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Cholinesterase Inhibitors

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Deadline for manuscript submissions:
closed (31 August 2019)

Message from the Guest Editor

Dear Colleagues,

Acetylcholinesterase (AChE, EC 3.1.1.7) plays a pivotal role in cholinergic transmission in the central nervous system and at the neuromuscular junctions (NMJ). Even if its physiological role has not yet been identified, butyrylcholinesterase (BChE, EC 3.1.1.8), also named pseudocholinesterase, is well known to play a role in metabolizing bioactive esters (e.g., succinylcholine, cocaine). The effects of cholinesterase inhibitors (ChEIs) have been investigated in diseases associated with a cholinergic deficit, such as Alzheimer's disease (AD) and other dementias. Although ChEIs afford mostly a symptomatic response to AD patients, the development of new ChEIs (e.g., multifunctional ligands, selective BChE inhibitors) remains of interest to treat neurodegenerative diseases.

In this Special Issue, we invite you to submit original research papers or reviews, which report on the design, synthesis, and biological evaluation of novel ChEIs.

Dr. Ludovic Jean
Guest Editor

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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.

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