

Biological Spectroscopy Biophysical Techniques Series

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Biological Spectroscopy Biophysical Techniques Series

Here we conducted a comprehensive biophysical characterization ... microscopy and a series of complementary Fluorescence Fluctuation Spectroscopy (FFS) techniques. Using this approach, we found ...

Fluorescence Fluctuation Spectroscopy enables quantification of potassium channel subunit dynamics and stoichiometry

The impact of the post-mortem interval (PMI) on the optical molecular characteristics of the colonic mucosa and the gut-associated lymphoid tissue (GALT) were examined by multi-parametric measurements ...

Molecular profiling of the intestinal mucosa and immune cells of the colon by multi-parametric histological techniques

A clinical research collaboration on COVID-19 pheno-conversion and subsequent pheno-reversion has discovered transient and persistent systemic changes of the molecular signatures in patient blood ...

Bruker's Molecular Phenomics Research Tools Enable New Insights into 'Long COVID' and Post-Acute Metabolic Abnormalities

Structural, Biophysical ... spectroscopy, NMR, cryo-electron microscopy, and electron tomography. Using advanced computational techniques, this area also includes computational investigations of ...

Biological Sciences

The latest funding round comes nearly two years after Atonarp raised \$33 million in its series ... optical spectroscopy. Unlike traditional diagnostic and blood testing methods that rely on chemistry ...

Spectrometer firm Atonarp raises \$50M

The University launched a new pre-med emphasis for undergraduates in biochemistry and molecular biology designed to prepare students to attend professional school, including medical, dental, pharmacy ...

New pre-med biochemistry and molecular biology emphasis offered

5 Optical microscopy is a broad term that encompasses many different techniques, including fluorescence, dark-field, and surface plasmon resonance microscopy. There are also now a series of super ...

Using Optical Microscopy for Nanotube Research

Prof. WANG Junfeng from the High Magnetic Field Laboratory of the Hefei Institutes of Physical Science (HFIPS), together with international scholars, developed a novel circular permuted light-oxygen ...

Modular blue light-sensitive photoswitch developed for optogenetic engineering

The complete biochemical understanding of several processes in Biology requires bridging the ... he explored new spectroscopy methods for the study of ultrafast biophysical phenomena, such as ...

Juan Artes Vivancos

A series of seminal papers on the molecular phenome of acute disease and post-acute COVID syndrome in patient plasma has been announced (and published (1-5) by the Australian National Phenome Centre ...

The Globe and Mail

Among the methods established over the past few decades, dynamic nuclear polarization (DNP) techniques have become a method of choice for a broad range of applications, from materials sciences (1) and ...

Direct observation of hyperpolarization breaking through the spin diffusion barrier

NMR or 'nuclear magnetic resonance' spectroscopy offers unique opportunities ... by Dr. Manuel Etkorn from the Institute of Physical Biology and the Biomolecular NMR Center (which is run jointly ...

NMR observation of methyl groups in proteins from eukaryotic and cell-free expression systems

Nuclear magnetic resonance (NMR) spectroscopy and other solution biophysical methods are used to determine 3D structures ... to gain experience in biophysical chemistry, molecular biology, ...

Blanton S. Tolbert, PhD

The variability of the environment and its interpretation require tools that can manage all biophysical and ... (RGB), Near infra-red spectroscopy (NIRS), Multispectral imaging (MSI) and hyperspectral ...

Hyperspectral imaging aids precision farming

Atonarp, a leading manufacturer of molecular sensing and diagnostics products for the healthcare, pharma, and semiconductor industries, today announced it has raised a \$50 million Series D financing, ...

Atonarp Announces \$50M Series D Financing to Scale its Molecular Sensing and Digital Diagnostics Testing Platforms

by NMR spectroscopy. Dr Martin Hengesbach from the Institute of Organic Chemistry and Chemical Biology at Goethe University explains: "We have isolated functional units of the SARS-CoV-2 proteins ...

Worldwide network develops SARS-CoV-2 protocols for research laboratories

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Bruker ' s Molecular Phenomics Research Tools Enable New Insights into ' Long COVID ' and Post-Acute Metabolic Abnormalities

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SARS-CoV-2 research accelerator: worldwide network headed by Goethe University develops protocols for laboratories

A clinical research collaboration on COVID-19 pheno-conversion and subsequent pheno-reversion has discovered transient and persistent systemic changes of the molecular signatures in patient blood ...

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