

Tentative Outline

Special Thematic Issue for Current Neuropharmacology

Title of the Thematic Issue:

Cutting-edge Updates in the Diagnostics and Therapeutics of Neurological Disorders

Executive Guest Editors: Jiehui Jiang, Woon-Man Kung

• Aims & Scope:

Pathologies of the Central Nervous System (CNS) causing neurological disorders can lead to catastrophic consequences. Treatments regarding CNS insults are further interfered by the difficulties for medicine to cross the blood-brain barrier. Novel tailored insights to the CNS diseases regarding pharmaceuticals, medicinal plants, and drugs are challenging. Emerging comprehensive basic, applied sciences and translational researches through traditional and complementary approaches; as well as molecular, cellular, and animal experiments identifying the underlying pathway mechanisms are welcomed. Recent developments in imaging strategies through nanotechnology-based molecular interactions, radiopharmaceuticals, and nuclear medicine additionally promote beneficial roles in the field through precise analysis. A variety of emerging neuroimaging technologies could assist in potential drug development by understanding and predicting the causal underlying mechanisms. Researches with specific focus on imaging modalities are therefore encouraged. Further application of big data bioinformatics approaches including computational medicinal chemistry and biological researches are essential in amending improvements and advancements of the devastating CNS etiology of disease.

This Thematic Issue aims to bring a multidisciplinary perspective and updated integrative vision for researcher scientists and healthcare providers to apply their practical combination of diagnostics and therapeutics for neurological disorders in the real world.

Keywords: CNS diseases; diagnostics; therapeutics; pathway mechanisms; neuroimaging strategies; big data computational bioinformatics

Subtopics:

The subtopics include but are not limited to the following:

- Precision and personalized medicine in CNS diseases
- Targeted therapy in CNS malignancies
- Ethnopharmacology in CNS diseases
- In vivo, In vitro, Ex vivo studies for CNS diseases
- Recent advances in neuroimaging to provide detailed information for individuals requiring drug treatments
- Systems biomedicine to CNS diseases
- Computational biopharmaceutics and neuroepidemiological researches using population-based database or large registries
- Bioinformatics with machine learning approaches to CNS diseases

Tentative titles of the articles and list of contributors:

Pharmacological advances in regenerative medicine in CNS disorders

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Multimodality treatments for malignant glioma

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A Multiple-modality Pattern of Multiple System Atrophy Based on FDG PET/CT and MRI

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Neuroimaging analysis for patients with subjective cognitive decline

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Diagnosis of Alzheimer's disease based on Tau PET imaging

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Schedule:

✧ Manuscript submission deadline: July 31, 2021

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