

Special Issue

Computational Methods for the Analysis of RNA Structures and Modifications

Message from the Guest Editors

From research in RNA modifications, it has become clear that RNA is a dynamic molecule that can be modified and folded into secondary and tertiary structures. Protein-coding mRNAs occupy less than a few percent of the mammalian transcriptome, leaving behind the majority of transcribed RNAs as ncRNAs. These ncRNAs include rRNAs and tRNAs, as well as other regulatory ncRNAs, such as miRNAs and lncRNAs. In particular, lncRNAs have gained momentum in recent years, due both to the acceleration in their discovery as well as their potential to explain many cellular activities and physiological phenomena, which protein-centric research has so far been unable to explain. It is now accepted in the field that lncRNAs exert their actions by binding to other macromolecules. Furthermore, since they are long RNAs, their binding to other macromolecules is closely regulated by their secondary and tertiary structures as well as their epitranscriptomic modifications. This Special Issue will highlight and discuss further developments in computational methods for analyzing RNA structures and modifications.

Guest Editors

Dr. Sarah Rennie

Section for Computational and RNA Biology, Department of Biology,
University of Copenhagen, Copenhagen, Denmark

Prof. Dr. Shizuka Uchida

Center for RNA Medicine, Department of Clinical Medicine, Aalborg
University, Frederikskaj 10B, 2. (Building C), DK-2450 Copenhagen SV,
Denmark

Deadline for manuscript submissions

closed (1 October 2023)



BioTech

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 4.8
Indexed in PubMed



mdpi.com/si/159917

BioTech
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biotech@mdpi.com

[mdpi.com/journal/
biotech](https://mdpi.com/journal/biotech)





BioTech

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 4.8
Indexed in PubMed



[mdpi.com/journal/
biotech](https://mdpi.com/journal/biotech)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Massimo Negrini
Department of Morphology, Surgery and Experimental Medicine,
University of Ferrara, Ferrara, Italy

Author Benefits

High Visibility:

indexed within ESCI (Web of Science), Scopus, PubMed, PMC, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Biotechnology and Applied Microbiology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 22.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).