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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

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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.



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Neuroscience, UMN Twin Cities,
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Denmark

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Contact Us

Cells Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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