

Special Issue

Thermogenic Adipocytes and Skeletal Muscle: Novel Molecular Targets for the Treatment of Diabetes and Obesity

Message from the Guest Editor

This Special Issue, “Thermogenic Adipocytes and Skeletal Muscle: Novel Molecular Targets for the Treatment of Diabetes and Obesity,” highlights recent advances in elucidating the coordinated regulation of energy expenditure by brown and beige adipocytes and thermogenic skeletal muscle. Emerging evidence indicates that these metabolically active tissues share developmental origins as well as endocrine and neural regulatory networks, positioning them as central hubs in systemic glucose and lipid metabolism. Original contributions addressing molecular signaling pathways, inter-tissue communication, mitochondrial biogenesis, and the effects of exercise or pharmacological interventions are particularly encouraged. By integrating basic and translational research, this Issue aims to identify novel molecular targets and therapeutic strategies for metabolic diseases, including obesity and type 2 diabetes, ultimately promoting the development of innovative treatments that harness the body’s intrinsic thermogenic capacity.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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