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Adipose Tissue, Obesity, and Metabolic Diseases

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Deadline for manuscript
submissions:

31 March 2025

Message from the Guest Editor

Struggles against hunger represent a significant aspect of human history, but recent technological innovations are promising to end this. However, the widespread availability of high-fat diets due to advancements in animal husbandry and food processing has increased obesity and metabolic diseases, posing urgent global health challenges. Research in molecular biology, genetics, optics, and bioinformatics has shown that adipose tissue is not just a fat storage depot but plays a crucial role in energy balance, endocrine function, and lipotoxicity. These findings have highlighted the complex pathways governing adipose tissue dynamics and their relationships with multiple organs, impacting metabolic diseases. Despite these advances, much still remains to be discovered.

This Special Issue, “Adipose Tissue, Obesity, and Metabolic Diseases”, will collect relevant research to allow a deep understanding of the role of adipose tissue role in metabolic diseases, aiming to pave the way for innovative therapeutic strategies to combat obesity and its complications.

- adipose tissue
- obesity
- metabolic diseases
- stress
- inflammation
- gut microbiota



mdpi.com/si/212093

Special Issue



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