



Scientific Program

The detailed Scientific Program will be available in the second announcement. Further information and updates will be made available at the website www.biosupramol.de.

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Venue

Freie Universität Berlin
Institute for Chemistry and Biochemistry
Organic Chemistry
Takustr. 3, Lecture Hall

Local Organization

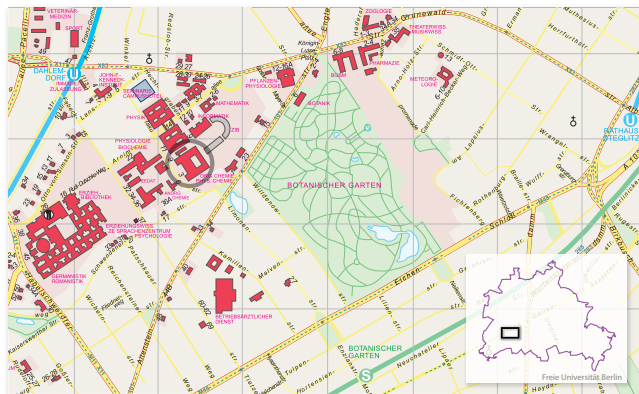
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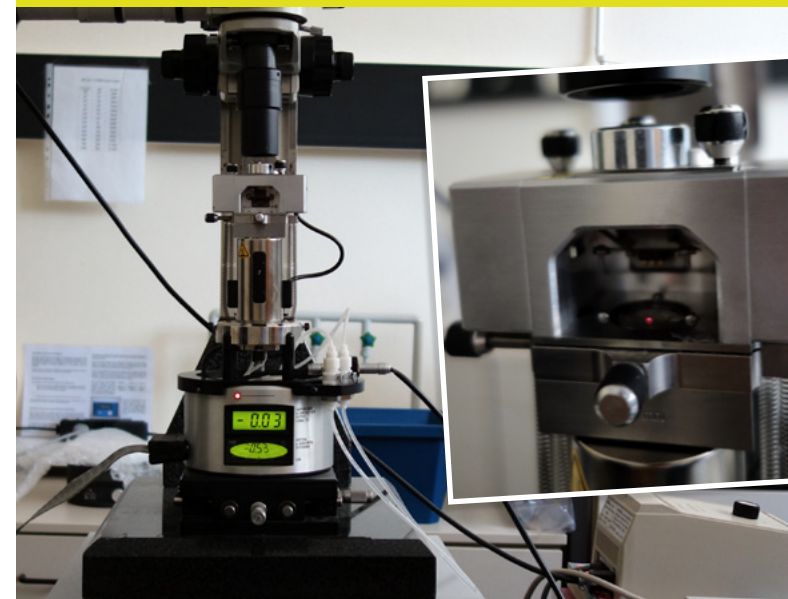
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Flyer Design: Achim Wiedekind

Core Facility BioSupraMol Biointerfaces and Surface Characterization

Summer School | September 17-18, 2015



Summer School 2015

Biointerfaces and Surface Characterization

The Core Facility kindly invites you to join the Summer School 2015 on “Biointerfaces and surface characterization”.

The 2-day course focuses on the analysis of biointerphases and biochemical surfaces by modern techniques.

Due to its relevance to the chemical, pharmaceutical, biomedical fields fundamental and applied research on interfacial phenomena related to systems of biological origin has experienced an enormous boom in the last few years. Linked to this is an increasing demand for better methods of surface characterization. The BioSupraMol Summer School 2015 will give an overview about the latest developments.

Starting from an introduction to the topic of biointerfaces we will present an overview of different methods of surface characterization including experimental methods such as XPS, AFM, surface IR, SPR, MALDI-Imaging, QCM, TOF-SIMS, superresolution microscopy, X-ray scattering followed by an introduction to modern theoretical concepts. Examples of state-of-the art applications will also be given.

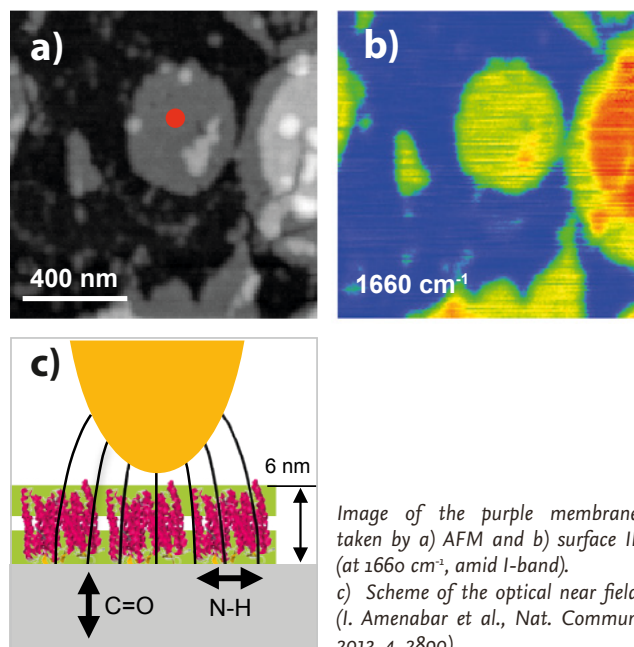


Image of the purple membrane, taken by a) AFM and b) surface IR (at 1660 cm⁻¹, amid I-band). c) Scheme of the optical near field. (I. Amenabar et al., Nat. Commun. 2013, 4, 2890)

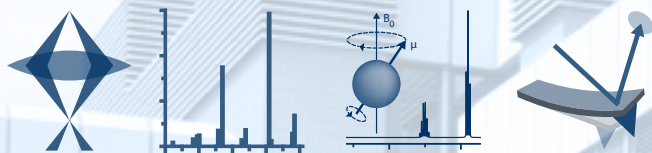
Course participants will be accepted based on their written application. The number of participants is limited to 60. Lunch and Dinner is included upon registration.

September 17 – 18, 2015
Freie Universität Berlin
Berlin-Dahlem, Germany

Registration deadline: July 31, 2015
www.biosupramol.de

Speakers

- **Jürgen Rühle** | Universität Freiburg
biointerfaces
- **Axel Rosenhahn** | Ruhr-Universität Bochum
XPS, ellipsometry
- **Andreas Fery** | Universität Bayreuth
AFM
- **Kenichi Ataka** | Freie Universität Berlin
surface IR
- **Nico de Mol** | Utrecht University
SPR
- **Andreas Römpp** | Universität Gießen
MALDI-imaging
- **Christof Wöll** | KIT
QCM, TOF-SIMS
- **Fredrik Höök** | Chalmers Univ. Gothenburg
QCM, microfluidics
- **Helge Ewers** | Freie Universität Berlin
TIRF
- **Gerald Brezesinski** | MPI-KG Potsdam
X-ray diffraction
- **Roland Steitz** | Helmholtz-Zentrum Berlin
neutron reflectometry
- **Roland Netz** | Freie Universität Berlin
computer simulation



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