



BIOCHIMICA ET BIOPHYSICA ACTA - MOLECULAR CELL RESEARCH

One of the nine topical journals of BBA

AUTHOR INFORMATION PACK

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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

Cell biologists, Biochemists, Molecular biologists, Neurobiologists, Biophysicists

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 Lipids, intermediary metabolism, mitochondria, peroxisomes, mammals, yeast, regulation, multifunctional proteins
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 Cancer research, angiogenesis in cancer and neurologic disease
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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
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 Cancer, prostate cancer, actin cytoskeleton in cancer, cell signaling (growth factor signaling), mouse model of cancer
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 Calcium signaling, membrane proteins, alternative splicing, structural biology, NMR
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 Cell Biology, Membrane Trafficking, Membrane Biophysics
Rachid Mazroui, Laval University, Quebec, Quebec, Canada
 Posttranscriptional mRNA regulation during stress, RNA stress granules, RNA-binding proteins
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 signal transduction, compartmentalized signaling, ubiquitylation, endocytosis, oncogenesis, and Ras GTPases.
Yasuko Ono, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan
 Protease, calpain, muscle biology, muscular dystrophy
Nikolaus Pfanner, University of Freiburg Institute of Biochemistry and Molecular Biology, Freiburg, Germany
 Cell organelles, biogenesis of mitochondria, protein sorting, membrane proteins, protein assembly
Tassula Proikas-Cezanne, Eberhard Karls University Tübingen, Munich, Germany
 Autophagy, cancer, high-throughput/content imaging
Lawrence A. Quilliam, Indiana University School of Medicine, Indianapolis, Indiana, United States
 Ras family GTPases, mTOR, signal transduction
Fulvio Reggiori, Academic Medical Centre Groningen Department of Biomedical Sciences of Cells and Systems, Groningen, Netherlands
 autophagy, endosomes, endocytosis, vacuole, membrane trafficking, yeast
Des R. Richardson, Griffith University, Nathan, Queensland, Australia
 Anti-tumor agents, chemotherapy, metastasis suppression, thiosemicarbazones, iron
Juan Rosado, University of Extremadura, Badajoz, Spain
 Calcium signalling, store-operated calcium entry, TRP channels, Orai, STIM

Stefan Rose-John, Kiel University, Kiel, Germany

Cancer, genomics, cell transformation, inflammation, proteolysis

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leukemia, apoptosis, signal transduction, protein phosphatase, galectin, microRNA

Heide Schatten, University of Missouri, Columbia, Missouri, United States

Cancer biology, cell biology, reproductive biology, cell cycle, cell organelles, mitochondria, cytoskeleton, microtubules, centrosomes, meiosis, mitosis, cell division, microscopy

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Saccharomyces cerevisiae, Organelles, Contact sites, Targeting and translocation, High content screens.

Klaus Schulze-Osthoff, Eberhard Karls University Tübingen, Munich, Germany

Cancer biology, cell death, NF-kappaB, senescence, signal transduction

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Stem cells, transcription regulation, breast cancer

Johan Thevelein, KU Leuven Association, Leuven, Belgium

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

Leann Tilley, The University of Melbourne Department of Biochemistry and Molecular Biology, Parkville, Australia

Malaria, erythrocyte, super-resolution light microscopy, electron microscopy, drug development

Mark Turner, Nottingham Trent University, Nottingham, United Kingdom

Glucolipototoxicity, insulin secretion, inflammation, cytokine signalling, NF-kappaB

Rebecca M. Voorhees, California Institute of Technology, Pasadena, California, United States

Protein Biogenesis, Structural Biology, Quality Control, Membrane Proteins, ,

Raghunatha (Raghu) Yammani, Wake Forest University, Winston-Salem, North Carolina, United States

ER stress, Unfolded Protein Response (UPR) Signaling , S100 proteins, Cell signaling, Cartilage.

Wei-Guo Zhu, Department of Biochemistry and Molecular Biology Shenzhen University School of Medicine, Shenzhen, China

Histone modifications, DNA damage repair, Epigenetics, Tumor Suppressor

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Types of papers

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The main conclusions of the study may be presented in a short Conclusions section, which may stand alone or form a subsection of a Discussion or Results and Discussion section.

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