

## Special Issue

# Intrinsically Disordered Proteins (IDPs): From Physical Chemistry to Pathogenic Mechanisms

### Message from the Guest Editors

Intrinsically disordered proteins (IDPs) represent ~50% of the human proteome and are implicated in major human diseases, such as cancer, neurodegeneration, and viral infections, emerging as potential targets for therapeutic approaches. This Special Issue will highlight the link between the peculiar physicochemical properties of these polymers, their interactions, and their role under physiological and pathological conditions. Advanced biophysical methods for IDP structural investigation will also be discussed. Most of the papers derive from contributions to the International Summer School on “Intrinsically disordered proteins (IDPs)—From Physical Chemistry to Pathogenic Mechanisms” held in Como, Italy, in September 2019. Topics include, without being limited to: IDP identification, classification and characterization, liquid-liquid phase transitions, membrane-less organelles, conformational ensembles, molecular recognition, fuzzy complexes, protein networks, cancer, neurodegeneration, virus regulation, enzymatic IDPs, biophysical and mass spectrometry techniques, -omics approaches, disorder and aggregation prediction, computational modeling.

---

### Guest Editors

Dr. Stefania Brocca  
Prof. Dr. Rita Grandori  
Dr. Sonia Longhi

---

### Deadline for manuscript submissions

closed (30 September 2020)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/33567](https://mdpi.com/si/33567)

*International Journal of  
Molecular Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

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





# International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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. José L. Quiles  
Department of Physiology, Institute of Nutrition and Food Technology  
"Jose Mataix", Biomedical Research Center, University of Granada,  
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

---

### 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, PMC, MEDLINE, Embase, CAPus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)