Special Issue

Lipid Homeostasis: Mechanisms, Regulation, and Implications for Health and Disease

Message from the Guest Editors

Lipid homeostasis is fundamental to cellular function, energy storage, and membrane dynamics, impacting a wide range of physiological processes and disease states. This Special Issue seeks contributions that explore recent advances in lipid metabolism, regulatory pathways, and lipid-related cellular functions. We welcome studies on lipid synthesis and degradation, lipid transport and signaling, the role of lipids in metabolic diseases, and mechanisms underlying lipid balance in response to environmental and genetic factors. Submissions may include original research, reviews, and perspectives on the molecular regulation of lipid homeostasis, lipid–protein interactions, lipidomics, and emerging therapeutic approaches targeting lipid imbalances in metabolic disorders. By bringing together diverse insights, this Issue aims to advance our understanding of lipid homeostasis and inspire new strategies for disease prevention and treatment.

Guest Editors

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Deadline for manuscript submissions

25 March 2026

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/224049

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Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).