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System for Process Variation Monitor A method to extend the process monitoring capabilities of a semiconductor wafer optical inspection system..... Relevance: 100

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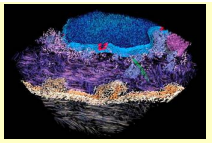

What makes skin strong? Velcro-like cells [microscopy] [Biology] Electron microscopy normally requires tissue to be treated with chemicals or coated in metal, a procedure that disturbs the natural state of a sample. ... Scientists have gotten their best look ever at interactions inside skin cells... Relevance: 34

Lymphatic reprogramming of microvascular endothelial cells by CEA-related cell adhesion molecule-1 via interaction with VEGFR-3 and Prox1 [microscope] [Biotechnology] [camera] [lenses] [Opticon] The cells were controlled daily and photographed via a phase contrast microscope equipped with a digital camera (Zeiss, Jena, Germany). ... Furthermore, CEACAM1- versus luciferase-silenced HDMECs were treated with VEGF-A (VEGF 165), VEGF-C, and VEGF-D (R&D Systems) at a concentration of 50 ng/mL. ... Relevance: 51

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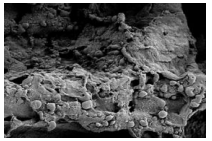
FGFR-1 regulates angiogenesis through cytokines interleukin-4 and pleiotrophin [microscopy] [BIOLOGY] [balance] Transmission electron microscopy of the Fgfr-1 -/- teratomas showed a compact and voluminous but functional endothelium, which anastomosed with the host circulation. ... 1 Department of Genetics and Pathology, Uppsala University, The Rudbeck Laboratory, Uppsala, Sweden... Relevance: 7

A novel mitosis-specific dynamic actin structure in Dictyostelium cells [microscopy] [Biology] Interference reflection microscopy and assays blowing away the cell bodies by jet streaming showed that MiDASes were major attachment sites of dividing cells. ... Department of Biology, Faculty of Science, Yamaguchi University, Yamaguchi 753-8512, Japan... Relevance: 9

Advances in fluorescent protein technology [microscopy] [Biology] [Optical] Meanwhile, photoactivatable FPs are emerging as a powerful class of probes for intracellular dynamics and, unexpectedly, as useful tools for the development of superresolution microscopy applications. ... 3 National High Magnetic Field Laboratory and Department of Biological Science, The Florida State University, Tallahassee, FL 32310, USA... Relevance: 28

Researcher develops realistic cancer growth models [microscope] [scanning electron] [biology] A scanning electron microscope image of a cell-seeded PLG scaffold. ... Researcher develops realistic cancer growth models... Relevance: 66

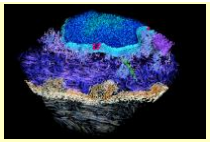


Helical -Synuclein Forms Highly Conductive Ion Channels [microscope] [spectroscopy] [chromatography] [Biology] [spectropolarimeter] Excitation of fluoresence utilized a Nd:YAG solid-state laser with a 532 nm beam attached to an Olympus IMT-2 epifluorescent inverted microscope equipped with a 40×, NA 1.2 water immersion objective (Carl Zeiss, Jena, Germany). ... Departments of Biological Sciences and Medicinal Chemistry and Molecular Pharmacology, Purdue University, West Lafayette, Indiana 47907-2054, Institute of Basic Biological Problems, Russian Academy of Sciences, Puschino, Moscow Region 140290, Russian Federation, and A. ... Relevance: 44

[Structural snapshot shows monster protein] [microscopy] The team, led by David Eisenberg and Leonard Rome of the University of California, Los Angeles, used a combination of cryo-electron microscopy and protein crystallography to build up a picture of the particle. ... The researchers who produced the draft structure of the protein suggest that the container could find use as a drug delivery vehicle, improving on viral carriers that can potentially trigger the body's immune response.... Relevance: 37

[Industry news in brief - week 49] [microscope] [biology] [instrument] The Multiscan AFP uses multiple, specialized atomic force microscope heads to locate a failing transistor and contact extremely close-spaced terminals. ... 05/12/2007 - LabTechnologist.com brings you its periodic round up of industry news, with developments at Agilent, Beckman Coulter, Biolytix, Knome, Millipore, Nanogen and Qiagen.... Relevance: 31

[Virtual 3D nanorobots could lead to real cancer-fighting technology] [biosensors] [chemical] Also, the use of both chemical and thermal biosensors greatly improved the nanorobots efficiency compared with random motion. ... The software NCD (nanorobot control design) is a system implemented to serve as a test bed for nanorobot 3D prototyping, Cavalcanti, CEO of the Center for Automation in Nanobiotech and researcher at Monash University in Melbourne, told... Relevance: 48



[The closest look ever at native human tissue] [microscope] [Biology] A powerful microscope technique reveals the molecular organization of skin ... Using an advanced microscopy technique called cryo-electron tomography, researchers from the European Molecular Biology Laboratory [EMBL] have visualised proteins responsible for cell-cell contacts for the first time. ... Relevance: 43

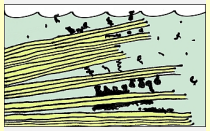
A pain-free window into painful neuropathies [microscopy] [monitor] [monitoring] The team showed that reflectance confocal microscopy, a technology for looking just beneath the surface of the skin, can be used to see and count the number of the structures in a persons fingers and hands. ... Scientists have demonstrated a new technique for detecting a painful nerve condition known as neuropathy, which affects millions of people with diabetes and many other patients as well.... Relevance: 48

Latest Supply Chain Research Suggests Carbon Labeling Should Now be on Everyone's Radar [microscope] Supply chain leaders need to keep abreast of this work and understand the intricacies of carbon labeling before their products come under the microscope." ... Latest Supply Chain Research Suggests Carbon Labeling Should Now be on Everyone's Radar... Relevance: 34

Asylum's Piezo Force Module enables electromechanical measurements at the nanoscale [microscope] [spectroscopy] The module is available exclusively for the company's MFP-3D atomic force microscope. ... Asylum Research is collaborating with Oak Ridge National Laboratory (Materials Science and Technology Division and Center for Nanophase Materials Sciences) to conduct pioneering research on PFM. ... Relevance: 33

Carl Zeiss's new CENTRA 100 TEM offers high-resolution and high-contrast modes [microscope] [Biology] [instrument] [lens] The CENTRA 100 transmission electron microscope. ... It promises ease of use and fast specimen exchange capability, making the microscope particularly well suited for biomedical or clinical laboratory environments.... Relevance: 31

Agilent, Multiprobe get together for Asia sales [microscope] [analyzer] The Multiscan AFP uses multiple, specialized atomic force microscope heads to locate a failing transistor and contact extremely close-spaced terminals. ... Its software allows the user to place probes easily, making previously expensive, time-consuming measurements routine, the company said in a news release.... Relevance: 5



Did Life Originate in a Mica Sandwich Sitting in Primordial Soup? [microscopy] [Biology] [chemical] Hansma's passion for mica dates back to the 1980s, when she began her NSF-funded work developing pioneering techniques in biological atomic force microscopy (AFM), an imaging technique. ... The so called "soup and sandwich" mica hypothesis, which was developed by Helen Hansma of the National Science Foundation (NSF), proposes that that the compartments between layers of mica -- a common mineral that cleaves into smooth sheets -- could have provided the shelter and protection needed for molecules to reorganize into cells.... Relevance: 53

Low-Light Detection With Silicon Geiger-Mode Photodiodes [microscopy] [detectors] As an analog device, Silicon Photomultiplier (SPM) detectors now rival the performance of PMT detectors and have applications in numerous fields including homeland security, nuclear medical imaging, high-energy physics, and microscopy. ... Stewart, Design Engineer, SensL... Relevance: 5

Suggesting New Ways To Break The Giardia Parasite's Grip [microscopy] [Biology] Using video microscopy, the researchers challenged Giardia attached to different surfaces with conditions of low and high tonicity. ... At the American Society for Cell Biology annual meeting, University of California, Berkeley researchers present evidence that Giardia uses an osmotic "suction cup" to hang on, a discovery that could make attachment a prime target for new treatments of Giardia infections.... Relevance: 19

New cancer diagnostic tool developed [microscope] [optical] In the new procedure, researchers employed a nanotechnology atomic force microscope to measure cell softness by using a minute, sharp tip on a spring to push against the cell surface and determine the degree of softness without bursting the cell. ... New cancer diagnostic tool developed... Relevance: 57

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