

## Special Issue

# Molecular and Cellular Studies of Natural Compounds as Potential Therapeutics in Basal Ganglia Disorders

### Message from the Guest Editors

Basal ganglia disorders are characterized by the presence of abnormal movements, psychiatric symptoms and different degrees of cognitive impairment. Scientific evidence demonstrates that increased output of the basal ganglia inhibits thalamocortical projection neurons, leading to increased inhibition of the ventral anterior and ventral lateral thalamocortical projection neurons, with the subsequent inability to initiate voluntary movement. These disorders are known as hypokinetic disorders and include Parkinson's disease. The molecular and cellular mechanisms for abnormal increases or decreases in basal ganglia output are not yet well understood. However, a variety of molecular alterations have been reported in the pathogenesis of basal ganglia disorders including toxic aggregate formation, transcriptional dysregulation, et al. This Special Issue has the aim to summarize the state of the art and the latest findings published in the field of basal ganglia disorders, as well as elucidating future directions to discover novel natural compounds as potential therapeutics for the treatment of these disorders.

### Guest Editors

Dr. Letizia Pruccoli

Department for Life Quality Studies, University of Bologna, 40126 Bologna, Italy

Prof. Dr. Andrea Tarozzi

Department for Life Quality Studies, University of Bologna, 40126 Bologna, Italy

### Deadline for manuscript submissions

closed (31 December 2022)



## Pharmaceuticals

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*Pharmaceuticals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[pharmaceuticals@mdpi.com](mailto:pharmaceuticals@mdpi.com)

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Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química Estrutural (CQE), Institute of Molecular Sciences, Faculdade de Ciências, Universidade de Lisboa, Lisboa, Portugal

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