

IndustryNews

ioLight Portable Microscopes in Sustainable Farming



ioLight, creator of the pocket-size foldable microscope, provides high-resolution portable microscopes and shared technology that can advance food productivity and enable diagnosis of diseases. Typically, only the largest farms have access to on-site labs, so for many, diagnosis means disease

samples must be collected by a veterinarian and sent to a laboratory for analysis, leading to delays in obtaining results. This process is being turned on its head thanks to the ioLight pocket-sized digital microscope.

iolight
<https://iolight.co.uk>

Introducing the New PELCO BioWave® Microwave Tissue Processor



More than 150 articles have been published with research using the PELCO BioWave® family of Microwave Tissue Processors. The new design introduces features that improve efficiency and streamline

functionality. It is built on trusted technology and adds enhancements for efficient laboratory processing. This new tissue processor further enhances processing of tissue for diagnostic and research electron microscopy, immunofluorescence, and confocal specimen processing.

Ted Pella, Inc.
www.TedPella.com

Leica Biosystems Launches Knowledge Pathway

The Leica Knowledge Pathway provides a destination for educational content, industry trends, and thought leadership by providing up-to-date information in histology, downloadable webinars and tutorials for training and education in processing specimens, and information on case studies related to specific problems and processing of pathology samples. Leaders in the field will also share editorials and interviews concerning best practices and insight into industry trends.

Leica Biosystems
www.leicabiosystems.com

SUEZ Water Technologies and Aquisense Technologies Partner to Produce UV-C LED Water Disinfection for Laboratory Solutions

A partnership between SUEZ Water Technologies and Aquisense Technologies provides patented ultraviolet light emitting diode (UV-C LED) water treatment technology for disinfection directly at the point of use in critical laboratory applications. The new product offers a high-level microbial disinfection barrier directly at the point of use. Pathogens cannot enter the upstream pipeline, contaminating the system and future samples. The new UV LED disinfection mechanism also acts as a barrier, preventing contamination from entering the water purification system.

Aquisense Technologies
www.aquisense.com

AMETEK France Opens New Technology Solutions Centre in Élancourt City

The new Ametek Technology Solutions Centre will showcase the latest AMETEK products and technologies from the broad range of Ametek products. Customers will have access to live demos, training sessions, and service to meet application needs, including some latest solutions in aerospace, factory automation, 3D scanning solutions, optical emission, camera assistance systems, power management, drive technology, and durability-testing applications.

Ametek Inc
www.ametek.com

Olympus scanR High-Content Screening Station Rapidly Acquires Quantitative Data from Cell-Based Assays



Self-learning microscopy opens new horizons in high-content analysis and advances phenotypic screening. Olympus announces the US launch of the scanR High-Content Screening (HCS) station, a cell imaging

solution that uses artificial intelligence (AI) to enable next-generation biological research. It combines the modularity and flexibility of a microscope-based setup with the automation, speed, throughput, and reproducibility of a HCS station.

Olympus
www.olympusamerica.com

Hitachi High-Technologies Acquires Applied Physics Technologies

Hitachi has acquired all shares of APTech, which develops, manufactures, and sells electron sources for electron microscopes and other instruments. Hitachi will strive to expand sales of APTech products by leveraging Hitachi's marketing activities in a diverse array of business fields and its global sales network. APTech will continue to supply its customers with products manufactured based on its advanced technological capabilities and expertise.

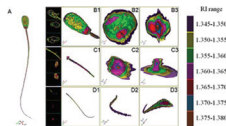
Applied Physics Technologies
www.a-p-tech.com/news-release.html

European Union Invests 10 Million Euro for Key Research in Structural Biology

The EU has invested 10 million euro to the iNEXT-Discovery consortium through its Horizon 2020 program. The goal is to generate knowledge for the development of new drugs, advanced vaccines, novel biomaterials, engineered enzymes for food production, efficient biofuels, and more. iNEXT-Discovery will offer advanced technological instrumentation and expertise to all European scientists, allowing them to perform high-end structural biology research with state-of-the-art equipment, often unavailable in their home countries.

https://eurekalert.org/pub_releases/2019-12/guf-eia122019.php

Tomocube Holotomography Microscopy Enables Label-Free, Non-Invasive Study of Individual Spermatozoa



The Tomocube Holotomography microscope enables rapid 3D imaging and in-depth structural analysis for monitoring and selection of spermatozoa for artificial insemination in humans and animals. A key determinant for

success in artificial insemination for humans and animals is the quality of the spermatozoa. However, current 2D label-free imaging methods can only detect abnormal spermatozoa with significant morphological changes or incomplete structures and are unable to provide information on their internal structure or composition.

Tomocube, Inc.,
www.Tomocube.com

Alluxa Announces New VP of Operations, Bill Kastanis



Bill Kastanis has joined Alluxa, Inc., a global leader in thin-film deposition technology and high-performance optical coatings/filters, as the new vice president of operations. A highly respected veteran in optics and photonics, Bill has over 35 years of experience in operations, vacuum deposition, and factory automation. Prior to Alluxa, he was

the VP and GM at the II-IV Advanced Coating Center and has been an integral part of the executive and engineering teams at Cierra Photonics, SputterTek, and OCLI.

Alluxa
www.alluxa.com

Lumiprobe Announces the Release of AF488 Reagent

Lumiprobe has released a new AF488 NHS ester analogue to the popular Alexa Fluor® 488 dye. AF488 is a bright and photostable dye with high hydrophilicity making it ideal for labeling of sensitive proteins and antibodies in many applications including microscopy. AF488 is an amine reactive dye that can label amine groups in proteins, peptides, and amino-modified oligos.

Lumiprobe Corporation
www.lumiprobe.com/p/alex-fluor-488-nhs-ester

μManager Open-Source Software and the Eliceri Group/LOCI Merge

μManager, an open-source microscopy software program developed at UCSF for microscope control and image acquisition, has merged with the Kevin Eliceri/LOCI (Laboratory for Optical and Computational Instrumentation) group at the University of Wisconsin-Madison. The LOCI/Eliceri group is a natural home due to existing Micro-Manager-based collaborations and synergy with their ImageJ/FIJI activities. μManager developer Mark Tsuchida has joined UW-Madison and μManager co-founder Nico Stuurman from UCSF to release the new build of Micro-Manager.

LOCI, μManager
<https://loci.wisc.edu>, <https://micro-manager.org>

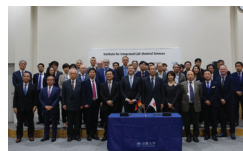
Element Pi Opens New Applications/Demonstration Laboratory in Portland, Oregon



Element Pi has opened a new facility that offers customers evaluation of tabletop- and floor-model SEMs with EDS systems from Bruker Nano and Oxford Instruments, as well as ion mill polishing tools, sputter coaters, and thermal evaporation tools. Demonstrations can be provided in person or via high-speed video conferencing. SEMs are also available for rent, allowing customers who cannot afford an SEM to perform research at the facility.

Element Pi
<https://elementpi.com>

ZEISS and Kyoto University Consolidate Strategic Partnership



ZEISS and Kyoto University have signed a new strategic research agreement to open the ZEISS iCeMS Innovation Core, a collaborative laboratory at Kyoto University's Institute for Integrated Cell-Material Sciences (iCeMS). The newly established

framework will provide Kyoto University with access to the latest ZEISS microscopy technologies. In return ZEISS will receive deeper insights into the world-class research being carried out in Kyoto, including new trends in the application of microscopy technology.

Zeiss
www.zeiss.com/microscopy/int/about-us/press-releases/2019/partnership-with-kyoto-university.html

Olympus X Line™ Series Objectives Honored with Innovation Award

The Olympus X Line™ series of objectives has been awarded a *Laser Focus World* Innovation Award for Innovative Optics and Photonics Technologies, Products, and Systems. The X Line objectives were honored with silver status, which recognizes an innovation that has resulted in marked improvement over previous products/systems, methods employed, and approaches taken. The unique design of the objectives provides improved image flatness, chromatic aberration correction, and numerical aperture.

Olympus
www.olympusamerica.com

Akoya Launches Two New, Fully Optimized PD-1/PD-L1 Panels for Immuno-Oncology Biomarker Analysis

Akoya has two new multiplex immunofluorescence kits expanding its portfolio of solutions for profiling immuno-oncology biomarkers in the tumor microenvironment. These kits focus on the PD-1 immune checkpoint blockade in lung cancer and melanoma. The MOTiF™ PD-1/PD-L1 panels were independently developed and analytically validated by Akoya. When coupled with Akoya's automated workflow, these new panels provide basic and clinical researchers with a true end-to-end solution for multiplexed immunofluorescent tissue imaging.

Akoya Biosciences
www.akoyabio.com