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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Cell biologists, Biochemists, Molecular biologists, Neurobiologists, Biophysicists

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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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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

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Signal transduction, compartmentalized signaling, ubiquitylation, endocytosis, oncogenesis, and Ras GTPases.

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Cell organelles, biogenesis of mitochondria, protein sorting, membrane proteins, protein assembly

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Autophagy, cancer, high-throughput/content imaging

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Ras family GTPases, mTOR, signal transduction

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Universiteit Medisch Centrum Groningen, Groningen, Netherlands
Autophagy, endosomes, endocytosis, vacuole, membrane trafficking, yeast

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

**Klaus Schulze-Osthoff**
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Cancer biology, cell death, NF-kappaB, senescence, signal transduction

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Molecular and integrative exercise physiology

**Jianlong Sun**
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Stem cells; transcription regulation; breast cancer

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

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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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