

Special Issue

Molecular Toxicology of New Drugs: New Insights

Message from the Guest Editor

The number of molecules with pharmacological activities is growing and involves both small organic molecules and macromolecules. It also includes novel psychoactive substances such as synthetic cannabinoids, synthetic opioids, or cathinone, for which only few data are available regarding the pharmacotoxicological profiles. Regardless of whether these compounds are used for a recreational or therapeutic purposes, a complete toxicity assessment is needed, both at the systemic and the molecular levels.

This Special Issue is dedicated to the broad array of molecular mechanisms triggered by new drugs with a special focus on molecular biology in both in vitro and in vivo studies. The use of omics approaches will provide new insights into the cellular and organ-specific pathways following new drug administration. Studies on the pharmacokinetics and pharmacodynamics will also be considered, as well as the investigation of their effect on endogenous metabolites. Studies combining recent analytical approaches, such as molecular network, and biological experiments to decipher the toxicity of new drugs and their related metabolites will be included in the scope.

Guest Editor

Prof. Dr. Pascal Houzé

Faculté de Pharmacie, Université Paris Descartes, Sorbonne Paris Cité,
75006 Paris, France

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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