

Special Issue

The Rules of Life Rethought: Latest Progress in Quantum Biology

Message from the Guest Editors

Over the last decade, the field of quantum biology has been propelled by experimental and theoretical efforts that have led to remarkable discoveries at the interfaces of traditional disciplines. Non-trivial quantum effects are now considered central to diverse phenomena, such as photosynthesis, certain enzyme-catalyzed reactions, magnetoreception, and spin effects in biochemical reactions, to name but a few. While the idea of a quantum advantage was central to early developments, the field is now increasingly considered to encompass all biological phenomena for which the language of quantum mechanics provides the most natural description. This Special Issue aims to explore and celebrate the diverse and emerging field of quantum biology from an interdisciplinary perspective, spanning the arc from behavioral biology to theoretical physics. Observational, experimental, and modelling studies that showcase the latest developments in the field are highly encouraged.

Guest Editors

Dr. Daniel R. Kattnig

Department of Physics and Living Systems Institute, University of Exeter, Exeter EX4 4QL, UK

Dr. Clarice D. Aiello

Electrical and Computer Engineering Department, University of California, Los Angeles, CA 90095, USA

Deadline for manuscript submissions

closed (31 August 2024)



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



mdpi.com/si/171860

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).