Special Issue

Metabolic Regulation: Cell Growth and Proliferation

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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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.

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