

Tentative Outline

Special Thematic Issue for the journal *CURRENT NEUROPHARMACOLOGY*

Title of the Thematic Issue - **Discovery of Natural Products against neurodegenerative diseases**

Guest Editors: Guest Editor: Luciana Scotti

Co-Guest Editor: Marcus T. Scotti

- **Scope of the Thematic Issue:**

Neurodegenerative diseases include Alzheimer's disease (AD), amyotrophic lateral sclerosis (ALS), Parkinson's disease (PD), and Huntington's disease. These diseases involve different aspects of reward processing (primary rewards, secondary rewards, reward-based learning, and reward-based decision-making). About 70% of the population with 65 years or more are affected by these progressive neurodegenerative disorders of the central nervous system and characterized by gradual loss of cognitive function, progressive memory loss, disorientation, language impairment, abnormal behavior, personality changes, etc. The secondary metabolites, biochemical end-products of living organisms; molecules such as alkaloids, flavonoids, xanthenes, coumarins, and others, are usually referred to as Natural products. These compounds are derived from microorganisms, marine species, or microorganisms, but especially from plants. Approximately ninety-five percent of the world's biodiversity continues to present a rich source of compounds which can be used for treating and curing various diseases; and it is still untapped. The many beneficial effects of these products on human health, such as antiviral, anti-allergic, antiviral, anti-allergic, antiplatelet, anti-inflammatory, antitumor, antioxidant and anti-parasitic activities are undeniable proven and over sixty percent of existing drugs are either of natural or semisynthetic origin, being based on pharmacophores derived from nature.. This thematic issue will bring studies of different methodologies, applied in order to optimize the search for new natural drugs for the cure and treatment of neurodegenerative diseases.

Keywords: Alzheimer's disease, amyotrophic lateral sclerosis, Parkinson, Huntington's disease, natural products, target, neurodegenerative.

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- rational drug design, synthetic chemistry, bioorganic chemistry, high-throughput screening, combinatorial chemistry, compound diversity measurements, drug absorption, drug distribution, metabolism, new and emerging drug targets, natural products, pharmacogenomics, and structure-activity relationships.
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Tentative titles of the articles and list of contributors:

Tentative titles of the articles and list of contributors with their names, designations, addresses and email addresses should be provided.

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Schedule:

✧ Thematic issue submission deadline:

Tentative submission deadline: 15, May 2022.

Tentative submission of revised manuscript: 20 July 2022.

Submission of issue: 10, August 2022.

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