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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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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Ubiquitin; proteasome; ubiquitin ligase; chaperones; Hsp70/Hsc70; DNA binding protein
Guo-Fu Hu, Tufts Medical Center, Boston, Massachusetts, USA
Cancer research; angiogenesis in cancer and neurologic disease
Andreas Janshoff, Georg-August-Universität Göttingen, Göttingen, Germany
cell mechanics, atomic force microscopy, membrane mechanics, acoustic resonators, electric cell-substrate impedance sensing

Christian Kaltschmidt, Universität Bielefeld, Bielefeld, Germany
NF-kappaB, nervous system, neural stem cells, signal transduction, neuroprotection

Lesek Kotula, Upstate Medical University, Syracuse, New York, USA
Cancer, prostate cancer, actin cytoskeleton in cancer, cell signaling (growth factor signaling), mouse model of cancer

Joachim Krebs, Max Planck Institut (MPI) für Biophysikalische Chemie, Göttingen, Germany
Calcium signaling; membrane proteins; alternative splicing; structural biology; NMR

Markus Kunze, Medical University of Vienna, Vienna, Austria
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

Jean-Claude Martinou, Université de Genève, Genève, Switzerland
Apoptosis, Bcl2-family, mitochondrial gene expression; mitochondrial pyruvate carrier

Satyajit Mayor, National Centre for Biological Sciences, Bangalore, India
Cell Biology, Membrane Trafficking, Membrane Biophysics

Rachid Mazroui, Université Laval, Quebec City, 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.

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 Ruvolo, 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

Johan Thevelein, KU Leuven, Leuven, Belgium
Yeast; nutrient sensing and signaling; nutrient receptors; nutrient transporters; stress tolerance; stress response

Leann Tilley, University of Melbourne, Parkville, Victoria, Australia
Malaria, Erythrocyte, Super-resolution light microscopy, Electron Microscopy, Drug Development

Mark Turner, Nottingham Trent University, Nottingham, England, UK
Glucolipotoxicity; insulin secretion; inflammation; cytokine signalling; NF-kappaB

Raghunatha (Raghu) Yammani, Wake Forest University, Winston-Salem, North Carolina, USA
ER stress, Unfolded Protein Response (UPR) Signaling , S100 proteins, Cell signaling, Cartilage.
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