### Special Issue

# The Role of Lipids in Cardiovascular and Neurodegenerative Diseases

#### Message from the Guest Editors

Lipid molecules, such as glycerolipids, glycerophospholipids, and sterol lipids, are essential for both physiological processes and disease mechanisms. In cardiovascular diseases, dysregulated lipid metabolism drives atherosclerosis, leading to heart attacks and strokes. The balance between LDL and HDL cholesterol and the inflammatory responses triggered by lipid accumulation underscore the complexity of lipid involvement in cardiovascular health. Similarly, in neurodegenerative diseases like Alzheimer's and Parkinson's, lipids play key roles in maintaining neuronal structure. Dysregulation of lipid homeostasis, particularly involving cholesterol, contributes to pathological aggregates, neuroinflammation, and oxidative stress, accelerating disease progression. This Special Issue compiles the latest research on the roles of lipids in these diseases, offering insights into mechanisms and potential therapeutic targets. We welcome original research and reviews in areas including lipid biology, lipidomics, cardiovascular disease, and neurodegeneration

#### **Guest Editors**

Dr. Yuanyuan Ji

Dr. Ronghui Gu

Dr. Yaxin Li

#### Deadline for manuscript submissions

31 May 2026



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Biology Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 biology@mdpi.com

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Research Programme in Molecular and Integrative Biosciences, Faculty of Biological and Environmental Sciences, University of Helsinki, P.O. Box 56, FI-00014 Helsinki, Finland

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