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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Andreas Ludwig, RWTH Aachen University, Aachen, Germany
Lung inflammation, leukocyte recruitment, proteolytic shedding, metalloproteinases, chemokines

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Cellular signaling in health and diseases, cancers, cellular signaling, drug-resistance, Akt, P13K, mTOR, GSK3beta

Jean-Claude Martinou, University of Geneva, 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

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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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Calcium signalling, store-operated calcium entry, TRP channels, Orai, STIM

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State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.

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