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Non-coding RNAs in Cancer Diagnosis and Therapy

Guest Editor:

Dr. Simone Anfossi
Translational Molecular Pathology, The University of Texas MD Anderson Cancer Center, Houston, TX, USA

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Message from the Guest Editor

To date, miRNAs and lncRNAs are the most extensively studied classes of ncRNAs, as they play an important role in the regulation of biological processes of cells. Aberrant expression of miRNAs and lncRNAs is often observed in cancer and they play a relevant role in the development and progression of cancer. The past decade witnessed an increasing interest in the study of miRNAs and lncRNAs as potential tumor biomarkers to predict clinical outcome and response to therapy and as potential targets for the development of RNA-based therapeutics. In particular, due to their stability in the blood (encapsulation inside macrovesicles and associated with proteins in RNA–protein complexes or high-density lipoproteins (HDLs)), particular effort has been made to develop tumor biomarkers using liquid biopsies. Furthermore, the use of RNA-based molecules may represent an important therapeutic strategy to target cancer pathways that are undruggable by standard therapies.

The aim of this Special Issue of Biomolecules is to present a collection of articles describing recent advancements in the use of ncRNAs in cancer diagnosis and therapy.

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Contact Us

Biomolecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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