

Special Issue

Insights into the Pharmacology, Toxicology, and Clinical Applications of Hallucinogens

Message from the Guest Editors

This Special Issue aims to cover, in a broad spectrum, the physicochemical characteristics, structure versus activity relationship, pharmacokinetics, pharmacodynamics, pharmacogenetics, psychological and physiological effects, and toxicity of hallucinogens to provide comprehensive and systematic knowledge on their biological risks and potential medicinal benefits. Special emphasis will be put on the toxicological perils associated with drug–drug pharmacokinetic interactions. Furthermore, the impact of interindividual pharmacogenetic variability on toxicity and therapeutic efficacy of hallucinogens, especially concerning polymorphisms in gene-encoding enzymes involved in metabolism (e.g., CYP450 isoforms) and/or in target receptors will be thoroughly scrutinized. The identification of additional metabolites, which may be pharmacologically/toxicologically active and responsible for enhanced therapeutic properties or toxicity, will be also highlighted, these being of further relevance as alternative biomarkers for drug exposure confirmation and treatment monitoring.

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