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Epigenetics of Cancer Evolution and Associated Resistance Emergence

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 December 2022)

Message from the Guest Editor

Dear Colleagues,

Cancer cells can evolve stepwise by accomplishing specific phenotypic changes that are instructed by inherited/acquired variants mediating adaptation to the cancer-blocking activities of the host or therapy. Besides the transcriptional control of the cell cycle and differentiation, additional and often quite general mechanisms may cooperate during this process. At a nuclear level, there is epigenetic regulation, which involves chromatin remodeling, histone modification and nucleosome assembly during DNA replication. At a cytoplasmic level, there exist multiple regulatory circuits involving metabolic and protein modification pathways.

This journal Special Issue attempts to attract scientists who utilize and integrate multiple omics platforms in order to study cancer molecular evolution and the associated resistance emergence. Scientists that study cancer cells but also those utilizing normal cells with implications for cancer evolution or mouse models are encouraged to submit their work.



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Special Issue



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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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