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Chromosomal Instability in Cancer

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Message from the Guest Editor

Chromosomal instability (CIN) is a feature of some of the most aggressive cancers and has been linked to tumor progression and therapeutic resistance. CIN is a driver of genetic heterogeneity, aneuploidy and somatic copy number change, and recent studies have revealed, in increasing detail, the complex ways in which CIN reshapes cancer genomes to produce more fit tumor genotypes. Further research promises to increase our mechanistic understanding of CIN, and provide insights into the vulnerabilities that would allow for the therapeutic targeting of CIN-high cancers.

In this Special Issue, we invite authors to share their latest findings and perspectives on chromosomal instability in cancer. We are particularly interested in submissions that explore the impact of CIN on genomic, epigenomic and phenotypic heterogeneity. We encourage contributions that leverage single-cell techniques to examine the genomic and phenotypic consequences of CIN. We are also interested in studies of the evolutionary dynamics in chromosomally unstable cancers, in addition to studies that link CIN with DNA repair deficiencies, replication stress, and mutational processes.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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