

Special Issue

The Roles of CaMKK2 in Cell Metabolism and Disease

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-characterized substrates CaMK1, CaMK4, and the metabolic co-ordinator AMP-activated protein kinase (AMPK) implicate CaMKK2 signaling cascades in diverse processes including energy homeostasis, autophagy, cell survival, cell cycle, cytoskeletal remodeling, 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), underpinning recent efforts to develop small-molecule CaMKK2 inhibitors as anti-cancer drugs. 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.

Guest Editors

Prof. Dr. Jon Oakhill

1. St. Vincent's Institute of Medical Research, School of Medicine, University of Melbourne, Melbourne, VIC 3052, Australia
2. Exercise and Nutrition Research Program, Mary MacKillop Institute for Health Research, Australian Catholic University, Melbourne, VIC 3000, Australia

Dr. John W. Scott

1. St. Vincent's Institute of Medical Research, Fitzroy, Melbourne, VIC 3065, Australia
2. Exercise and Nutrition Research Program, Mary MacKillop Institute for Health Research, Australian Catholic University, Melbourne, VIC 3000, Australia
3. The Florey Institute of Neuroscience and Mental Health, Parkville, VIC 3052, Australia

Deadline for manuscript submissions

closed (1 October 2021)



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



mdpi.com/si/59092

Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

mdpi.com/journal/

[cells](https://mdpi.com/journal/cells)





Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



[mdpi.com/journal/
cells](https://mdpi.com/journal/cells)



About the Journal

Message from the Editorial Board

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.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny

Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE,
Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation Centre, The University of Copenhagen,
Copenhagen, Denmark

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, CAPus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).