

Special Issue

Mechanisms of Protein Thermostability

Message from the Guest Editor

Proteins are essential and play structural and catalytical roles in all life forms. Their stabilities are required for performing various physiological functions under different growth conditions. Many proteins are stable in a wider range of temperatures, particularly at high temperatures ($>100^{\circ}\text{C}$). Progress has been made to understand the nature of their thermostability. It is known that multiple factors may be involved in protein thermostability, such as amino acid composition, salt bridge, core packing, hydrophobicity, etc. Elucidation of mechanisms of protein thermostability will not only contribute to understanding life processes at different temperatures, but also the applications of enzyme catalysis in biotechnology. More studies, including bioengineering, will advance our knowledge in this area.

Guest Editor

Dr. Kesen Ma

Department of Biology, University of Waterloo, Waterloo, ON, Canada

Deadline for manuscript submissions

closed (31 May 2025)



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



mdpi.com/si/152887

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

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





Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



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



About the Journal

Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

Editors-in-Chief

Prof. Dr. Jukka Finne

Research Programme in Molecular and Integrative Biosciences, Faculty of Biological and Environmental Sciences, University of Helsinki, P.O. Box 56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology Institute, University of Valencia and CSIC, 46980 Valencia, Spain

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (General Agricultural and Biological Sciences)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.4 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the first half of 2025).