

Symposium

BIOTECHNOLOGY OF NATURAL PRODUCTS

HKI-Center for Systems Biology of Infection,
Leibniz Institute for Natural Product Research and
Infection Biology – Hans Knöll Institute, Jena, Germany



DECEMBER 02, 2014

13:00 **Axel Brakhage**

Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena

Welcome

13:10 **Marc Stadler**

Helmholtz Centre for Infection Research

New bioactive secondary metabolites from cultures of Asian edible mushrooms and tropical basidiomycetes

13:55 **Dirk Hoffmeister**

Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena

Substrate specificity signatures of fungal peptide synthetases and like enzymes

14:40 **Markus Nett**

Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena

Biosynthetic pathways to novel antibiotics – Discovery and engineering

15:25 *Coffee Break*

16:00 **Michael Fischbach**

University of California, San Francisco, USA

Insights from a global view of secondary metabolism: Small molecules from the human microbiota

16:45 **Vito Valiante**

Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena

Bioprospecting using synthetic biology for secondary metabolites in fungi

17:30 **Uwe Horn**

Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena

Introduction to the HKI Bio Pilot Plant

17:55 **Lisa Mahler**

Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena

Exploiting microbial diversity with a droplet-based ultra-high throughput screening

18:30 **Visit Bio Pilot Plant**



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DECEMBER 03, 2014

09:00 **Thomas Schweder**

Ernst Moritz Arndt University of Greifswald

Heterologous expression of biosynthetic gene clusters in *Bacillus subtilis*

09:45 **Wolfgang Wiechert**

Forschungszentrum Jülich

What Bioengineers can do for Biology: Bioreactors in the “omics” age

10:30 **Eckhard Thines**

Johannes Gutenberg University, Mainz

Fungal secondary metabolites from plant pathogenic fungi and their impact on plant/
pathogen-interactions

11:15 *Coffee Break*

11:45 **Peter Neubauer**

Technische Universität Berlin

Combined cell and bioprocess engineering strategies for reconstitution of valinomycin production
in *Escherichia coli*

12:30 **Christian Hertweck**

Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena

Decoding and harnessing complex microbial assembly lines

