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Pharmacokinetics and Pharmacodynamics of Psychoactive Substances: Clinical and Forensic Aspects 2023

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Message from the Guest Editor

Dear Colleagues,

This Special Issue aims to cover the chemical structure, available products, pharmacokinetics, pharmacodynamics, metabolomics, clinical manifestations, diagnostics, and treatment of acute intoxications related to psychoactive substances in order to highlight their impact on public health. To better understand the clinical and forensic effects, pharmacokinetics should be explored to find active and inactive metabolites and other biomarkers. Indeed, polymorphisms in genes encoding enzymes (e.g., CYP2B6) involved in metabolism or target receptors may influence both drug efficacy and toxicity. Besides genetics, the extensive metabolism by P450 can lead to important interactions when drugs are taken concomitantly. The identification of additional metabolites is also needed during drug development and for clinical and forensic toxicology, where specific metabolites are used to confirm xenobiotic exposure as potential biomarkers.



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Special Issue



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