



Molecular Regulation and Mechanism of Ribonucleoprotein Complexes

Guest Editor:

Dr. Elena A Stolboushkina

Institute of Protein Research of
the Russian Academy of
Sciences, Pushchino, Russia

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Message from the Guest Editor

Ribonucleoprotein Complexes (RNP) are essential in all cellular life forms: Bacteria, Archaea, Eukaryotes and even in non-cellular infectious agents – RNA viruses. Ribonucleoprotein Complexes consists of ribonucleic acids and RNA-binding proteins. There are huge RNP complexes such as RNA viruses, vault complex, ribosome, spliceosome, heterogeneous ribonucleoprotein particles (hnRNP) and smaller ones: telomerase, replicase, RNase P, aminoacyl-tRNA synthetases and etc. These complexes have important biological roles in replication of RNA viruses, cellular transcription and translation, post-transcriptional and post-translational modification and also regulation of these processes. For Special Issue «Molecular Regulation and Mechanism of Ribonucleoprotein Complexes» of IJMS, we are interested the recent advances in the area of structural organization, mechanisms of function, assembly and transport RNPs, and also regulation of processes involving ones. The knowledge and understanding of these fundamental processes is essential for the fight against aging, genetic diseases and antibiotic resistance, for improving anticancer drugs and an antiviral therapy.





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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

Message from the Editor-in-Chief

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*International Journal of Molecular
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MDPI, Grosspeteranlage 5
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