Special Issue

The Ever-Expanding CRISPR/Cas Toolbox and Its Applications

Message from the Guest Editors

Due to their extreme simplicity, the applications of CRISPR-Cas systems have exploded in recent years, ranging from targeted genome sequence modification and modulation of gene transcription to genetic screens and diagnostics. Following on the Nobel Prize-winning characterization of targeted DNA cleavage by SpCas9, a great wealth of additions and improvements to the CRISPR-Cas toolbox have thus made it possible to develop a whole range of novel methods to investigate biological mechanisms and engineer new biotechnological applications. In this Special Issue, we welcome reviews, new methods, and original articles covering the different possibilities offered by CRISPR-Cas systems and their implementation for investigating the genome in both basic and applied research, including recent developments of the best established applications, such as second-generation tools of gene editing, to emerging prospects for gene therapy in human disease and development of gene drives.

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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?

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