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## Organelle Structure and Metabolism in Cancer Cells

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Deadline for manuscript  
submissions:

**closed (15 December 2023)**

### Message from the Guest Editors

Dear Colleagues,

An altered cellular metabolism has been recognized as one of the hallmarks of cancer. Cancer cells are known to divert flux through their metabolic pathways (glycolysis, pentose phosphate pathway, Krebs cycle, etc.) in order to increase macromolecule and organelle biosynthesis and maintain active cellular proliferation. Since metabolic alterations are closely linked to changes in organelle structure, both processes have been implicated in cellular changes in cancer initiation and progression, including oncogene-mediated transformation, epithelial-to-mesenchymal transition, cellular migration and invasion, cancer stem cell maintenance, and cellular interactions with the tumor microenvironment. In addition, metabolic alterations induce changes in intermediary metabolites, with some having oncogenic roles (succinate, fumarate, 2-hydroxyglutarate, etc.) that also contribute to the maintenance of metabolic changes in cancer cells.

This Special Issue welcomes submissions from diverse areas of cancer biology concerned with cancer cell alterations in organelle structure and metabolism, with the purpose of stimulating intriguing perspectives in the discipline.



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## Editor-in-Chief

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## Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

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