2027 | Volume Volume - 12 - Issue Issue - 1

In this issue

Research Article

Open Access Research Article PTZAID:IJPSDR-12-159

Repaglinide-Indinavir Pharmacokinetic and Pharmacodynamic Interaction: Non-Clinical Evaluation in Hepatic and Diabetic Impairment models

Published On: April 14, 2026 | Pages: 009 - 016

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Background: Repaglinide, used for postprandial glucose control, is extensively metabolized by cytochrome P450 enzymes and transported by OATP and P-glycoprotein, making it susceptible to pharmacokinetic interactions. Indinavir, an antiviral protease inhibitor, affects metabolic and transport pathways, thereby altering the pharmacokinetic and pharmacodynamic profile of ...

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Open Access Research Article PTZAID:IJPSDR-12-158

Application of the Gradient Descent Method for Optimization of Spin System Parameters of Metabolite Molecules by NMR Spectra

Published On: January 31, 2026 | Pages: 001 - 008

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Nuclear Magnetic Resonance Spectroscopy is an effective physical method for metabolite fingerprinting, which involves the simultaneous and extensive analysis of a wide variety of compounds. The main disadvantage of the method, which hinders the progress of NMR metabolomics, is the need for manual processing of complex NMR spectra of biological samples. To automate the ...

Abstract View Full Article View DOI: 10.17352/ijpsdr.000058