

THEMATIC ISSUE

Phytochemicals for mental and motor dysfunctions: from chemistry to medicine

Aims & Scope:

CNS & Neurological Disorders - Drug Targets aims to cover all the latest and outstanding developments on the medicinal chemistry, pharmacology, molecular biology, genomics and biochemistry of contemporary molecular targets involved in neurological and central nervous system (CNS) disorders e.g. disease specific proteins, receptors, enzymes, genes.

CNS & Neurological Disorders - Drug Targets publishes guest edited thematic issues written by leading scientists in the field covering a range of current topics of CNS & neurological drug targets. The journal also accepts original research articles, letters, reviews and drug clinical trial for publication.

As the discovery, identification, characterization and validation of novel human drug targets for neurological and CNS drug discovery continues to grow; this journal is essential reading for all pharmaceutical scientists involved in the drug discovery and development.

Abstract:

Phytochemicals are compounds that are present in our daily life. They are present in many vegetable species and are utilized in many medicines used in ancient times as well as in modern times. Many of these molecules with simple and complex chemical structures have been used for different therapeutic treatments, and for treating chronic illnesses like cancer. Notwithstanding, it has been found that some of these molecules have unusual biological activities related with chemical moieties in specific diseases. In behavior and motor dysfunctions, phytochemicals of wide spectra have been able to displace the commercial drugs due to low cost of production and/or isolation from natural sources, and low cytotoxicity, that makes it possible to use them in an alternative and effective way against neurological diseases.

The aim of this special issue is to compile diverse references of phytochemicals involved in the treatment of behavioral diseases like anxiety, as well as of the advances in the use of these compounds from natural sources as therapeutic alternatives in motor dysfunctions that affect the central nervous system (CNS). Synthesis, isolation, biochemical mechanisms of action as well as structure-activity relationship studies are included in the scope of the contributions. The editors hope that the research presented in the issue will help us to better understand the possible use of compounds from natural/synthetic sources in the treatment of CNS diseases that are still difficult to cure.

Guest Editor:

Eduardo Sobarzo-Sánchez

Laboratory of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Santiago de Compostela, Spain and, Instituto de Investigación e Innovación en Salud, Facultad de Ciencias de la Salud, Universidad Central de Chile, Chile.

Seyed Mohammad Nabavi

Applied Biotechnology Research Center, Baqiyatallah University of Medical Sciences, Tehran, Iran.

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