



PPARs Triad in Human Health and Disease: Agonistic and Antagonistic Interplay of the Receptors

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Message from the Guest Editor

Chronic disorders such as diabetes, obesity, neurodegenerative and progressive conditions, atherosclerosis, and cancer are responsible for the most deaths. There is evidence that a group of related nuclear receptors, named peroxisome proliferator-activated receptors (PPARs), may be involved in these disorders. PPAR α activity is principally involved in the metabolism of lipids, carbohydrates, and amino acids; PPAR β/δ controls fatty acid oxidation in cardiac and skeletal muscles; PPAR γ is mainly implicated in the regulation of lipid biosynthesis, adipogenesis and energy balance, and lipid biosynthesis. There is convincing evidence indicating that both natural and synthetic ligands can be potential therapeutic strategies to control the expression and function of PPARs for the treatment of various human disorders. In addition, it appears that each PPAR may exert agonist or antagonist actions on the others in the different tissues. We aim to bring together the recent advances in the various aspects of the action of PPARs, from basic science to applied therapeutic approaches, and provide new insights into our understanding of the PPARs triad.





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Message from the Editor-in-Chief

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