BIOCHIMICA ET BIOPHYSICA ACTA - MOLECULAR CELL RESEARCH

One of the nine topical journals of BBA

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DESCRIPTION

_BBA Molecular Cell Research_ focuses on understanding the _mechanisms_ of _cellular processes_ at the _molecular_ level. These include aspects of cellular signaling, signal transduction, cell cycle, apoptosis, intracellular trafficking, secretory and endocytic pathways, biogenesis of cell organelles, cytoskeletal structures, cellular interactions, cell/tissue differentiation and cellular enzymology. Also included are studies at the interface between _Cell Biology_ and _Biophysics_ which apply for example novel imaging methods for characterizing cellular processes.

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AUDIENCE

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cell mechanics, atomic force microscopy, membrane mechanics, acoustic resonators, electric cell-substrate impedance sensing

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NF-kappaB, nervous system, neural stem cells, signal transduction, neuroprotection

Lesek Kotula, Upstate Medical University, Syracuse, New York, USA
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Joachim Krebs, Max Planck Institut (MPI) für Biophysikalische Chemie, Göttingen, Germany
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Peroxisomes; protein transport; targeting signals; metabolism; protein-protein interactions

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Iron-sulfur protein biogenesis; mitochondrial function and transport; ABC transporters; cell biology of metals; iron-sulfur diseases

Andreas Ludwig
Lung inflammation, leukocyte recruitment, proteolytic shedding, metalloproteinases, chemokines

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PI3K, Akt, mTOR, leukemia, drug-resistance

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Apoptosis, Bcl2-family, mitochondrial gene expression; mitochondrial pyruvate carrier

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Cell Biology, Membrane Trafficking, Membrane Biophysics

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Posttranscriptional mRNA regulation during stress, RNA stress granules, RNA-binding proteins

John O’Bryan, Medical University of South Carolina (MUSC), Charleston, South Carolina, USA
signal transduction, compartmentalized signaling, ubiquitylation, endocytosis, oncogenesis, and Ras GTPases.

Nikolaus Pfanner, Albert-Ludwigs-Universität Freiburg, Freiburg, Germany
Cell organelles, biogenesis of mitochondria, protein sorting, membrane proteins, protein assembly

Tassula Proikas-Cezanne, Eberhard-Karls-Universität Tübingen, Tübingen, Germany
Autophagy, cancer, high-throughput/content imaging

Lawrence A. Quilliam, Indiana University School of Medicine, Indianapolis, Indiana, USA
Ras family GTPases, mTOR, signal transduction

Fulvio Reggiori, Universitair Medisch Centrum Groningen, Groningen, Netherlands
autophagy, endosomes, endocytosis, vacuole, membrane trafficking, yeast

Juan Rosado, Universidad de Extremadura, Cáceres, Spain
Calcium signalling, store-operated calcium entry, TRP channels, Orai, STIM

Stefan Rose-John, Christian-Albrechts-Universität zu Kiel (CAU), Kiel, Germany
Cancer, genomics, cell transformation, inflammation; proteolysis

Peter Ruivo, University of Texas M.D. Anderson Cancer Center, Houston, Texas, USA
leukemia; apoptosis; signal transduction; protein phosphatase; galectin; microRNA

Heide Schatten, University of Missouri, Columbia, USA
Cancer biology, cell biology, reproductive biology, cell cycle, cell organelles, mitochondria, cytoskeleton, microtubules, centrosomes, meiosis, mitosis, cell division, microscopy

Maya Schuldiner, Weizmann Institute of Science, Rehovot, Israel
Saccharomyces cerevisiae, Organelles, Contact sites, Targeting and translocation, High content screens.

Klaus Schulze-Osthoff, Eberhard-Karls-Universität Tübingen, Tübingen, Germany
Cancer biology, cell death, NF-kappaB, senescence, signal transduction

Parco Siu, The University of Hong Kong, Hong Kong SAR, China
Molecular and integrative exercise physiology

Jianlong Sun, ShanghaiTech University, Shanghai, China
Stem cells; transcription regulation; breast cancer

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Yeast; nutrient sensing and signaling; nutrient receptors; nutrient transporters; stress tolerance; stress response

Mark Turner, Nottingham Trent University, Nottingham, England, UK
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