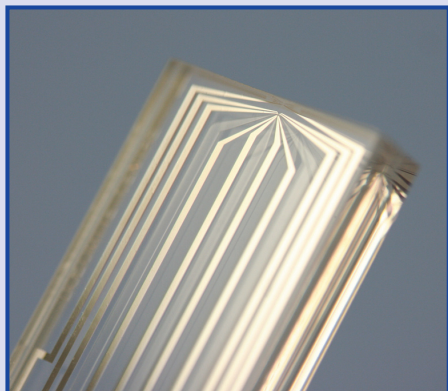


New Products



Microfluidics Chip Functionality

Dolomite now offers the ability to integrate metal electrodes into its range of glass and polymer microfluidic chips. A wide variety of geometries can be achieved, such as interdigitated electrodes, heaters, and temperature sensors. Applications include impedance detection, temperature control in microreactors, and generation of electrical fields for dielectrophoresis. With its excellent chemical-resistant and heat-resistant properties, platinum is most frequently used as an electrode material, but a wide range of metals can be deposited onto the microfluidic glass or polymer chips, including gold, copper, titanium, and chrome. Metal feature size can be as small as 2 μm . Metal layers can also be deposited on the inside surface of the microchannels.

Dolomite

For information +44-1763-242491
www.dolomite-microfluidics.com

Desktop Nanofabrication

The next generation Dip Pen Nanolithography (DPN) system, the DPN 5000, brings greater control and performance to desktop nanofabrication. The DPN 5000 offers versatile nanopatterning capabilities coupled with high-performance atomic force microscopy imaging for immediate characterization of the deposited patterns. System highlights include an ultralow-noise scanner with closed-loop flexure technology to produce accurate and repeatable nanoscale patterns. For subsequent imaging of substrates, a low-coherence laser with a reduced laser spot size ensures high-quality lateral-force imaging. Enhanced lithography software, InkCAD 4.0, includes improved control of tip-based patterning, along with nanoscale mapping and positioning, allowing users to precisely position multiple features, even those created from different materials.

NanoInk

For information 847-679-6266
www.nanoink.net

Sperm Freezing Kit

The JAX Sperm Cryo Kit provides a reliable and cost-effective method of cryopreserving the sperm of novel mouse models. Researchers can preserve the sperm in their own laboratories, while still enjoying the benefit of having The Jackson Laboratory perform quality control testing and provide long-term storage. The kit contains all the necessary items, including collection dishes, straws and cassettes, freezing apparatus, cryo-protective media, and a detailed instruction manual. It even includes extra reagents and plasticware to perform a practice run. The Jackson Laboratory will perform a quality control test on one sperm sample from each strain to assess fertility and report the results back.

The Jackson Laboratory

For information 800-422-6423
www.jax.org/jaxservices

Confocal FRAP Imaging

The VT-HAWK combines high precision point-scanning fluorescence recovery after photobleaching (FRAP) with multibeam confocal imaging. The instrument's ability to switch between imaging and photo-bleach modes in seconds enables accurate quantitation of fluorescence intensity dynamics in precise, user-defined regions of the image. VT-HAWK supports FRAP, fluorescence loss in photo-

bleaching, photo-activation, and photo-conversion techniques with selectable pinhole sizes for confocal imaging. The instrument's optics deliver optimal laser beam quality at the sample without compromising the performance of either mode. Options include a laser-merge module that houses up to six solid-state lasers.

VisiTech International

For information +44-(0)-191-5166255
www.visitech.co.uk

Metabolite Database

The Symyx Metabolite database, a comprehensive collection of drug metabolism data, is now available to pharmaceutical, agrochemical, and biotechnology researchers via the Symyx ISENTRIS data access, analysis, and decision support system, as well as the web-based DiscoveryGate content platform. The database can accelerate research and development productivity by making it possible for scientists to focus on the most therapeutically promising compounds (those with the right metabolic profile) early in the discovery process. Scientists can use Symyx Metabolite's structure-searchable metabolic schemes, biotransformation explorer, and easy-to-use query and browse tools to explore the fate of parent compounds, their metabolites, and properties by leveraging in-house and Symyx database information.

Symyx Technologies

For information +44-208-546-0869
www.symyx.com

Electrophoresis Software

Spresso is free, open-source software for electrophoresis that can ease experimental design and troubleshooting. The software provides a new tool for designing and optimizing complex electrophoresis problems. The designers say that the software is 75 times faster than current tools thanks to unique numerical algorithms. The speed can mean the difference between waiting overnight to get a result and getting it in a few minutes. Spresso allows scientists to iterate through experimental variations much faster than they could by going into the lab and relying on trial and error.

Stanford School of Engineering

For information 650-736-2245
microfluidics.stanford.edu/spresso/2008/09/introducing-spresso.html

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