Special Issue

The Roles of CaMKK2 in Cell Metabolism and Disease 2022

Message from the Guest Editors

The calcium-sensing enzyme Ca2+/calmodulin-dependent protein kinase kinase 2 (CaMKK2) functions as a molecular hub to regulate critical cell functions and physiological responses. CaMKK2's well-characterised substrates CaMK1, CaMK4, and the metabolic co-ordinator AMP-activated protein kinase (AMPK) implicate CaMKK2 signalling cascades in diverse processes including energy homeostasis, autophagy, cell survival, cell cycle, cytoskeletal remodelling, inflammation, gene expression, mRNA splicing, neuronal excitability, cognition and synaptic plasticity associated with learning and memory. CaMKK2 also directly activates the important oncogenic target AKT (PKB). In this Special Issue, we aim to capture the scope of ongoing research being conducted on CaMKK2 at the molecular, cellular and physiological levels. We are particularly interested in submissions investigating how CaMKK2 dysregulation leads to a wide range of pathologies and psychiatric disorders. Our goal is to amalgamate recent advances in this exciting and emerging field, and to provide a platform for united commentary on the current state of play regarding the therapeutic potential of CaMKK2.

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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