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Targeting Genomic Evolution and Cancer Progression

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submissions:

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Message from the Guest Editor

Genomic instability and telomere maintenance are critical lifelines of cancer cells. Genomic instability, which seems to arise early at a premalignant stage and gradually intensifies, leads to a series of genomic changes, some of which underlie progression through successive stages of disease, development of drug resistance, and poor clinical outcome. The ability to constantly evolve not only enables the cancer cell to acquire new characteristics for the development and progression of disease but also presents a great challenge for cancer treatment and diagnosis. Moreover, the changes acquired as a consequence of genomic instability may also predict patient outcome. The mechanisms underlying genomic instability and their activation during carcinogenesis are not fully understood, and identification of these mechanisms could help in the development of novel strategies for cancer prevention and treatment.

We invite investigators to contribute review and/or original research papers describing recent findings in the fields of genomics/genomic instability, inflammation, and/or the environmental/dietary factors affecting cancers.



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