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Columns: Editorial

Peroxisome proliferator-activated receptors as targets to treat non-alcoholic fatty liver disease

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Abstract

Lately, the world has faced tremendous progress in the understanding of NAFLD pathogenesis due to rising obesity rates. PPARs are transcription factors that modulate the expression of genes involved in lipid metabolism, energy homeostasis and inflammation, being altered in diet-induced obesity. Experimental evidences show that PPAR-alpha is the master regulator of hepatic beta-oxidation (mitochondrial and peroxisomal) and microsomal omega-oxidation, being markedly decreased by high-fat (HF) intake. PPAR-beta/delta is crucial to the regulation of FOXO-1 expression and, hence, the modulation of enzymes that trigger hepatic gluconeogenesis. In addition, PPAR-beta/delta can activate hepatic stellate cells aiming to the hepatic

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