

## Special Issue

# Protein Engineering: The Present and the Future 2.0

### Message from the Guest Editors

Proteins are simple polymers with extraordinary properties of enormous biological and economic value. They are widely used in biological catalysis, as key components of analytical methods, or as highly specific drugs for personalized medicine. Protein engineering uses synthetic methods that allow the application of rational physicochemical knowledge and the power of evolutionary approaches to the goal of creating, in useful quantities, novel proteins that exhibit advantageous properties. Significant advances in the understanding of protein energetics, in computational methods for sequence and structural analysis, and in synthetic methods, combined with growing economic and social interest in proteins, claim the logical transformation of Protein Engineering into a predictive quantitative discipline, where success is guaranteed by good design. In this Special Issue we will show, with examples of their application to specific proteins, the most advanced methods that anticipate the transformation of Protein Engineering from an art for practitioners to a reliable technology.

---

### Guest Editors

Prof. Dr. Javier Sancho

Department of Biochemistry and Molecular and Cell Biology, Institute for Biocomputation and Physics of Complex Systems (BIFI), University of Zaragoza, 50009 Zaragoza, Spain

Prof. Dr. Francesca Cutruzzola

Biochemical Sciences "Alessandro Rossi Fanelli", Sapienza Università di Roma, 00185 Rome, Italy

---

### Deadline for manuscript submissions

closed (30 November 2023)



## Biophysica

---

an Open Access Journal  
by MDPI

---

CiteScore 1.6  
Tracked for Impact Factor



[mdpi.com/si/132651](https://mdpi.com/si/132651)

*Biophysica*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[biophysica@mdpi.com](mailto:biophysica@mdpi.com)

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





# Biophysica

---

an Open Access Journal  
by MDPI

---

CiteScore 1.6  
Tracked for Impact Factor



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



## About the Journal

### Message from the Editorial Board

---

#### Editors-in-Chief

Prof. Dr. Victor Muñoz

Director NSF-CREST Center for Cellular and Biomolecular Machines (CCBM), University of California Merced, 5200 North Lake Road, Merced, CA 95340, USA

Prof. Matthias Buck

Department of Physiology and Biophysics, School of Medicine, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106, USA

---

#### Author Benefits

##### High Visibility:

indexed within ESCI (Web of Science), Scopus, EBSCO, and other databases.

##### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.7 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2024).

##### Recognition of reviewers

: APC discount vouchers, optional signed peer review and reviewer names are published annually in the journal.