

Special Issue

Molecular Mechanisms of mRNA Transcriptional Regulation

Message from the Guest Editor

Regulation of mRNA transcription is a highly dynamic process mediated by various molecular events which include specific DNA–protein, RNA–protein, RNA–RNA as well as DNA–RNA interactions. This complex process can be controlled at several steps, including the initial recruitment and assembly of the transcriptional machinery, transcription initiation, transcription pausing, transcription elongation, as well as termination phases. In addition, regulation of mRNA biogenesis and degradation involves the participation of various non-coding RNAs (ncRNAs), such as microRNAs, endogenous siRNAs, small nuclear RNAs, long ncRNAs, circular RNAs, and enhancer RNAs. This Special Issue focuses on the roles of different classes of RNAs and proteins regulating mRNA expression in mammalian cells. In particular, studies involving advanced deep sequencing, proteomics, and novel bioinformatics algorithms for RNA research are highly welcomed. The formats for submission include original research reports, reviews, and communications.

Guest Editor

Dr. Andrey Turchinovich

1. Cancer Genome Research (B063), German Cancer Research Center, 69120 Heidelberg, Germany
2. Heidelberg Biolabs GmbH, 69120 Heidelberg, Germany

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4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

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