



an Open Access Journal by MDPI

Metabolic Regulation: Cell Growth and Proliferation

Guest Editors:

Dr. Debabrata Banerjee

Department of Pharmacology, Rutgers, Robert Wood Johnson Medical School (RWJMS), Rutgers, The State University of New Jersey, Piscataway, NJ 08854, USA

Dr. Deepshikha Mishra

Department of Pharmacology, Rutgers, Robert Wood Johnson Medical School (RWJMS), Rutgers, The State University of New Jersey, Piscataway, NJ 08854, USA

Deadline for manuscript submissions: closed (30 August 2023)

Message from the Guest Editors

A deeper understanding of metabolic regulation has further sparked interest in identifying cancer-specific metabolic signatures that render more direct and substantial effects to encourage cancer cell proliferation and survival. The era of metabolomics has fueled the identification of pathways and metabolic markers that are causative in cancer generation and progression. Further, external factors like diet and exercise also directly influence metabolic regulation. Metabolomic, transcriptomic and proteomic profiling enables the identification of alterations associated with cancer and these approaches provide a complete picture of discrepancies observed in regulation at molecular and pathway levels. Targeting altered metabolic regulation to diminish tumor growth and energy reservoir is now a major focus of future research and could be more advantageous and effective in advanced cancer therapeutics. A better understanding of the principles of metabolic regulation may improve ways to treat different cancers but also other metabolic diseases that rely on such pathways.



mdpi.com/si/116853







an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Alexander E. Kalyuzhny

Neuroscience, UMN Twin Cities, 6-145 Jackson Hall, 321 Church St SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, CAPlus / SciFinder, and other databases.

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

Contact Us

Cells Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/cells cells@mdpi.com X@Cells_MDPI