

**3<sup>rd</sup> International Symposium  
of the Collaborative Research  
Center (SFB) 765**

**"Multivalency in Chemistry  
and Biochemistry"**

**October 23 – 24, 2014  
in Berlin/Germany**

**PROGRAM**

## WELCOME

to the third symposium "Multivalency in Chemistry and Biochemistry" of our Collaborative Research Center SFB 765 "Multivalency as chemical organization and action principle: new architectures, functions and applications".

I would like to invite you to interact with colleagues and world-leading pioneers in the exciting field of multivalent research on our campus at Freie Universität Berlin for fruitful discussions and exchange. At the same time our collaborative research center will present some recent results achieved in the last seven years during the first and second funding period.

The symposium will serve as a platform to discuss ideas and concepts in the presented lectures and poster contributions. Our particular aim is to foster a critical evaluation and discussion. This will initiate new ideas, research projects and international collaborations. The Freie Universität Berlin as one of the German Excellence Universities will serve as a prominent historical location on the campus in Dahlem with a high density of scientific activities and industrial collaborations in various research fields and teaching areas. We particularly welcome young researchers at our symposium, which will have a chance to get a more detailed understanding of multivalent interactions and to identify possible applications for multivalent molecules in Chemistry and Biochemistry.

I'm looking forward to seeing you at this exciting event in Berlin,

Rainer Haag

Spokesperson of the SFB 765



FREIE UNIVERSITÄT BERLIN: PHILOLOGICAL LIBRARY

# PROGRAM

THURSDAY, OCTOBER 23, 2014

8:30 **OPENING** (Prof. Rainer Haag, Spokesperson of the SFB 765)

8:45 **Spatiotemporal Control in Supramolecular Polymers Using Multivalency**

Prof. Dr. Bert Meijer, Eindhoven, The Netherlands

9:45 **Design of Multivalent Inhibitors of Virus Entry - What Matters?**

Prof. Dr. Andreas Herrmann, Berlin, Germany

10:30 **COFFEE BREAK**

11:00 **The Multivalent Effect in Glycosidase Inhibition: A New, Fast-emerging Topic in Glycoscience**

Prof. Dr. Philippe Compain, Strasbourg, France

11:45 POSTER PRESENTATION – 10 SHORT LECTURES

12:45 **LUNCH BUFFET (ZIB) & POSTER SESSION**

14:15 **Self-assembly of Hybrid Materials Directed by Light and Magnetic Field**

Prof. Dr. Bart Jan Ravoo, Münster, Germany

15:00 **A Thermodynamic Analysis of Allosteric and Chelate Cooperativity in Multivalent Binding**

Prof. Dr. Christoph Schalley, Berlin, Germany

15:45 **COFFEE BREAK & POSTER SESSION**

17:15 **Chemical Strategies for Probing Cancer Glycomes**

Prof. Dr. Carolyn Bertozzi, Berkeley, CA/USA

18:15 **Multivalent Peptide and Protein-Conjugates**

Prof. Dr. Christian P. R. Hackenberger, Berlin, Germany

19:30 **CONFERENCE DINNER**

# Program

**FRIDAY, OCTOBER 24, 2014**

- 8:30     **Probing Molecular Details of Adhesion and Friction**  
Prof. Dr. Thorsten Hugel, München, Germany
- 9:15     **Characterising Multivalent Protein Interactions with DNA-based Ligand Displays**  
Prof. Dr. Oliver Seitz, Berlin, Germany
- 10:00    **COFFEE BREAK & POSTER SESSION**
- 10:30    **Cellular Functions at Nanoscale Materials**  
Prof. Dr. Joachim P. Spatz, Stuttgart, Germany
- 11:30    **Glycodendritic Structures: Interesting Tools in Chemical Biology**  
Dr. F. Javier Rojo, Seville, Spain
- 12:15    **LUNCH BUFFET (ZIB) & POSTER SESSION**
- 13:45    **From Multivalent to Polyvalent Interactions: Simulation Approaches**  
Prof. Dr. Roland Netz, Berlin, Germany
- 14:30    **Designer DNA Nano-architectures to Regulate Biomolecular Interactions**  
Prof. Dr. Hao Yan, Phoenix, AZ/USA
- 15:15    **POSTER PRIZES & CLOSING REMARKS** (Prof. Rainer Haag)

# INFORMATION

## REGISTRATION

Extended deadline for registration: 31<sup>st</sup> of August 2014.

For registration please send an email to [3insy@sfb765.de](mailto:3insy@sfb765.de) with your full name, institution, current address and email. Please note, if you want to present a poster.

## POSTER SESSION

A poster session will be organized during the symposium. Poster installation on Thursday, 8:00 – 8:30. The poster session takes place in the foyer (ground and 2<sup>nd</sup> floor). Poster format: portrait A0. The best posters will be awarded.

Please provide the following information to [3insy@sfb765.de](mailto:3insy@sfb765.de) by August 31<sup>st</sup>, 2014 (deadline): presenter name/corresponding person, title of the poster and affiliation. A poster abstract (1 page) is obligatory. No revisions or corrections will be made by the scientific committee.

Ten poster authors (PhDs/postdocs) are invited by the symposium's scientific committee to present their contribution in rapid poster talks (five min. each).

## TRAVEL GRANTS

Ten travel grants are available for PhDs/postdocs (up to 2<sup>nd</sup> year for postdocs) contributing with a poster and short lecture. Applications with CV and reference letter are requested by August 31<sup>st</sup>, 2014 (deadline).

## POSTER AWARD

Prizes will be awarded to the three best posters.

## LUNCH / COFFEE BREAKS

Lunch, dinner and refreshments at coffee breaks are free for the participants.



# Information

## TRAVEL INFORMATION

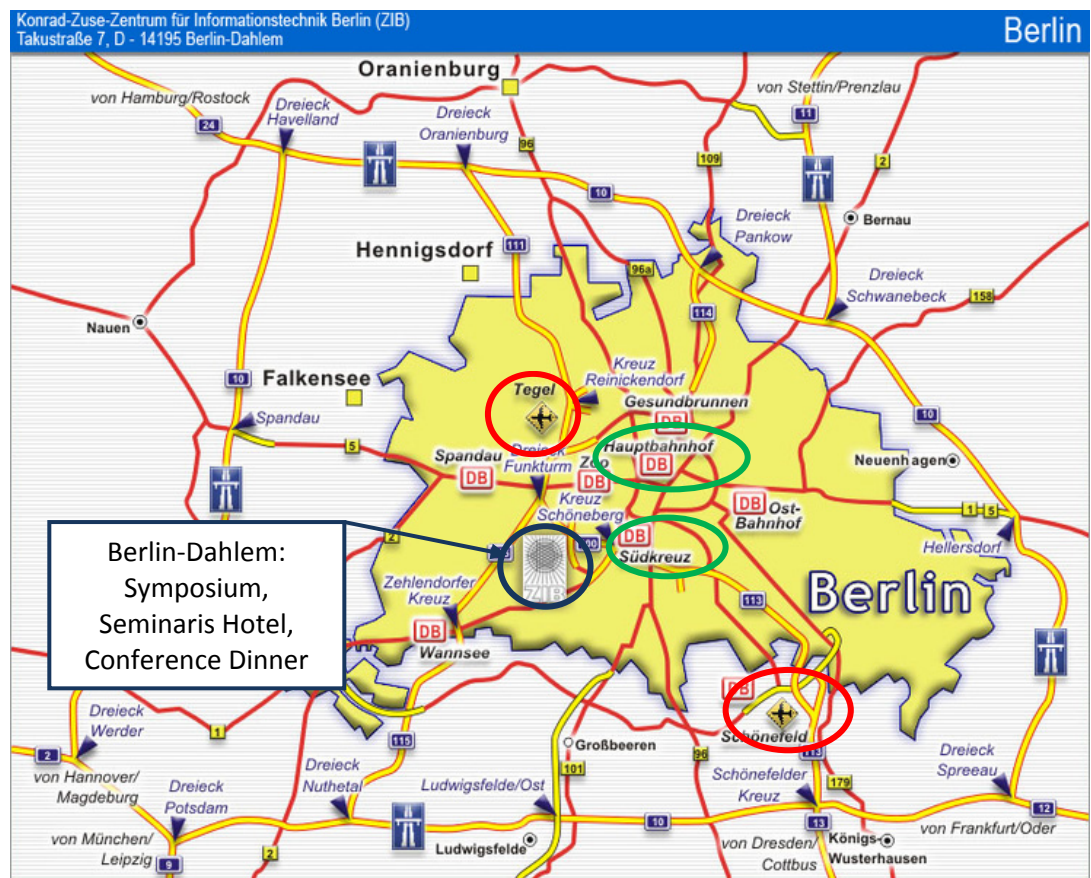
Berlin served by low-cost and major airlines through Berlin-Tegel and Berlin-Schönefeld airports. The transit from Berlin airports to the center of Berlin and the conference venue is realized by frequent and reliable bus connections.

Alternatively, there are frequent high speed train connections from all directions (including Frankfurt, Hamburg or Düsseldorf airports) to Berlin.

Detailed travel information how to reach the university campus and city center are added on our website ([www.sfb765.de/3INSY/travel/index.html](http://www.sfb765.de/3INSY/travel/index.html)) and are regularly updated.

When moving around Berlin we recommend the use of the public transport system for which pre-booking is not needed. Taxi cabs can be ordered in the Berlin area via this general number: +49-30-202020.

## BERLIN: AIRPORTS (red), STATIONS (green) AND HIGHWAYS



# Information

## INFORMATION FOR LECTURERS

For your lecture we will provide a PC/laptop (Windows, PowerPoint 2010) and beamer. Wireless LAN will be available for all participants.

## SYMPOSIUM VENUE

The symposium will take place at the  
Zuse-Institute Berlin (ZIB)  
Takustrasse 7  
14195 Berlin/Germany

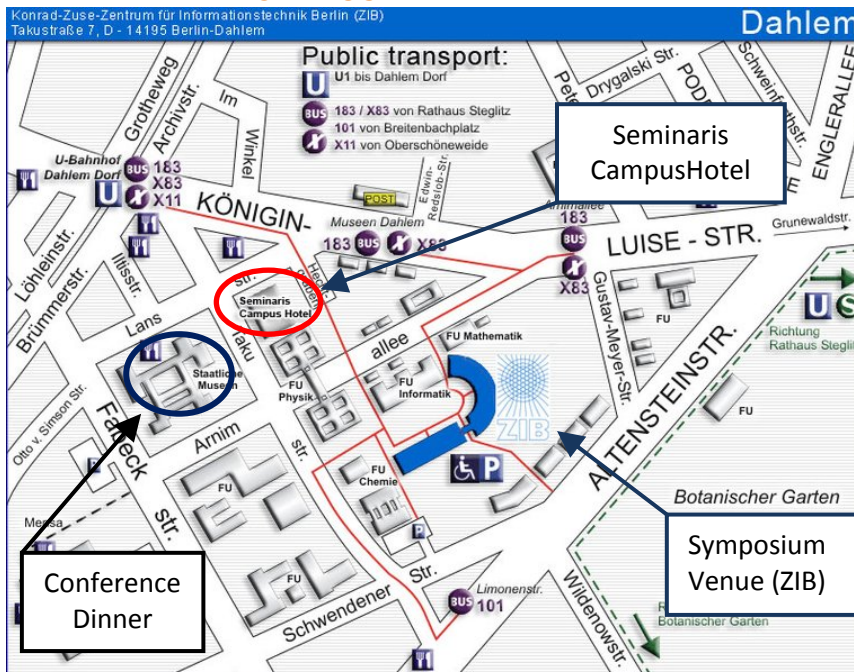


Website: <http://www.zib.de/en/>

Subway stop: Dahlem Dorf

Lecture hall and foyer are both on ground floor.

## BERLIN-DAHLEM CAMPUS MAP:



# Information

## VISA

If you are a non-EU resident you might need a visa. Please see our symposium's website for links and information.

## CONFERENCE DINNER

Ethnologisches Museum  
Arnimallee 25  
14195 Berlin/Germany

Tel. +49-30-266424242  
[www.smb.museum/en](http://www.smb.museum/en)

## ACCOMMODATION

Seminaris CampusHotel Berlin  
Science & Conference Center  
Takustrasse 39  
14195 Berlin/Germany

Tel. +49-30-557797-0  
[berlin@seminaris.de](mailto:berlin@seminaris.de)  
<http://www.seminaris.de/berlin>



The SFB only can reimburse travelling and accommodation costs for invited lecturers, all other participants have to reserve and pay themselves. We recommend to book your hotel as soon as possible. Please see our symposiums website for several linked booking possibilities.



# Information

## SCIENTIFIC AND LOCAL ORGANIZING COMMITTEE

Rainer Haag	Freie Universität Berlin
Christian Hackenberger	FMP Berlin and Humboldt-Universität Berlin
Beate Paulus	Freie Universität Berlin
Jürgen Rabe	Humboldt-Universität Berlin
Christoph Schalley	Freie Universität Berlin
Oliver Seitz	Humboldt-Universität Berlin

Information about the scientific program:

Prof. Dr. Rainer Haag  
Institute for Chemistry and Biochemistry  
Freie Universität Berlin  
Takustrasse 3  
D-14195 Berlin  
Phone +49-30-838-53358  
Fax +49-30-838-53357  
Email [rainer.haag@chemie.fu-berlin.de](mailto:rainer.haag@chemie.fu-berlin.de)

Information about the local organization:

Dr. Carlo Fasting/ Dr. Wiebke Fischer  
Institute for Chemistry and Biochemistry  
Freie Universität Berlin  
Takustrasse 3  
D-14195 Berlin  
Phone +49-30-838-52788/ -72681  
Fax +49-30-838-453547  
Email [conference@sfb765.de](mailto:conference@sfb765.de)  
Website: [www.sfb765.de/3INSY](http://www.sfb765.de/3INSY)

## FUNDING

The logo of the German Research Foundation (DFG) consists of the letters 'DFG' in a bold, blue, sans-serif font.

German Research Foundation

Freie Universität  Berlin



# Information

## PARTICIPATING INSTITUTIONS



FREIE UNIVERSITÄT BERLIN



HUMBOLDT-UNIVERSITÄT ZU BERLIN



TECHNISCHE UNIVERSITÄT BERLIN



LEIBNIZ-INSITUT FÜR MOLEKULARE  
PHARMAKOLOGIE



ZUSE-INSITUT BERLIN



CHARITÉ –  
UNIVERSITÄTSMEDIZIN BERLIN

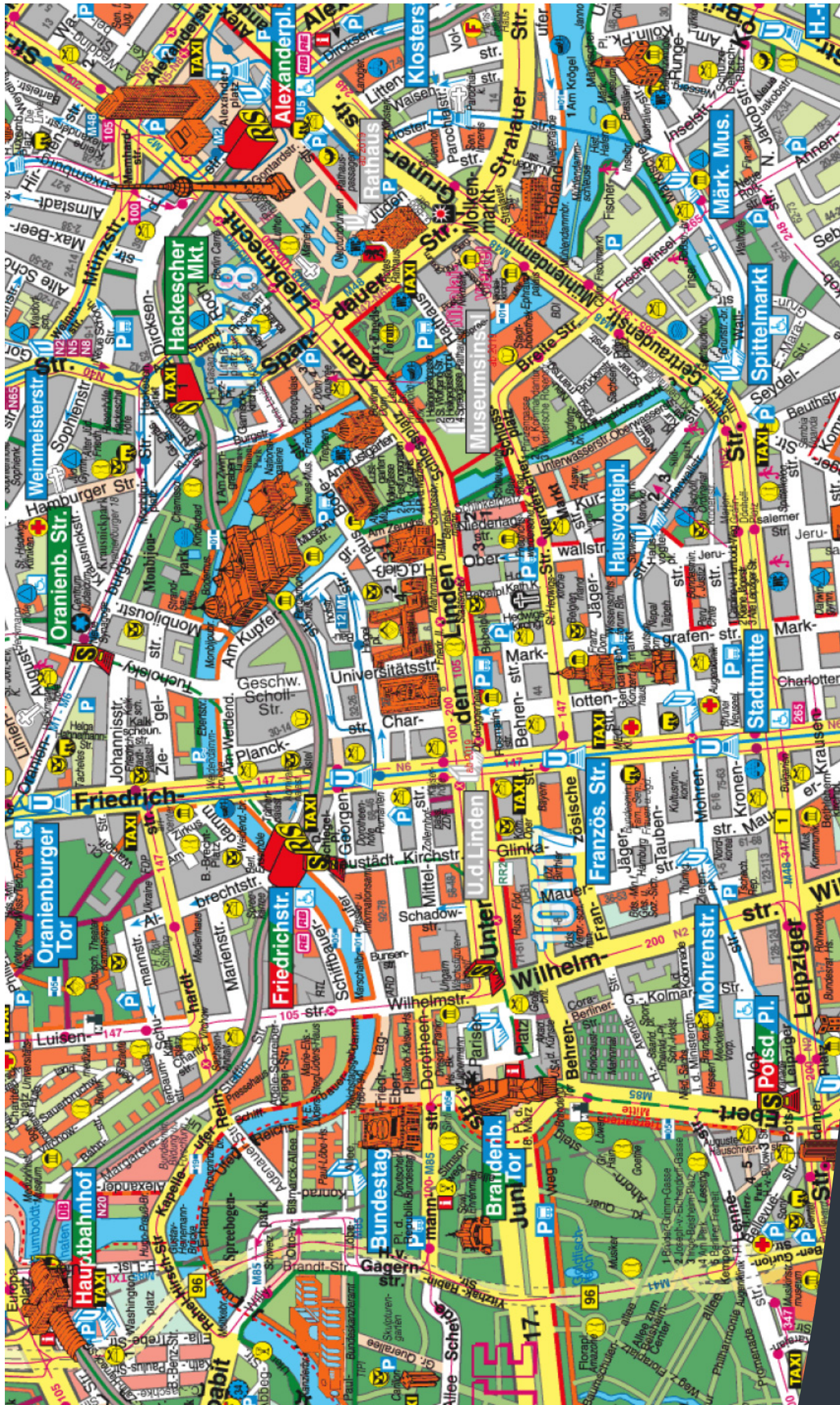


MAX-PLANCK-GESELLSCHAFT

MAX-PLANCK-INSTITUT FÜR KOLLOID-  
UND GRENZFLÄCHENFORSCHUNG



# Berlin City Map





## CONTACT

### **SFB 765 office**

Katharina Tebel  
Institut für Chemie und Biochemie  
Freie Universität Berlin  
Takustrasse 3  
14195 Berlin  
GERMANY

phone: +49-30-838-53547

fax: +49-30-838-453547

email: [office@sfb765.de](mailto:office@sfb765.de)

internet: [www.sfb765.de](http://www.sfb765.de)

During the symposium the SFB office will be located in the foyer in front of the lecture hall.  
mobile phone: +49 170-2076944 (K. Tebel)

## IMPRESSUM

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### **Geschäftsstelle**

Takustrasse 3  
14195 Berlin  
Tel.: +49-30-838-53547  
Fax: +49-30-838-453547  
[www.sfb765.de](http://www.sfb765.de)