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Current Trends in Xenobiotic Sensing Nuclear Receptor Research— The Many Facets of PXR and CAR

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Message from the Collection Editors

The nuclear receptor PXR (pregnane X receptor, NR1I2) is a ligand-modulated transcription factor that is involved in many cellular processes in liver and intestine. Besides functioning as a xenosensor in drug metabolism and transport, and its involvement in drug-drug interactions, PXR contributes to additional processes, such as the regulation of glucose and lipid metabolism. In cancer cells, PXR is involved in the regulation of cell proliferation and the development of chemoresistance. Due to its manifold roles, the development of both agonists and antagonists as potential therapeutics against metabolic diseases and cancer is of great interest.

In order to highlight the recent findings in PXR research, this Special Issue seeks manuscript submissions for original and review articles from all research disciplines.



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Topical Collection



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