

Special Issue

Regulation of Gene Expression: RNA Modification of Genes

Message from the Guest Editors

More than 100 types of RNA modifications have been identified in both mRNA and non-coding RNAs, including adenosine-to-inosine RNA editing, N6-methyladenosine (m6A), and 5-methylcytosine (m5C), to name just a few. With the development of various genome-wide sequencing technologies for detecting RNA modifications, RNA modifications have been increasingly appreciated as key players in regulating gene expression programs. In response to both internal and external stimuli, RNA modifications confer cell a tunable mechanism to regulate transcription, RNA metabolism and translation. However, our understanding of the regulatory mechanisms remains incomplete. Extensive efforts are needed to develop novel tools for detecting RNA modifications at a single-base resolution and in a quantitative manner, to characterize key binding proteins of RNA modifications for elucidating the regulatory network, and to understand how the dysregulation of RNA modifications might contribute to disorders and diseases. The present Special Issue is expected to present technical advances and mechanistic studies towards a better understanding of gene expression regulation by RNA modifications.

Guest Editors

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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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