

Special Issue

Microbiology and Metabolomics in Reproductive Biology

Message from the Guest Editor

During fetal life, the development and programming of the immune system, metabolism, and the central nervous system require interactions with the maternal microbiota. Live bacteria are believed to be rare in a healthy fetus. Thus, the prenatal host–microbe interactions are more likely to rely on circulating metabolites and other components derived from microbes, reaching the fetus through the placenta. Understanding these complex interactions is crucial for identifying potential biomarkers for disease prediction and for developing targeted interventions to improve maternal and neonatal outcomes. The goal of this Special Issue is to bring together cutting-edge research and reviews that explore the latest findings, innovative methodologies, and therapeutic implications of the maternal microbiome and metabolome. By delving into these topics, this Special Issue aims to provide a comprehensive overview of how these biological systems can be leveraged to enhance maternal and child health.

Guest Editor

Dr. Giuseppina Campisciano

Department of Advanced Translational Microbiology, Institute for Maternal and Child Health—IRCCS Burlo Garofolo, Via dell'Istria 65, 34137 Trieste, Italy

Deadline for manuscript submissions

31 August 2025



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



mdpi.com/si/213405

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).