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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 specific for cancer



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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?

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