Special Issue

Translational Cancer Genomics by Next Generation Sequencing and Molecular-Barcoding Technique

Message from the Guest Editors

Recent advances in sequencing technology, notably the introduction of next-generation sequencing and molecular barcoding techniques, have enabled rapid, efficient, low-cost, and precise sequencing. Furthermore, extensive application of these latest technologies to basic cancer research has facilitated the in-depth molecular characterization of cancer from various perspectives (oncogenesis, tumor phylogeny, progression, metastasis, treatment response, etc.) with higher precision than before. This Special Issue aims to publish original research papers and review articles related to advances in basic research on cancer genomics that are very close to the stage of clinical application. A particular focus will be given to research using sequencing data expected to contribute to the development of novel cancer diagnostics and treatment techniques (including gene therapies) as well as new medical devices and drugs, such as studies on circulating tumor DNA, fusion gene, intratumor heterogeneity, tumor mutation burden, and the microbiome. Furthermore, papers discussing cancer cell responses to immunotherapy based on sequence data will also be considered.

Guest Editors

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Deadline for manuscript submissions

closed (22 November 2020)

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Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving 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. Why not consider *Genes* for your next genetics paper?

Editor-in-Chief

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