

Special Issue

Cancer Cell Proliferation, Differentiation and Metastasis

Message from the Guest Editor

Traditionally, much of translational cancer research relates to the identification of mutations, amplifications, deletions, differential gene expression or epigenetic silencing of oncogenes and tumour suppressor genes. However, the functional consequences of such altered genes on tumour tissues remain much more poorly understood than the precise details of genetic events. How do activated oncogenes change the phenotypic behaviour of tumour cells in the context of living cancer tissues? What is their impact on dynamic processes such as tumour cell proliferation versus differentiation, invasion, and penetration of lymph and blood vessels? What is their impact on tumour dormancy, survival of cancer stem cells, therapy failure, and relapse?

In this Special Issue, we primarily encourage articles that link genetic and molecular events with functional insights into complex tumour biology. We specifically invite also contributions that introduce novel in vitro or in vivo model systems and assays to elucidate gene functions, or perform target validation, ideally directed towards the unmet clinical needs of personalized cancer medicine and therapy.

Guest Editor

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Deadline for manuscript submissions

closed (25 December 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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