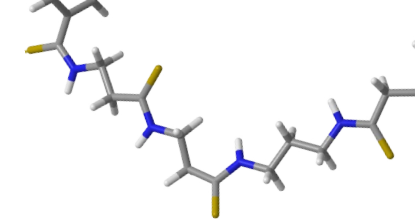


LEIBNIZ WIRKSTOFFTAGE / LEIBNIZ MEETING ON BIOACTIVE COMPOUNDS 2016

APRIL 25-26, 2016

Leibniz Institute for Natural Product
Research and Infection Biology
Hans Knöll Institute [HKI]
Seminar room Koch & Pasteur
Beutenbergstraße 11a
07745 Jena



MEETING PROGRAMME

Monday, April 25, 2016

12:00 Registration and Lunch

12:30 Welcome addresses

Axel Brakhage (Meeting chair)

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

Ludger Wessjohann (Speaker of the Leibniz Research Alliance

Bioactive Compounds and Biotechnology)

Leibniz Institute of Plant Biochemistry, Halle (Saale)

Session 1: Bioactive compounds I – Discovery

Chair: Kirstin Scherlach

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

13:00 Keynote Lecture

Peter Hammann

Sanoji-Aventis, Frankfurt

Issues and strategies of antibacterial research and development

13:45 Serge Alain Fobofou Tanemossu

Leibniz Institute of Plant Biochemistry, Halle (Saale)

The role of natural products in drug discovery: from plant extracts to new bioactive compounds

14:00 Falk Hillmann

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

Natural products are key mediators during predatory interactions between filamentous fungi and amoeba

14:15 Bernhard Westermann

Leibniz Institute of Plant Biochemistry, Halle (Saale)

Isolation, structure elucidation and synthesis of membrane-active compounds

14:30 Gerald Lackner

*Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute, Jena, and Friedrich Schiller University Jena*Genomic insights into the uncultured toxin superproducer „*Entotheonella* factor” – a symbiont of marine sponges

14:50 Coffee break

Session 2: Bioactive compounds II – Target based approaches & engineering

Chair: Jörg Overmann

Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures, Braunschweig

15:05 Talitha Feuerhake

Leibniz Institute on Aging – Fritz Lipmann Institute, Jena

Structure activity relationships of FLI-06, a Notch inhibitor acting via ER-export inhibition

15:20 Jan Chemnitz

Leibniz Institute for Experimental Virology – Heinrich Pette Institute, Hamburg

Targeting ESCRT-I for advanced anti-HIV therapy

15:35 Nico Ueberschaar

Friedrich Schiller University Jena

Bipiperidine conjugates as soluble sugar surrogates in DNA-intercalating antiproliferative polyketides

15:50 Philip Gribbon

Leibniz-Institut für Molekulare Pharmakologie, Berlin

EU Openscreen – New tools for life science research in Europe

16:20 Coffee break

16:35 Keynote Lecture

Paul Wender

Stanford University, Stanford, USA

Translating nature's library: Therapeutic leads for the eradication of AIDS and the treatment of Alzheimer's disease

Chair: Ludger Wessjohann

Leibniz Institute of Plant Biochemistry, Halle (Saale)

Session 3: Bioactive Compounds III – Non-medical applications

Chair: Dietmar Krautwurst

Deutsche Forschungsanstalt für Lebensmittelchemie, Freising

17:20 Christina Schmid

*Deutsche Forschungsanstalt für Lebensmittelchemie, Freising*The double function of thymol from thyme [*Thymus vulgaris*] – Key food odorant and bioactive

17:35 Maik Behrens

German Institute of Human Nutrition Potsdam-Rehbruecke, Nuthetal

Bitter taste receptors, the swiss army knife within the GPCR family

17:50 Birgit Michels

*Leibniz Institute for Neurobiology, Magdeburg*Memory-related effects of *Rhodiola rosea*

18:05 Patrick Marcinek

Deutsche Forschungsanstalt für Lebensmittelchemie, Freising

Revisiting saccharin – a bioactive beyond chemosensation

18:20 Award ceremony: Leibniz drug of the year

Chair: Ludger Wessjohann

Leibniz Institute of Plant Biochemistry, Halle (Saale)

19:00 Wine, fingerfood and cheese

Tuesday, April 26, 2016

Session 4: Method development

Chair: Dirk Janasek

Leibniz-Institut für Analytische Wissenschaften, Dortmund

09:00 Keynote Lecture

Mark Brönstrup

Helmholtz Centre for Infection Research, Braunschweig

Chemical Biology directed to anti-infective drug discovery

09:45 Vito Valiante

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

Molecular speciation of austinoids in filamentous fungi

10:05 Erik Freier

Leibniz-Institut für Analytische Wissenschaften, Dortmund

Spectroscopic imaging of bioactive compounds and microfluidics

10:20 Lisa Mahler

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

pL-Droplets as novel vessels for ultra-high throughput cultivation and screening of microbial cells

10:35 Coffee break

11:05

Keynote Lecture

Axel Brakhage

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

Genome mining and activation of silent fungal gene clusters: A new avenue to drug discovery

Chair: Bernhard Westermann

Leibniz Institute of Plant Biochemistry, Halle (Saale)

11:50

Florian Kloß

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

Transfer Group Antiinfectives – an approach to bridge the gap between academia and industry

12:10

Closing remarks

12:15

Lunch

13:00

Member assembly of the research alliance

Poster exhibition

Beemelmans C

The role of natural products in microbe-host interactions

Dörfer M*, Heine D, Hertweck C, Hoffmeister D

Synthesis of a probe to identify the cellular target of melleoide antibiotics

Ebersbach P*, Stehle F, Kayser O, Freier E

Localisation of cannabinoids in *Cannabis sativa* by multiphoton microscopy

Jänicke P*, Wessjohann LA, Kaluderović GN

Fluorescent silica nanoparticles carrying bioactive natural products

Jonas M*, Schmid C, Krautwurst D, Schieberle P

Structure-activity relationships of thymol-related compounds as adenyl cyclase inhibitors

Kalina M*, Kaluderović GN, Bartelt R, Brandt W, Wessjohann LA

Anticancer compound tubugi and its derivatives

Rosendahl P*, Freier E

Analysis of bioactive compounds via CARS microspectroscopy

Sester A*, Korp J, Nett M

Genomic analysis of the biosynthetic potential of *Pyxidicoccus fallax* HKI 727

Steimecke A*, Berger R, Wessjohann LA, Brandt W

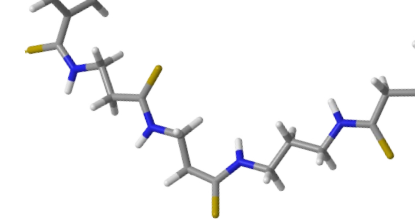
In silico screening and testing of new phytoeffectors to enhance drought stress tolerance in plants

Tippelt A*, Nett M

Genetic engineering of *Saccharothrix langispora*

Yilmaz DE*, Sayer NA

A microbial lipase from *Cryptococcus diffluens* [D44]: production and biochemical characterization



LOCATION

Leibniz Institute for Natural Product Research and Infection Biology
– Hans Knöll Institute –
Seminar room Koch & Pasteur
Beutenbergstraße 11a
07745 Jena

How to find the Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute

By car [for route guidance systems use **Adolf-Reichwein-Straße 23, Jena**]

Exit the motorway A4 at Jena-Göschwitz, follow Rudolstädter Straße towards Zentrum [city centre].

After approx. 5 km turn left into Winzerlaer Straße/Beutenberg Campus and follow the road for about 1 km until you get to the Beutenberg Campus.

When you see a bus stop, turn right there into Hermann-Löns-Straße and right again after 100 metres into Beutenbergstraße.

After 100 metres you will see the main entrance of the institute. For a limited number of visitors' parking spaces, which you are welcome to use upon request, drive 50 metres straight ahead. You will find further parking facilities on Hermann-Löns-Straße.

By train

Get off at the station Jena-Paradies. Walk for 5 minutes until you reach the bus stop City Centre/Teichgraben.

Public transport from railway stations or city hotels

Tickets for public transport are available from ticket machines on the bus. Depart from bus stop City Centre/Teichgraben or Westbahnhofstraße using the lines

- 10 [Burgaupark]
- 11 [Ammerbach]
- 12 [Göschwitz]

until you get to the stop Beutenberg Campus, then walk down the steps at the opposite bus stop leading to Beutenbergstraße. Walk straight on until you see the main entrance of the institute. Then follow the signage.

