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. The 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

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Deadline for manuscript submissions

closed (31 December 2020)

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About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

Editor-in-Chief

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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).