DE Endosymbiosis between Wolbachia and filarial nematodes – consequences for the innate response
17.15-18.00	Joanne Webster Imperial College London, UK Host-schistosome evolution and coevolution
19.00	Dinner
20.30-22.00	Poster session I

Wednesday, 6 May

Session 3: Environmental stressors and innate immunity Chair: Paul Schmid-Hempel, ETH Zürich, CH

Richard Pipe Marine Biological Association, UK Effects of environmental factors on immune function and bacterial infection in developmental stages of marine bivalves
Bernd Sures University of Duisburg-Essen, DE Lecture
Coffee break
Jukka Jokela Swiss Federal Institute of Aquatic Sciences and Technology, CH Trade-offs in invertebrate immune systems
Ken Wilson Lancaster University, UK The impact of macronutrients on immune function and disease resistance in insects
Lunch
Jay Evans USDA Beltsville, US Environmental and genetic aspects of honey bee disease resistance
Michael Simone University of Minnesota, US Resin collection and social immunity in honey bees (short talk)

15.00-15.15	Olivia Roth University of Münster, DE Paternally derived immune priming for offspring in the red flour beetle, Tribolium castaneum (short talk)
15.15-15.30	François Criscuolo University of Strasbourg, FR Expression of avian UCP in immune cells: a new effector controlling immune response in birds? (short talk)
15.30-16.00	Coffee break
16.00-19.00	Poster Session II
19.00	Dinner

Thursday, 7 May

Session 4: Introduction to model systems and vectors of disease

Chair: Sunetra Gupta, University of Oxford, UK

09.00-09.45	Hilary Hurd Keele University, UK Speculations on the complexity of malaria / mosquito interactions
09.45-10.30	Yannis Michalakis CNRS Montpellier, FR Polyparasitism: consequences on mosquito hosts and their microsporidian parasites
10.30-11.00	Coffee break
11.00-11.45	George Christophides Imperial College London, UK Mosquito immunity to malaria: resistance vs. tolerance and imponderables
11.45-12.30	David Schneider Stanford University, US How the fruit fly alters its environment as a part of its innate immune response
12.30	Lunch
Afternoon	Half-day free time
19.00	Dinner

Friday, 8 May

Session 5: Innate immunity and disease in a changing world Chair: Hilary Hurd, Keele University, UK

09.00-09.45	Eugene Rosenberg Tel Aviv University, IL The role of microorganisms on innate immunity
09.45-10.00	Caroline Palmer Newcastle University, UK The effect of warmer water on coral immunity

10.00-10.15	Robert Puschendorf James Cook University, AU The effect of environmental conditions on an emerging infectious disease in wild frogs (short talk)
10.15-10.30	Douglas Woodhams University of Zürich, CH Enhancing amphibian immunity: the interaction of antimicrobial peptides and microbiota on amphibian skin (short talk)
10.30-11.00	Coffee break
11.00-11.45	Peter Hudson Penn State University, US Dualities of infection: coinfection and disease dynamics in a variable world
11.45-12.00	Samuel Alizon ETH Zürich, CH Nested models to study parasite evolution: the case of co-infections (short talk)
12.30	Lunch
14.00-14.45	Ana Rivero CNRS Montpellier, FR Interaction between insecticide resistance and transmission by vectors
14.45-15.30	Andrew Dobson Princeton University, US The eye of the finch: systems biology of an emergent avian pathogen
15.30-16.00	Coffee break
16.00-16.45	Sunetra Gupta University of Oxford, UK Effects of immune selection on the evolution of pathogen diversity
16.45-17.30	Richard Lucius Humbolt University, Berlin, DE Decrease of infections and increase of allergies in industrialised countries: the role of parasitic worms
18.00-19.30	Forward Look Plenary Discussion
20.00	Get-together & Conference Dinner

Saturday, 9 May

08.00 Breakfast & Departure

Abstracts, Posters & Short Oral Presentations

There will be no short talks other than those listed on the programme. All other abstracts are accepted as posters. The list of accepted posters is available from www.esf.org/conferences/09223.

Posters can be fixed with pins onto poster panels. Recommended poster size is 140 cm high x 100 cm wide. Use letters and drawings that can be read from approximately 100 cm distance.