Special Issue

MicroRNAs in Lipid Metabolism

Message from the Guest Editor

MicroRNAs and other small non-coding RNAs are critical regulators of mRNA and protein expression that participate in essential biological and cellular processes. Over the past few decades, several microRNAs have been identified as regulators of different genes and functions associated with lipid metabolism and the development of cardiometabolic diseases, including obesity, atherosclerosis and metabolic syndrome. Lipid-regulatory microRNAs have been identified in key metabolic tissues, including the liver, adipose tissue, macrophages, and brain, among others, highlighting their significant role in the regulation of these molecules. However, while advancements in sequencing tools have accelerated the identification of microRNAs involved in lipid-associated diseases, the development of microRNA-based therapies remains challenging, particularly regarding their specific delivery, safety and potential use as non-invasive biomarkers. We invite the submission of scientific works focused on lipid metabolism and microRNA regulation in metabolic diseases. While original research articles are highly encouraged, we also welcome review articles that comprehensively cover this topic.

Guest Editor

Dr. Pablo Fernández-Tussy

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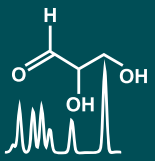
Deadline for manuscript submissions

31 December 2025



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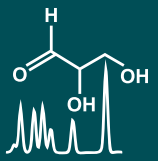

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Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

Editor-in-Chief

Dr. Amedeo Lonardo
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