



Institute Symposium 2016

Location: Lecture hall, Abbe Center Beutenberg Campus, Hans-Knöll-Str. 1, 07745 Jena

Wednesday, September 14, 2016

- 09:00 – 09:15 **Opening remarks + review of the year 2015/16** (*David Heckel*)
- 09:15 – 09:30 **Session 1** (chair: *Antje Burse, BOL*)
"Contact chemosensation in the poplar leaf beetle (*Chrysomela populi*)"
(*Stefan Pentzold, BOL*)
- 09:30 – 09:45 "Biosynthesis of benzoxazinoids in maize: Beyond the core pathway"
(*Tobias Köllner, GER*)
- 09:45 – 10:00 "Larval chemicals stimulate female egg-laying in *Drosophila*"
(*Liwei Zhang, HAN*)
- 10:00 – 10:30 *Coffee break*
- 10:30 – 10:45 "The impact of *Physalis* on two moth species: A specialist takes advantage of
defensive compounds"
(*Andrea Barthel, HEC*)
- 10:45 – 11:00 "News from the NMR - more possibilities"
(*Christian Paetz, NMR*)
- 11:00 – 12:00 **Key talk** (chair: *David Heckel*)
"Neglected microbes, cryptic pathways, and their impact on infectious
diseases"
(*Christian Hertweck, Leibniz Institute for Natural Product Research and
Infection Biology, HKI, Jena*)
- 12:00 – 13:15 *Lunch break* (at your own expense)
- 13:15 – 13:30 **Session 2** (chair: *Hanna Heidel-Fischer, HEC*)
"The hidden allies: microbes associated with the gut of *Melolontha
hippocastani*"
(*Pol Alonso, BOL*)
- 13:30 – 13:45 "The effects of UV light and defenses on the spontaneous mutation rate
in the common duckweed *Spirodela polyrhiza*"
(*Meret Huber, GER*)
- 13:45 – 14:00 "Microarchitecture of a highly specialized olfactory glomerulus in
Drosophila melanogaster"
(*Lydia Gruber, HAN*)
- 14:00 – 14:15 "To go or not to go? Olfactory processing of odor features: Good vs. bad"
(*Ahmed Mohamed, SAC*)
- 14:15 – 14:30 **Poster talks, session 1 (odd numbers)** (13 speakers)
- 14:30 – 15:00 *Coffee break*
- 15:00 – 16:30 **Poster session 1 (odd numbers)** (in Abbe Center foyer)

Thursday, September 15, 2016

- 09:00 – 09:30 “Deciphering the metabolome of single diatom cells using mass spectrometry techniques”
(*Marine Vallet, Tim Baumeister, Max Planck Fellow Group of Georg Pohnert*)
(chair: *David Heckel*)
- Session 3** (chair: *Roman Huber, HAN*)
- 09:30 – 09:45 “Terpene biosynthesis in flea beetles: one unusual substrate and several unusual enzymes”
(*Franziska Beran, BER*)
- 09:45 – 10:00 “Small herbivore, great performance: Signalling and its counteraction after feeding of *Tetranychus urticae* on Arabidopsis plants”
(*Monika Heyer, BOL*)
- 10:00 – 10:15 “Enzymology and metabolic consequences of isothiocyanate detoxification”
(*Daniel Giddings Vassao, GER*)
- 10:15 – 10:30 “One enzyme to conquer them all?”
(*Heiko Vogel, HEC*)
- 10:30 – 11:00 *Coffee break*
- Session 4** (chair: *Dapeng Li, ITB*)
- 11:00 – 11:15 “Forward genetics and the Department of Molecular Ecology: a tale in three platforms” (part 1)
(*Klaus Gase, ITB*)
- 11:15 – 11:30 “Forward genetics and the Department of Molecular Ecology: a tale in three platforms” (part 2)
(*Rayko Halitschke, ITB*)
- 11:30 – 11:45 “Forward genetics and the Department of Molecular Ecology: a tale in three platforms” (part 3)
(*Meredith Schuman, ITB*)
- 11:45 – 12:00 **Poster talks, session 2 (even numbers)** (12 *speakers*)
- 12:00 – 13:15 *Lunch break* (at your own expense)
- 13:15 – 14:45 **Poster session 2 (even numbers)** (in Abbe Center foyer)
- 14:30 – 15:00 *Coffee break*
- Session 5** (chair: *Carlos Sanchez Arcos, GER*)
- 15:00 – 15:15 “A P-glycoprotein is linked to resistance to the *Bacillus thuringiensis* Cry3Aa toxin in a leaf beetle”
(*Yannick Pauchet, HEC*)
- 15:15 – 15:30 “3rd generation of ionless matrices: bridging MALDI-MAILD gap”
(*Jerrit Weißflog, MS*)
- 15:30 – 15:45 “Advances in CRISPR-Cas9 mediated mutagenesis in *Manduca sexta*”
(*Richard Fandino, HAN*)
- 15:45 – 16:00 “Synergistic interactions speed up evolution”
(*Daniel Preussger, KOS*)
- 16:00 – 16:10 **Conclusions** (*David Heckel*)