

## Special Issue

# Exploring the Cellular Basis of Steatotic Liver Disease: Insights and Advances

### Message from the Guest Editor

Metabolic dysfunction-associated steatotic liver disease (MASLD) has emerged as a leading cause of chronic liver disease worldwide, with its progression ranging from simple steatosis to more severe conditions such as metabolic dysfunction-associated steatohepatitis (MASH), fibrosis, and cirrhosis. Despite its prevalence, the cellular mechanisms underlying MASLD and its progression are still not fully understood. This Special Issue of *Cells* aims to explore recent insights into the cellular basis of fatty liver disease, shedding light on the complex interplay between hepatocytes, hepatic stellate cells, Kupffer cells, and immune cells in the context of lipid metabolism, inflammation, and fibrosis.

Furthermore, this Special Issue will highlight advanced in vitro and in vivo models and discuss novel biomarkers and potential therapeutic strategies targeting cellular pathways to mitigate disease progression. We invite contributions that cover cellular signaling, lipid metabolism, mitochondrial dysfunction, oxidative stress, and the role of the gut–liver axis, offering new perspectives on both the pathogenesis and potential therapeutic avenues for NAFLD.

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### Guest Editor

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### Deadline for manuscript submissions

closed (31 May 2025)



## Cells

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## About the Journal

### 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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