



## Ribosomal Proteins in Ribosome Assembly

Guest Editors:

**Dr. Brigitte Pertschy**

Institute of Molecular  
Biosciences, University of Graz,  
Humboldtstrasse 50, 8010 Graz,  
Austria

**Dr. Ingrid Zierler**

Institute of Molecular  
Biosciences, University of Graz,  
Humboldtstrasse 50, 8010 Graz,  
Austria

Deadline for manuscript  
submissions:

**closed (15 January 2024)**

### Message from the Guest Editors

Ribosome biogenesis is a key cellular process involving the assembly of ribosomal proteins (r-proteins) with ribosomal RNA (rRNA) into the complex three-dimensional structure of mature ribosomes. Newly synthesized r-proteins are prone to aggregation and therefore need to be protected both by the general cellular chaperone network and by dedicated r-protein chaperones. Eukaryotic r-proteins, moreover, have to overcome a physical obstacle. Hence, eukaryotic ribosome biogenesis relies on the efficient nuclear import of r-proteins.

This issue aims to present up-to-date original research manuscripts as well as review manuscripts about all aspects of r-proteins in ribosome assembly, including insights from all domains of life that cover but are not restricted to the following areas:

Regulation of r-protein synthesis;

Nuclear import of r-proteins and r-protein chaperones;

The order and mechanisms of incorporation of r-proteins into nascent ribosomes;

The functions of r-proteins in rRNA folding and ribosome maturation;

Evolutionary aspects—r-proteins in bacteria, archaea, and eukaryotes;

Diseases of aberrant r-protein synthesis and assembly.





an Open Access Journal by MDPI

## Editors-in-Chief

### Prof. Dr. Peter E. Nielsen

Department of Cellular and  
Molecular Medicine, Faculty of  
Health and Medical Sciences,  
University of Copenhagen,  
Blegdamsvej 3C, DK-2200  
Copenhagen, Denmark

### Prof. Dr. Lukasz Kurgan

Department of Computer  
Science, Virginia Commonwealth  
University, Richmond, VA 23284,  
USA

## Message from the Editorial Board

*Biomolecules* is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)

## Contact Us

---

*Biomolecules* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/biomolecules  
biomolecules@mdpi.com  
X@Biomol\_MDPI