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.

Please note: We usually do not consider descriptive manuscripts dealing with the identification of transcripts regulated by single miRNAs or lncRNAs, unless substantial new mechanistic insight into their (patho)physiological activity is provided. Descriptive evaluation of natural compounds as potential drug candidates are generally not within the purview of BBA-MCR, unless novel targets or molecular mechanisms for these compounds are identified.

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AUDIENCE

Cell biologists, Biochemists, Molecular biologists, Neurobiologists, Biophysicists

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Membrane dynamics, membrane trafficking, cell cortex, calcium signalling, exocytosis

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

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

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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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

Paola Pizzo, University of Padua, Department of Biomedical Sciences, Padova, Italy
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