

Preliminary Scientific Program
National Meeting of Developmental and Comparative Immunology
Justus Liebig University Giessen
October 8th to 10th 2008

WEDNESDAY, 08TH OF OCTOBER 2008

Welcome and Reception at the Justus Liebig University Giessen

Location: Main Building of the University Giessen, Ludwigstraße 23 (Rektorenzimmer)
Time: 6:00 to 10:00 p.m.

Plenary speaker: Thomas C. G. Bosch

“The innate immune system in cnidarians.”

Zoological Institute, Christian Albrechts University, Kiel, Germany

THURSDAY, 09TH OF OCTOBER 2008

Location: Research Centre for BioSystems, Land Use and Nutrition (IFZ)

Justus Liebig University Giessen, Heinrich Buff Ring 26, room B301 (3rd floor)

Welcome by the organizers

Welcome by Prof. Dr. phil. habil. Stefan Hormuth, President of the Justus Liebig University Giessen, Germany

Dorresteijn A:

“Phagocytosis during phylogeny in the animal kingdom.”

Institute of General Zoology and Developmental Biology, Justus Liebig University Giessen, Germany

Plenary speaker: Karl-Heinz Kogel

“Innate immunity in plants.”

Institute of Phytopathology and Applied Zoology, Justus Liebig University Giessen, Germany.

Morning session: Innate vs. adaptive immunity

Vilcinskas A

Comparative analysis of immune-inducible transcriptomes of insects and other invertebrates.
Institute of Phytopathology and Applied Zoology, Justus Liebig University Giessen, Germany.

Roth O¹ and Kurtz J²

“Strain-specific immune priming.”

¹Institute for Integrative Biology, Experimental Ecology, ETH-Zentrum, Zürich, Switzerland;

²Institute for Evolution and Biodiversity, Westfälische Wilhelms Universität Münster, Germany

Scharsack JP¹, Eizaguirre C², Hibbeler S, Rauch G², Kurtz J² and Kalbe M²

“Differential activation of adaptive and innate immune traits in three spined stickleback (*Gasterosteus aculeatus*) lake and river ecotypes.

¹Institute for Evolution and Biodiversity, Münster University, Germany,

²Department of Evolutionary Ecology, Max Planck Institute for Evolutionary Biology, Germany

Afternoon session

Session: Recognition strategies in plants, invertebrates and vertebrates (I)

Plenary speaker: Werner E. G. Müller

“Recognition strategies and body plan formation in Porifera.”

Institute of Applied Molecular Biology, Johannes Gutenberg University Mainz, Germany

Leippe M

“From amoeba to higher organisms: Ancient effector proteins with function in nutrition and immunity.”

Zoological Institute, Christian Albrechts University Kiel, Germany

Fraune S¹, Abe Y^{1,2} and Bosch TCG¹ “Towards Understanding a Holobiont: Host-Microbe Interaction in *Hydra*”

¹Zoological Institute, Christian Albrechts University Kiel, Germany; ²Department of Biophysics, Kyoto University, Japan

Lange C^{1,2}, Hemmrich G¹, Rahn T¹, Schreiber S², Rosenstiel P^{2*} and Bosch TCG¹

“Towards understanding the evolution of disease-associated genes: NOD-like receptors in *Hydra*.”

¹Zoological Institute, University of Kiel, Germany; ²Institute of Clinical Molecular Biology, University Hospital Kiel, Germany

Bilej M, Prochazkova P, Silerova M and Joskova R

“Functional heterogeneity of defense molecules in lumbricids.”

Institute of Microbiology ASCR, Prague, Czech Republic

Bovári J, Opper B, Engelmann P and Németh P

“Coelomocyte-extracts of *Eisenia fetida* earthworms induce caspase-independent apoptosis-like cell death in HeLa, Jurkat and Sp-2 cell-lines.”

Department of Immunology and Biotechnology, University of Pécs, Hungary

FRIDAY, 10TH OF OCTOBER 2008

Location: Research Centre for BioSystems, Land Use and Nutrition (IFZ)

Justus Liebig University Giessen, Heinrich Buff Ring 26, room B301 (3rd floor)

Morning session

Session: Recognition strategies in plants, invertebrates and vertebrates (II)

Plenary speaker: Kenneth Söderhäll

“An innate immune system in invertebrates, the proPO-system.”

Department of Physiology and Developmental Biology, University of Uppsala, Sweden

Kanost M

Title needs to be announced

Kansas State University, Manhattan, USA

Trenczek T

Title needs to be announced

Institute of Zoology, Justus Liebig University Giessen, Germany

Altincicek B

“Danger signals in insect immunity.”

Institute of Phytopathology and Applied Zoology, Justus Liebig University Giessen, Germany

Mukherjee K

Galleria mellonella as alternative insect model host to investigate *Listeria* pathogenesis.

Institute of Phytopathology and Applied Zoology, Justus Liebig University Giessen, Germany.

Reynolds St

“Nitric oxide in *Manduca*.”

Department of Biology and Biochemistry, University of Bath, United Kingdom

Preissner KT

"Extracellular RNA as new alarm signal in defense mechanisms."

Justus Liebig University Giessen, Germany.

Afternoon Session

Session: Immunity and development

Freitag D, Heckel D and Vogel H

"Trans-generational imprinting in herbivorous Lepidopteran *Trichoplusia ni* is dependent on diet and shows strong maternal effects."

Max Planck Institute for Chemical Ecology, Department of Entomology, Jena, Germany

Knorr E

Matrixmetalloproteinases in the development and immunity of *Tribolium castaneum*.

Institute of Phytopathology and Applied Zoology, Justus Liebig University Giessen, Germany.

Poster Session

Abdel-latif M and Hilker M

Manduca sexta eggs are able to cope with parasitism by *Trichogramma evanescens*.

Freie Universität Berlin, Institut für Biologie, Berlin, Germany.

Yakut E and Trenzcek T

"Identification and characterization of a heparin-binding-protein in the hemolymph of *Manduca sexta*."

Institut für Allgemeine und Spezielle Zoologie, Justus Liebig University Giessen, Germany.

Müller A and Trenzcek T

Eating ≠ Eating: Hemocytes from *Manduca sexta* show different endocytotic capabilities.

Institut für Allgemeine und Spezielle Zoologie, Justus Liebig University Giessen, Germany.

Siede R, Meixner M and Büchler R.

"Expression levels of immunity-related genes in *Apis mellifera* in response to experimental induction."

Landesbetrieb Landwirtschaft Hessen, Bieneninstitut, Kirchhain, Germany.