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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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Cancer research; angiogenesis in cancer and neurologic disease

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Autophagy, cancer, high-throughput/content imaging

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Ras family GTPases, mTOR, signal transduction

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autophagy, endosomes, endocytosis, vacuole, membrane trafficking, yeast

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Anti-tumor agents, chemotherapy, metastasis suppression, thiosemicarbazones, iron

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

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Cancer, genomics, cell transformation, inflammation; proteolysis

Peter Ruvolo, UNIVERSITY OF TEXAS MD ANDERSON CANCER CENTER, Houston, Texas, United States
leukemia; apoptosis; signal transduction; protein phosphatase; galectin; microRNA

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

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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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