

Special Issue

Pharmacological and Toxicological Insights into Bioactive Natural Products: From Traditional Use to Mechanistic Understanding

Message from the Guest Editors

This Special Issue aims to provide a multidisciplinary platform for exploring the dual nature of natural products as both therapeutic agents and potential toxicants. It welcomes original research and review articles focusing on chemical characterization, pharmacokinetics, pharmacodynamics, toxicological profiling, and mechanisms of action of plant, marine, and microbial metabolites. Studies addressing the safety assessment, structure–activity relationships, and interactions with conventional drugs are also encouraged. By integrating experimental, computational, and clinical approaches, this collection seeks to bridge pharmacognosy, pharmacology, and toxicology, highlighting the importance of evidence-based evaluation of natural products. Within the existing literature, this Special Issue aims to consolidate recent advances and critical perspectives, contributing to a more rational and safe use of natural compounds in medicine, food, and nutraceutical applications. Ultimately, it aspires to stimulate collaboration across disciplines and foster a deeper understanding of nature-derived molecules as complex chemical entities with therapeutic promise and toxicological relevance.

Guest Editors

Dr. Maria Loreta Libero

Department of Pharmacy, “G. d’Annunzio” University, 66100 Chieti, Italy

Dr. Simonetta Cristina Di Simone

Botanic Garden “Giardino dei Semplici”, Department of Pharmacy, “G. d’Annunzio” University, 66100 Chieti, Italy

Deadline for manuscript submissions

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Toxics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
toxics@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

Editor-in-Chief

Dr. Demetrio Raldúa
Department Environmental Chemistry, IDAEA-CSIC, Jordi Girona 18,
08034 Barcelona, Spain

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the second half of 2025).