

Special Issue

Enzymes Reacting with Organophosphorus Compounds

Message from the Guest Editor

It is a great pleasure and honor to invite you to contribute to the Special Issue of *Molecules* entitled “Enzymes Reacting with Organophosphorus Compounds”. This Special Issue welcomes manuscripts describing original work, as well as review articles on structures, modes of action, and biological roles of enzymes reacting with organophosphorus compounds: acetylcholinesterase, butyrylcholinesterase, paraoxonase, neuropathy target esterases, and other OP hydrolyses. They will be pleased to accept and review manuscripts that address but are not restricted to the topics listed below:

- Advances in research on kinetics and the mechanism of the enzymes action;
- Cholinesterase inactivation by natural and synthetic ligands;
- The reactivation of cholinesterases inhibited by nerve agents and insecticides;
- Structural studies on native enzymes, their complexes with ligands, and their conjugates with organophosphorus compounds;
- Advances in the biology of the enzymes and their cholinergic cross talk and involvement in neurological diseases;
- The regulation and alternative roles of acetylcholinesterases.

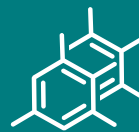
Guest Editor

Prof. Dr. Zrinka Kovarik

Institute for Medical Research and Occupational Health, Zagreb, Croatia

Deadline for manuscript submissions

closed (31 December 2020)



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

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About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).