



Leibniz Research Alliance Bioactive
Compounds and Biotechnology

Leibniz Conference on Bioactive Compounds 2017

April 10-11, 2017

Location

Deutsche Forschungsanstalt für Lebensmittelchemie
Leibniz Institut, DFA
Lise-Meitner-Straße 34
D-85354 Freising

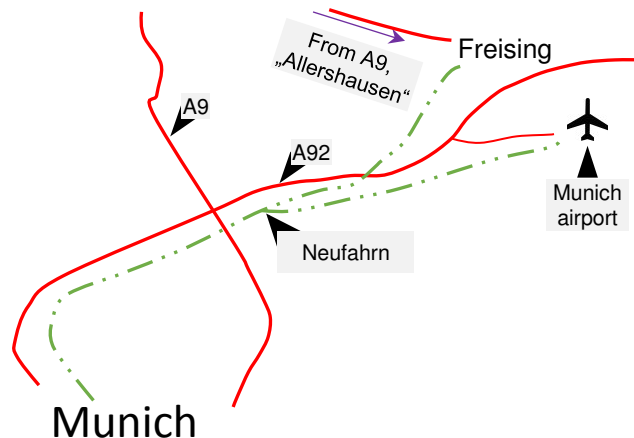
Venue

“Forstzentrum”
Hans-Carl-von-Carlowitz-Platz 1
D-85354 Freising

The venue is a 5 minute walk away from DFA

Contact: Local organization (DFA):
PD Dr. Dietmar Krautwurst &
Dr. Patrick Marcinek
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Administrative organization (IPB):
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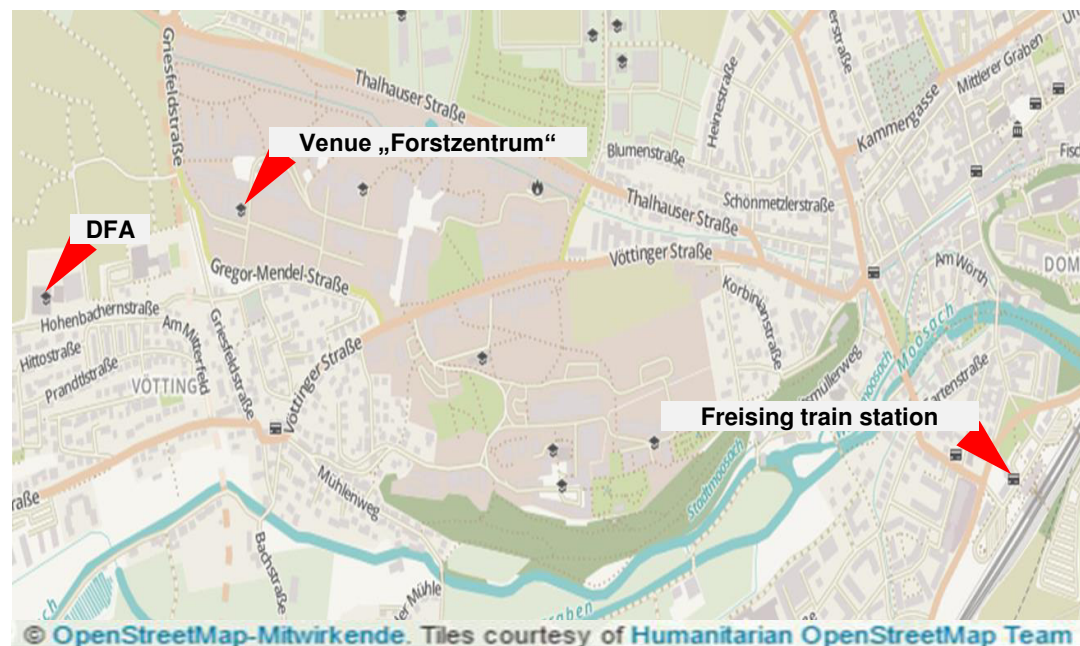


Reaching Freising:

Via **A92, A9/St2084** by car
Via **S1, RE, ALX** by train (S1 also to
airport, check train compartment in Neufahrn!)
Via bus **635** from the airport

Reaching the venue:

Bus **639** to „Forstzentrum“ every 30 minutes
Bus **638** to „Weihenstephan“ every 30 minutes,
the venue is a 5 minute walk away



Program of the Leibniz Conference on Bioactive Compounds 2017, April 10-11 in Freising/Germany

Monday, April 10, 2017

12:00 Registration and lunch

12:30 Welcome addresses

Dietmar Krautwurst (Meeting chair)

Deutsche Forschungsanstalt für Lebensmittelchemie, Leibniz Institut, Freising

Ludger Wessjohann (Speaker of the Leibniz Research Alliance Bioactive Compounds and Biotechnology)

Leibniz Institute of Plant Biochemistry, Halle (Saale)

Session 1: Drug discovery I and method development

Chair: Axel Brakhage

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

13:00 PLENARY TALK

Andreas Peschel

Department of Infection Biology, University of Tübingen

New antimicrobial compounds from human microbioms

13:45 **Pierre Stallforth**

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

Natural products from amoeba-bacteria interactions

14:00 **Vito Valiante**

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

Molecular tools to decrypt fungal natural products

14:15 **Martin J. Weissenborn**

Leibniz Institute of Plant Biochemistry, Halle (Saale) and Institute of Chemistry, Martin Luther University Halle-Wittenberg

Methods for the development of novel enzyme activities: Carbonyl-olefination reactions

14:30 Coffee break

15:00 **Andreas Brunschweiler**

Department of Chemistry and Chemical Biology, TU Dortmund University

Avenues to DNA-encoded libraries - of a chemoresistant sequence and nanoreactors

15:15 PLENARY TALK

Ulrich Nübel

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

Diversity of biosynthetic gene clusters in the myxobacterium *Sorangium cellulosum*

Session 2: Bioactive compounds – Non-medical applications

Chair: Dietmar Krautwurst

Deutsche Forschungsanstalt für Lebensmittelchemie, Leibniz Institut, Freising

15:45 **Birgit Michels**

Leibniz Institute for Neurobiology, Magdeburg

What if you could pop a pill that makes you smarter? Memory-related effects of *Rhodiola rosea*

16:00 **Maik Behrens**

German Institute of Human Nutrition Potsdam-Rehbruecke, Nuthetal

Artificial sweeteners revisited: Why blends of cyclamate and saccharin are superior compared to the individual compounds

16:15 **Patrick Marcinek**

Deutsche Forschungsanstalt für Lebensmittelchemie, Leibniz Institut, Freising

Artificial sweeteners and their impact on neutrophilic transcription and immunological functions

16:30 Coffee break

Session 3: Mode of action and novel targets

Chair: Dirk Janasek

Leibniz-Institut für Analytische Wissenschaften, Dortmund

17:00 **Selene Mogavero**

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

Candidalysin is a fungal peptide toxin critical for mucosal infection

17:45 AWARD CEREMONY

Leibniz Drug of the Year and Leibniz Research Award

Chair: Ludger Wessjohann

Leibniz Institute of Plant Biochemistry, Halle (Saale)

18:15 PLENARY TALK

Jon Clardy

Department of Biological Chemistry & Molecular Pharmacology, Harvard Medical School, Boston, USA

Lessons from the microbial metabolites that regulate multilateral symbioses

19:00 Dinner

Tuesday, April 11, 2017

Session 4: Drug discovery II

Chair: Jörg Overmann

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

09:00 PLENARY TALK

Jimmy Orjala

Department of Medicinal Chemistry and Pharmacognosy, University of Illinois at Chicago, USA

Exploring cultured cyanobacteria as a source for new biologically active molecules

09:45 POSTER SESSION - FLASHTALKS

Chair: Dietmar Krautwurst

Deutsche Forschungsanstalt für Lebensmittelchemie, Leibniz Institut, Freising

10:30 Coffee break

Session 5: Translation - From academia to industry

Chair: Ludger Wessjohann

Leibniz Institute of Plant Biochemistry, Halle (Saale)

10:45 **Frederike Kramer**

Leibniz Institute on Aging, Fritz Lipmann Institute, Jena

Improving myogenic activity of muscle stem cells - a promising target for regenerative medicine

11:00 **Florian Kloß**

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

Preclinical development of the antimycobacterial benzothiazinone BTZ043

11:30 Closing remarks

11:35 Lunch

12:30 Member assembly

Poster exhibition

B. Brennecke, B. Wiesner, J. Eichhorst, M. Krauss, V. Haucke, M. Nazaré

Photocaging of the clathrin-inhibitor Pitstop 1

F. Broda, F. Lange, G. N. Kaluderović, S. Finsterbusch-Kettner, L. A. Wessjohann

Concept of the Leibniz Bioactives Cloud

S. A. Fobofou, K. Franke, A. Porzel, L. A. Wessjohann

A metabolomic approach for bioactive natural products discovery: The example of *Hypericum* species (St. John's wort)

S. Frischbutter, L. Worpberg, O. Trupp, I. Sakwa, R. Godemann, E. Specker, S. Fillatreau, A. Hamann

A high throughput phenotypic screening infrastructure to identify novel immunoregulatory agents

P. Jänicke, C. Lennicke, B. Seliger, L. A. Wessjohann, G. N. Kaluderović

Silica nanoparticles carrying bioactive natural products and their impact on cancer cells

C. Jorsch, N. Hauck, L. Schäfer, M. Männel, J. Thiele

Cell-free biosynthesis of malonyl-CoA in microbioreactors via enzyme immobilization on microgels

B. Lexhaller, P. Koehler, K. Scherf

Pathogenesis of celiac disease: Identification of covalent complexes between transglutaminase and gluten peptides

J. Schöne, H. Bel Abed, P. Schmieder, M. Christmann, M. Nazaré

Organophosphorus-recycled synthesis of 2H-indazoles via N-N Bond Formation