

LEIBNIZ WIRKSTOFFTAGE /  
LEIBNIZ MEETING ON BIOACTIVE COMPOUNDS  
April 27-28, 2015

Ferdinand Bergen Auditorium

Heinrich Pette Institute, Leibniz Institute for  
Experimental Virology, Hamburg



**Local Organizer:**  
Heinrich Pette Institute  
Leibniz Institute for Experimental Virology  
Martinistraße 52  
20251 Hamburg



**REGISTRATION DEADLINE: April 10, 2015**

**Register now as space is limited.**  
**Please send your e-mail to:**

[wirkstoffe@ipb-halle.de](mailto:wirkstoffe@ipb-halle.de)

Registration is **free of charge**.

Participants are expected to meet their own accommodation  
and travel expenses.

**Leibniz Forschungsverbund Wirkstoffe und Biotechnologie /  
Leibniz Research Alliance Bioactive Compounds and Biotechnology**

Involving 17 institutions, the Leibniz Research Alliance Bioactive Compounds and Biotechnology bundles the Leibniz Association's broadly-based research on molecules with biological effects.

**Verbundpartner / Member of the alliance:**

Bernhard Nocht Institute for Tropical Medicine (BNITM), German Research Centre for Food Chemistry (DFA), German Institute of Human Nutrition (DIfE), German Primate Center GmbH - Leibniz Institute for Primate Research (DPZ), German Rheumatism Research Center Berlin (DRFZ), FIZ Karlsruhe - Leibniz Institute for Information Infrastructure (FIZ KA), Research Center Borstel - Leibniz-Center for Medicine and Biosciences (FZB), Heinrich Pette Institute, Leibniz Institute for Experimental Virology (HPI), Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures (DSMZ), Leibniz Institute for Age Research - Fritz Lipmann Institute (FLI), Leibniz-Institut für Analytische Wissenschaften - ISAS - e.V., Leibniz Research Centre for Working Environment and Human Factors (IfAdo), Leibniz Institut of Vegetable and Ornamental Crops (IGZ), Leibniz Institute of Plant Biochemistry (IPB), Leibniz-Institut für Molekulare Pharmakologie (FMP), Leibniz Institute for Natural Product Research and Infection Biology - Hans-Knöll-Institute (HKI), Leibniz Institute for Neurobiology (LIN), Leibniz Research Institute for Environmental Medicine (IUF), Leibniz Center for Tropical Marine Ecology (ZMT)

# PROGRAMME

## MONDAY, April 27

12:00 **Registration, Snacks and Coffee**

12:30 **Welcome address**

Heinrich Baßler (Vice President, Leibniz Association)  
Ludger Wessjohann (Chair, Leibniz Research Alliance)

13:00 **Keynote Lecture Chris Meier**

(Organic Chemistry, Uni Hamburg):  
Developing prodrugs of antivirally active nucleoside triphosphates - Against all odds - it works!

**Session 1: Pharmaceutical agents – infection and resistance**  
(Chair: Thomas Dobner, HPI)

13:45 Calcium spirulan derived from *Spirulina platensis* inhibits HSV-1 attachment to human keratinocytes and protects against herpes labial (Tim Schommartz, HPI)

14:05 Modified polyoma virus capsid proteins as targeted delivery tools (Stefan Schneider, DPZ)

14:25 The use of genetic complementation to identify drug targets, off-targets and resistance genes in kinetoplastid protozoa (Joachim Clos, BNITM)

**Session 2: Pharmaceutical agents - chronic inflammatory disease** (Chair: Alf Hamann, DRFZ)

14:45 Identification of immunoregulators from small molecule libraries and natural sources (Stefan Frischbutter, DRFZ)

15:05 Model driven identification of a therapeutic strategy of hyperammonemia (Ahmed Ghallab, IfADO)

15:25 Found in translation: Soraphen A, a small compound modulating T cell immunity (Luciana Berod, TWINCORE)

15:45 **Coffee-Break**

16:15 **Keynote Lecture Arnd Kieser**  
(Department of Gene Vectors, Helmholtz Zentrum München):  
Screening for inhibitors of the interaction between the LMP1 oncoprotein of Epstein-Barr virus and TRAF proteins

**Session 3: Collections of organisms and natural products** (Chair: Jörg Overmann, DSMZ)

17:00 Novel approaches to access so-far-uncultured bacteria as a source of natural compounds (Javier Pascual, DSMZ)

17:20 Organismic and compound collections at the IPB (Norbert Arnold, IPB)

17:40 Interkingdom communication – a rich source of new natural products (Christine Beemelmans, HKI)

18:00 **Report EU Openscreen**  
(Ronald Frank, FMP)

**Award Ceremony**  
(Chair: Ludger Wessjohann, IPB)

18:30 “Leibniz Drug of the Year”  
Lecture from Laureate

19:00 **Fingerfood, wine and cheese**

## TUESDAY, April 28

9:00 **Keynote Lecture Sheraz Gul**  
(Fraunhofer-IME SP, Hamburg):  
Drug discovery outside the pharmaceutical industry: the Fraunhofer experience

**Session 4: Sustainable production / biotechnology**  
(Chair: Axel Brakhage, HKI)

9:45 Genome mining and discovery of an orphan natural product gene cluster in the human-pathogenic fungus *Aspergillus fumigatus* (Derek Mattern, HKI)

10:05 Predatory amoeba as environmental targets and potential sources of natural products (Falk Hillmann, HKI)

10:25 **Coffee-Break**

11:00 **Keynote Lecture Johannes Kirchmair**  
(Center for Bioinformatics, Uni Hamburg)  
Can computers boost academic drug discovery?"

**Session 5: Bioactive agents – non-medical applications** (Chair: Dietmar Krautwurst, DFA)

11:45 Foods as a source of bioactives – Strategies for unravelling their mechanism of action (Gaby Andersen, DFA)

12:05 Cognitive enhancement by *Rhodiola rosea* in *Drosophila* and honeybees (Brigit Michels, LIN)

12:25 **Lunch**

13:30 **Member Assembly of the Research Alliance**

15:30 **End of Meeting**



How to find the Heinrich Pette Institute...

By car:

- Exit the A7 motorway at the Stellingen exit.
- Follow main roads B433 and B447 towards the center .
- Follow Martinistraße for the front or Süderfeldstraße for the rear entrance of the UKE campus.
- Parking fee UKE underground carpark: 1.50 Euro / hour.
- Parking fee UKE terrain: 3.00 Euro / hour.

By public transport / [www.hvv.de](http://www.hvv.de):

From the airport:

- Express bus line 39 (Rugenburg/Elbgaustraße/Teufelsbrück, Fähre) to Eppendorf Markt.
- Change onto bus line 25 or 20 (Bahnhof Altona) to UK Eppendorf.
- The journey takes approximately 30 minutes.

From the main railway station (Hauptbahnhof):

- Bus line 5 (Nedderfeld/A Burgwedel) at ZOB to Brunsborg.
- The journey takes approximately 25 minutes.

From the Dammtor railway station (Bahnhof Dammtor):

- Bus line 5 (Nedderfeld/A Burgwedel) to Brunsborg.
- The journey takes approximately 15 minutes.