

Special Issue

Integrative Immunology of the Skin: Unraveling Molecular Networks in Allergy, Autoimmunity, and Inflammation

Message from the Guest Editors

Atopic dermatitis (AD) is a multifactorial, chronic inflammatory skin disorder affecting millions worldwide, with rising prevalence and significant impact on quality of life. Despite advances in understanding its complex pathogenesis—spanning genetic predisposition, immune dysregulation, epidermal barrier dysfunction, and environmental triggers—critical gaps remain in deciphering the molecular networks driving disease heterogeneity, progression, and therapeutic resistance. Recent breakthroughs in omics technologies, CRISPR-based functional studies, and high-resolution imaging have unveiled novel insights into cytokine signaling, neuroimmune interactions, and microbiome–host crosstalk. However, challenges persist in translating these findings into personalized therapies and biomarkers for diverse AD endotypes. This Special Issue, “Decoding the Molecular Landscape of Atopic Dermatitis”, invites reviews, perspectives, or opinions and original research articles addressing unresolved questions in AD pathogenesis.

Guest Editors

Dr. Ge Peng

Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo 113-8421, Japan

Prof. Dr. Francois Niyonsaba

Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo 113-8421, Japan

Deadline for manuscript submissions

30 November 2026



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



mdpi.com/si/240203

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, CAPlus / 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 16.8 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).