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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Humanized yeast, apoptosis, anti-apoptosis, cell survival
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Apoptosis, Bcl2-family, mitochondrial gene expression, mitochondrial pyruvate carrier

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Cell Biology, Membrane Trafficking, Membrane Biophysics

Rachid Mazroui, Laval University, Québec, Quebec, Canada
Posttranscriptional mRNA regulation during stress, RNA stress granules, RNA-binding proteins

Barbara A. Niemeyer, Saarland University, Saarbrücken, Germany
Dr. Barbara Niemeyer is a biologist interested in the regulation of calcium selective ion channels on a molecular and cell physiological level. How Ca2+ signatures are regulated by their environment and by other intracellular signalling cascades to confer cell type specific responses is investigated by molecular biology, biochemistry, Ca2+ imaging analysis, electrophysiology (patch-clamp) and high resolution microscopy (live cell imaging, TIRF and electron microscopy).

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Iron, Copper, Melanoma, Copper transport, Zinc, Frataxin, Metal, Transferrin, Iron-sulfur protein, Metal ion-protein interaction, Tumor therapy, Iron metabolism, Metal homeostasis, Metalloenzyme, Transport metal

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