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Recent Drug Design Strategy of the Design of Molecules against Alzheimer's Disease and Parkinson's Disease

Guest Editors:

Dr. Bijo Mathew
Department of Pharmaceutical Chemistry, Amrita School of Pharmacy, Amrita Vishwa Vidyapeetham, AIMS Health Sciences Campus, Kochi 682 041, India

Prof. Dr. Orazio Nicolotti
Dipartimento di Farmacia-Scienze del Farmaco, Università degli Studi di Bari "Aldo Moro", Bari, Italy

Deadline for manuscript submissions:
closed (31 January 2023)

Message from the Guest Editors

Dear Colleague,

Alzheimer's disease (AD) and Parkinson's disease (PD) are the most prevalent of the heterogeneous and complex neurodegenerative disorders (NDDs) that largely affect the elderly patients. Their pathogenesis has been attributed to a variety of genomic, epigenomic, and environmental factors. Mounting evidence indicates that drugs targeting a single pathway cannot adequately address the multifactorial nature of NDDs. Oxidative stress, mitochondrial dysfunction, and imbalances in the levels of enzymes that control the metabolism of biogenic amines may promote NDD progression. On the other hand, several molecular scaffolds have been designed to simultaneously target entities such as choline esterase (ChE), monoamine oxidases (MAOs), and β-site amyloid precursor protein cleaving enzyme 1 (β-secretase, BACE-1), to retard NDD progression.

Topics to be covered include the following:

- Multi-target design of the molecules for AD;
- Multi-target design of the molecules for PD;
- Natural isolates for AD and PD;
- Synthesis and Biological evaluation for the treatment of AD and PD.

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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

Message from the Editor-in-Chief

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Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (*Chemistry (miscellaneous)*)

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Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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