Non-coding RNAs: Variety of Roles and Applications in Human Diseases

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Message from the Guest Editor

Dear Colleagues,

Non-coding RNAs (ncRNAs) are classified as microRNA (miRNA) (containing 19–25 nucleotides) and lncRNA (containing more than 200 nucleotides) according to their length. NcRNAs modulate gene expression at the post-transcriptional level by degradation or translational inhibition of target mRNAs. They are related to many biologic processes, such as development, cell differentiation, proliferation, apoptosis, and inflammation. In addition, ncRNAs are also known to be associated with the diagnosis, classification, progression, and prognosis of many human diseases. Therefore, they can be considered as potential biomarkers for disease diagnosis and as therapeutic targets.

In this Special Issue, we would like to invite submissions of original research articles and review articles focused on ncRNAs, in particular, on their functions, regulatory mechanisms, and applications. We also welcome studies that highlight new technologies, new analysis platforms, new animal models, and new manipulation tools for the study of all kinds of RNA.

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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