



Institute Symposium 2018

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

Wednesday, November 28, 2018

- 09:00 – 09:20 **Opening remarks + review of the year 2017/18** (*David Heckel*)
- Session 1** (chair: *Felix Feistel*)
- 09:20 – 09:40 "It sucks to be an herbivore: Plant defenses against phloem-feeding insects"
(*Jonathan Gershenzon, Department of Biochemistry*)
- 09:40 – 09:55 "Small size, big effects: a fungal plant pathogen manipulates tree-insect interactions"
(*Franziska Eberl, Department of Biochemistry*)
- 09:55 – 10:10 "The biosynthesis of 2-phenylethanol in *Populus trichocarpa* – lessons from specialized metabolism"
(*Jan Günther, Department of Biochemistry*)
- 10:10 – 10:25 "Current projects and possibilities of the NMR group"
(*Christian Paetz, Biosynthesis/NMR Research Group*)
- 10:25 – 10:55 *Coffee break*
- Session 2** (chair: *Fabio Miazzi*)
- 10:55 – 11:15 "How insects are driven by their noses"
(*Markus Knaden, Department of Evolutionary Neuroethology*)
- 11:15 – 11:30 "Natural sources of alcohol provide pheromone pathway amplification in *Drosophila* via microbial assistance"
(*Ian Keeseey, Department of Evolutionary Neuroethology*)
- 11:30 – 11:45 "Fecal odors deter oviposition in *Manduca sexta*"
(*Jin Zhang, Department of Evolutionary Neuroethology*)
- 11:45 – 12:00 "Multiple MFS transporters regulate the glucosinolate composition in the sequestering flea beetle *Phyllotreta armoraciae*"
(*Zhi-Ling Yang, Research Group Sequestration and Detoxification in Insects*)
- 12:00 – 12:15 **Introduction of MAX – the new Intranet**
(*Angela Overmeyer, Diana Mewes*)
- 12:15 – 13:15 *Lunch break* (at your own expense)

Session 3 (chair: *Marine Vallet*)

- 13:15 – 13:20 Introduction Sarah O'Connor (*Jonathan Gershenzon*)
- 13:20 – 13:40 **“Natural Products from Plants”**
(*Sarah O'Connor, new director at the institute*)
- 13:40 – 13:55 "Co-evolution of aposematic signals and receiver psychology "
(*Hannah Rowland, Max Planck Research Group Predators and Prey*)
- 13:55 – 14:10 "Metabolomics approaches to address microbial complexity in phytoplankton communities"
(*Tim Baumeister, Max Planck Fellow Group Plankton Community Interactions*)
- 14:10 – 14:25 “High-throughput metabolomics: Q-Exactive-HFX and GNPS”
(*Aleš Svatoš + Riya Menezes, Mass Spec./Proteomics Research Group*)
- 14:30 – 14:45 **Poster talks, session 1 (odd numbers)** (12 speakers)
- 14:45 – 16:15 *Coffee + cake available*
- 14:45 – 16:15 **Poster session 1 (odd numbers)** (in Abbe Center, 1st floor)

Thursday, November 29, 2018

09:00 – 10:00 **Talk in German**

Introduction of the speaker (Jonathan Gershenzon)

“Waldsterben reloaded oder: Warum in die Ferne schweifen? Sieh, das Wichtige liegt so nah!”

(*Henrik Hartmann, MPI für Biogeochemie, Jena*)

Session 4 (chair: *Corinna Krempf*)

- 10:00 – 10:15 “The sexual attraction gene: the key to finding the perfect mate lies in the brain”
(*Melanie Unbehend, Department of Entomology*)
- 10:15 – 10:30 “Causes and consequences of an impaired pectin digestion in beetles”
(*Roy Kirsch, Department of Entomology*)
- 10:30 – 10:45 "Microbiome-mediated preservation as an adaptive strategy in carrion-feeding insects"
(*Shantanu Shukla, Department of Entomology*)
- 10:45 – 11:15 *Coffee break*

Session 5 (chair: *Rayko Halitschke*)

- 11:15 – 11:45 “What's in store for the last 8 years of the Department of Molecular Ecology?”
(*Ian Baldwin, Department of Molecular Ecology*)
- 11:45 – 12:00 “The information landscapes of secondary metabolites, defended fortresses or moving targets?”
(*Dapeng Li, Department of Molecular Ecology*)
- 12:00 – 12:15 “Studying a plant’s ecological interactions in the time domain”
(*Lucas Cortés Llorca, Department of Molecular Ecology*)
- 12:15 – 13:15 *Lunch break (at your own expense)*
- 13:15 – 13:30 "Time to learn: changing the valence of an odor with experience"
(*Florencia Campetella, Research Group Olfactory Coding*)
- 13:30 – 13:45 "Plant insect interactions: From defense to carnivory"
(*Axel Mithöfer, Department of Bioorganic Chemistry*)
- 13:45 – 14:00 **Poster talks, session 2 (even numbers)** (12 *speakers*)
- 14:00 – 15:30 **Poster session 2 (even numbers)** (in Abbe Center, 1st floor)
- 14:00 – 15:30 *Coffee + cake available*
- 15:30 – 15:45 **Conclusions** (*David Hecke*)