Special Issue

Molecular Regulation of Exercise on Adipose Tissue and Related Diseases

Message from the Guest Editor

Excess expansion of visceral adipose tissue, accompanied by lower vascularity, increased lipid content of adipocytes, dysregulated adipokines, and dysfunction of adipogenesis, causes the development of metabolic syndrome with adipose tissue hypoxia and inflammation. Habitual exercise is known to reduce fat mass and ameliorate several inflammation-related events. Growing evidence suggests that habitual exercise results in the beiging of subcutaneous adipose tissue in rodents and affects the differentiation potency of adipose tissue-derived stem cells. Nonetheless, the molecular mechanisms underlying habitual exercise-induced healthy adipose tissue remain unclear. This Special Issue, "Molecular Regulation of Exercise on Adipose Tissue and Related Diseases", welcomes both original papers and review articles addressing updates on molecular and cellular targets of exercise to improve dysfunction of adipose tissue, which comprises various cell types. New insights into the mechanisms by which exercise can manage diseases linked to obesity are particularly welcome.

Guest Editor

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