PRESS RELEASE

JPK release Petri dish heater for live cell imaging experiments

Berlin*, 26th August 2008* - JPK announces the new petri dish heater solution for live cell imaging using NanoWizard BioAFM and the CellHesion® product lines.

It has always been a challenge to develop a dimensionally stable thermal capability for AFM when using plastic components. However, the use of plastics is very much the standard in cell biology with the benefit of being disposable. JPK has overcome this with special mechanical adapters and an intelligent drift compensated design. Plastic and glass-bottomed 35mm diameter Petri dishes from standard suppliers such as BD, Corning and Wilco can be used.

The new heater system is fully compatible with JPK's range of NanoWizard® AFM and CellHesion® systems. This means all the standard imaging and measurement techniques may be applied at temperatures up to 60°C with 0.1°C precision. These include fluorescence, transmission illumination, AFM imaging and cell mechanics study. The system also offers perfusion control employing standard syringe pumps and gas flow of carbon dioxide possible for long term cell studies. Glass bottomed dishes are important for high numerical aperture fluorescence experiments such as confocal laser scanning used in combination with AFM.

Visit www.jpk.com and see the range of instrumentation available today.

Attachment:

JPK's Petri dish heater mounted on a Zeiss microscope for live cell imaging studies

About JPK Instruments:

JPK Instruments AG is one of the world's leading manufacturers of nanoanalytic instruments - particularly atomic force microscope (AFM) systems and optical tweezers- for research in life sciences and soft matter.

JPK was recognized as Germany's fastest growing nanotechnology company in 2007 (Deloitte) and this was demonstrated by the foresight to purchase companies such as lpi and nAmbition enabling rapid time to market for new products such as optical tweezers and automated force spectroscopy systems. From its earliest days applying atomic force microscope (AFM) systems, JPK has recognized the opportunities provided by nanotechnology for application from biophysical to biomedical research, tailoring its instrument platforms to meet user requirements.

Headquartered in Berlin and with operations in Dresden, Cambridge (UK) and Singapore, JPK maintains a global network of distributors and support centers and provides on the spot applications and service support to an ever-growing community of researchers.

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