

**4th International Workshop – 13 October 2005**  
**Scanning Probe Microscopy in Life Sciences**

Registration fee\*: 90 Euro / 45 Euro (students)  
 Poster presenters: 60 Euro / 30 Euro (students)  
 \* incl. VAT / MwSt  
 Early registration discount: 10%, until 16 August 2005

**Deadline for registration and registration fee receipt: 29 September 2005**

\_\_\_\_\_  
 Name and Title

\_\_\_\_\_  
 Organisation or Company

\_\_\_\_\_  
 Department and Position

\_\_\_\_\_  
 Address

\_\_\_\_\_  
 ZIP Code and City

\_\_\_\_\_  
 State and Country

\_\_\_\_\_  
 Telephone

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 Fax

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 E-mail

Student  yes  no

(proof of student status required)

Do you want to submit a poster?  yes  no

\_\_\_\_\_  
 Title

**Deadline for poster abstract submission: 29 September 2005**

Please mail or fax the registration form to:

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Fax: +49 (0)30 5331 22555	12435 Berlin, Germany
E-mail: <a href="mailto:konczos@jpk.com">konczos@jpk.com</a>	<a href="http://www.jpk.com">www.jpk.com</a>
<b><a href="http://www.spm-workshop.jpk.com">www.spm-workshop.jpk.com</a></b>	

**Workshop location**

Charité - Universitätsmedizin Berlin  
 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



4th International Workshop – 13 October 2005 in Berlin

**Scanning Probe Microscopy**  
**in Life Sciences**



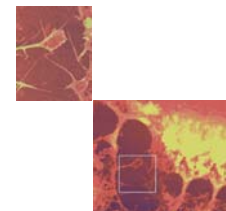
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 2005



## 4th International Workshop – 13 October 2005 Scanning Probe Microscopy in Life Sciences

### Organizing Committee

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



- 9:00 am **Opening**  
Dr. Andreas Jordan – Charité, University Medicine Berlin
- 9:10 am **Single Molecule Recognition Atomic Force Microscopy**  
Prof. Dr. Peter Hinterdorfer – Institute for Biophysics, University of Linz, Austria
- 9:50 am **Combining AFM with Fluorescence Correlation Spectroscopy (FCS) on Model Membrane Systems**  
Prof. Dr. Petra Schwille – BIOTEC, Technological University Dresden
- 10:30 am **Coffee break and poster session**
- 11:00 am **Atomic Force Microscopy: A Powerful Tool in Structural Biology**  
Dr. Dimitrios Fotiadis – Biozentrum, University of Basel, CH
- 11:40 am **A Cell Biologists Entrée for AFM**  
Prof. Dr. Michael Horton – Bone and Mineral Centre, University College of London, UK
- 12:20 pm **Lunch and poster session**
- 2:00 pm **Pressure in Endothelial Cells Measured with AFM**  
Prof. Dr. Hans Oberleithner – Institute for Physiology, Westfälische Wilhelms University Münster
- 2:40 pm **Cellular Adhesion Forces on Molecularly Defined Nano-structured and Biofunctionalised Surfaces**  
Prof. Dr. Joachim P. Spatz – Department of Biophysical Chemistry, Heidelberg University
- 3:20 pm **Coffee break and poster session**
- 4:00 pm **Supported Lipid Bilayers Prepared by Solution Spreading: in Situ Investigation with Atomic Force Microscopy**  
Prof. Dr. Horst Niehus – Atomic Collisions and Surface Physics, Humboldt University at Berlin
- 4:40 pm **Poster Award and Closing**  
Torsten Jähnke – JPK Instruments AG, Berlin

Please visit [www.spm-workshop.jpk.com](http://www.spm-workshop.jpk.com) for the abstracts.

## Invitation and ...

For the fourth time JPK Instruments will hold the international workshop "Scanning Probe Microscopy in Life Sciences" together with the 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.

The workshop will be accompanied by a poster session and presentation of JPK's NanoWizard® AFM during the breaks.

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

## ... Call for Posters

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As last year the posters will be judged by a scientific jury. The author of the best poster will be awarded.

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](mailto:konczos@jpk.com) until **29 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.