Special Issue

Role of PPAR Receptors in Human Health and Disease

Message from the Guest Editors

The research on cannabinoids and congeners is currently growing. Among the different classes of receptors related to the activity of these molecules, a great attention has been focused on the role of peroxisome proliferator-activated receptors (PPARs). The family of PPARs encompasses three distinct members named PPAR□, PPAR□/□, and PPAR□. PPAR□ activity is mainly implicated in the metabolism of lipids, carbohydrates, and amino acids; PPAR□ is mostly involved in the regulation of adipogenesis, energy balance, and lipid biosynthesis; PPAR□/□ regulates fatty acid oxidation in skeletal and cardiac muscles. There is compelling evidence demonstrating that both natural and synthetic ligands, such as fatty acids, eicosanoids, phytanic acid, fibrates, palmitoylethanolamide, etc., can be used to regulate the expression and function of PPARs for the treatment of various human disorders. Therefore, the understanding of the molecular mechanisms and role of PPARs in nutrition and therapeutic treatment is the focus of this Special Issue.

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Deadline for manuscript submissions

closed (30 November 2019)

Molecules

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