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The Role of RNA Processing and Metabolism in Tumors

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Message from the Guest Editors

Defects of RNA metabolism cause many human diseases, including cancer. The complete sequence of the human genome provided quite a surprise to many by revealing that more than 98% of the transcriptional output represents non-protein coding RNAs (ncRNAs). In addition to housekeeping ncRNAs (rRNAs, tRNAs, etc.), small regulatory RNAs (microRNAs, piRNAs, etc.), long noncoding RNAs (lncRNAs, >200nt), and circular RNAs are emerging as major population of eukaryotic transcripts with both reported and yet undiscovered roles in gene regulation. This special issue focuses on understanding how genetic/environmental factors affect RNA metabolism in humans and why dysregulation of this process causes cancer. Areas of interest include, but are not limited to:

- 1) Roles of noncoding RNAs in cancer development and therapy
- 2) Roles of noncoding RNAs in cancer metabolism and tumour microenvironment
- 3) Noncoding RNAs as novel therapeutic targets
- 4) Biogenesis and new action modes of lncRNAs and circular RNAs
- 5) Epigenetic regulation of noncoding RNAs
- 6) Nucleolar stress and cancer therapy
- 7) Identification of new lncRNAs in cancer



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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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