

Special Issue

Profiling of Bone Marrow Adipose Tissue Cells and Metabolism

Message from the Guest Editors

Bone marrow adipose tissue (BMAT) represents a metabolically unique adipose depot within the skeletal system. BMAT interacts with other bone marrow niches, affecting hematopoietic and skeletal system health. Being responsive to nutritional, environmental, and hormonal stimuli, bone marrow adipocytes have important endocrine and metabolic roles that can overcome the bone marrow niche. A postnatal increase in human BMAT occurs during aging, and its overexpansion can be associated with the progression of obesity, diabetes, skeletal diseases, and malignancies. However, we still do not understand the molecular background of BMAT maintenance and expansion, nor the metabolic reprogramming that leads to the establishment of an undesirable BMAT phenotype. Revealing the metabolic reprogramming involved in the cellular identity of BMAT can contribute to novel strategies for the improvement of human health during aging and with pathologies. For this, new approaches defining the metabolic profile of BMAT at the cellular and molecular levels are required. This Special Issue will include research articles and reviews that aim to elucidate BMAT cell metabolism in aging and diseases.

Guest Editors

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About the Journal

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

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