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The Role of RNA Processing and Metabolism in Tumors

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Deadline for manuscript submissions:

closed (20 August 2022)

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 novel RNA species in cancer



mdpi.com/si/97912

Special Issue



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Message from the Editor-in-Chief

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