

2nd International Workshop – 18 September 2003

Scanning Probe Microscopy in Life Sciences

Registration fee*: 90 Euro
 (must be received until 45 Euro (students)
15 September 2003 - 60 Euro (poster presenters)
extended) 30 Euro (student poster presenters)
 * incl. VAT / MwSt

Deadline for cancellation
 and registration fee refunding: 04 September 2003

Title / Name

Organization / Company

Department / Position

Address

ZIP Code / City

State / Country

Telephone

Fax

E-mailStudent yes no

(proof of student status required)

Do you want to submit a poster? **Registration closed** yes no

Title

Deadline for poster abstract submission: 01 September 2003

Please mail or fax the registration form to:

Ms. Zsuzsa Konczos

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Fax.: +49 (0)30 5331 1202

E-mail: konczos@jpk.com

www.spm-workshop.jpk.com

JPK Instruments AG

Bouchéstrasse 12

12435 Berlin, Germany

www.jpk.com

Workshop location

University Clinic Charité

Campus Virchow-Klinikum, Mittelallee 10, Hörsaal / Lecture Hall 6

Medical Faculty of the Humboldt University at Berlin

Augustenburger Platz 1

13353 Berlin, Germany



INSTRUMENTS Nanotechnology for Life Science

Charité



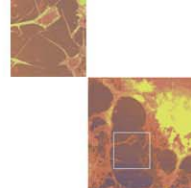
2nd International Workshop – 18 September 2003 in Berlin

Scanning Probe Microscopy**in Life Sciences**

Scanning Probe Microscopy in Life Sciences

Organizing Committee

Dr. Andreas Jordan – Center of Biomedical Nanotechnology & Dpt. of Radiation Oncology/CVK, University Clinic Charité, Berlin
 Torsten Jähnke – JPK Instruments AG, Berlin



- 9:00 am **Opening**
 Dr. Andreas Jordan – University Clinic Charité, Berlin
- 9:10 am **Nanomechanics: Opening New Frontiers in Biosensing and Diagnostics**
 Prof. Dr. Christoph Gerber – Institute of Physics, University of Basel and IBM Research Laboratory, Rüschlikon
- 9:50 am *Coffee break and poster session*
- 10:50 am **Secretion of von Willebrand Factor Measured and Imaged in Human Endothelial Cells**
 PD Dr. med. Stefan W. Schneider – Clinic and Polyclinic for Skin Diseases, Münster
- 11:30 am **Characterizing Cell Membranes across Dimensions: From Single Molecule Experiments to Living Cells**
 Prof. Dr. Daniel J. Müller – Biotechnical Center of the Tech. Univ. Dresden and MPI of Molec. Cell Biology and Genetics, Dresden
- 12:10 am *Lunch and poster session*
- 2:00 pm **Bioterror and Diagnostic Electron Microscopy / AFM**
 Dr. Hans R. Gelderblom – Robert Koch Institute, Berlin
- 2:40 pm **The Effect of Lipid Depletion on Microvilli Formation in MDCK Cells, Visualized by Atomic Force Microscopy**
 Dr. Kate Poole – MPI of Molecular Cell Biology and Genetics, Dresden
- 3:20 pm *Coffee break and poster session*
- 4:20 pm **Single Molecule AFM Experiments in NanoBiology: Structure, Mechanics, Kinetics and Application**
 Prof. Dr. Dario Anselmetti – Experimental Biophysics & Applied Nanoscience, Bielefeld University
- 5:00 pm **Probing Mechanosensory Ion Channels in Cochlear Hair Cells by AFM**
 Stefan Fink – Hearing Research Center, Tübingen
- 5:40 pm **Closing**
 Torsten Jähnke – JPK Instruments AG, Berlin

The abstracts are available on www.spm-workshop.jpk.com.

Invitation and ...

For the second time JPK Instruments will hold the international workshop "Scanning Probe Microscopy in Life Sciences" together with the University Clinic Charité in Berlin.

More than 80 scientists attended this workshop last year and listened to the talks covering the application of scanning probe microscopy (SPM) to areas such as biochemical and medical research.

Following the request of many last year's attendees this time the workshop will be accompanied by a poster session and a presentation of JPK's NanoWizard™ AFM during the breaks.

We are looking forward to seeing you in Berlin. Students as well as advanced researchers are welcome.

... Call for Posters

You are welcome to submit posters with topics concerning

- SPM measurements on biological or medical materials
- special preparation techniques of biomaterials for SPM measurements
- special SPM instrumentation for life science applications
- comparison of SPM with other common methods in life sciences such as SEM / TEM
- nano manipulation and spectroscopy on biomolecules.

The abstracts should not exceed one DIN A4 page (Times New Roman, 12pt, MS Word file) and should be submitted electronically to konczos@jpk.com until **01 September**.

They will be published in the workshop booklet distributed on site during the workshop and will be available as secured PDF-files for download from the workshop web site.