

Tentative Outline

Special Thematic Issue for the journal "Current Topics in Medicinal Chemistry"

Title of the Thematic Issue: Neurochemistry of psychosis

Guest Editor: Drozdstoy Stoyanov

- **Scope of the Thematic Issue:**

This thematic issue will focus on explanatory mechanisms of neurochemical interactions, which underpin the development of psychosis. It will deliver summary of recent advances in laboratory studies to capture signatures of disease on the level of biochemical pathways and molecular signatures of disease. Those will encompass essential and faculty metabolism (neuro-active substances) of neurons as well as their relation to other significant pathways such as oxidative stress and immune modulation as possible demarcations of new diagnostic classes.

Further novel chemical and molecular targets for augmentation of pharmacological treatment efficacy will be investigated with special emphasis on therapeutic resistance to antipsychotic treatment and the factors which contribute to it.

Significant counterpart of the thematic issue will approach the problem of prognostic and co-morbidity biomarkers.

Keywords: medicinal chemistry; neurotransmitters; neuromodulators; psychopharmacology; neurobiology; catecholamine

Sub-topics:

- Psychopharmacology of antipsychotic resistance
- Biomarkers of prognosis
- Drug abuse and psychosis
- Novel pharmacological targets

Tentative titles of the articles:

- Biological signatures of brain diseases: from symptoms to biomarkers
- The contributions of complex neuroscience and neurochemistry to definition of psychiatric diagnosis
- Activation of the AGE-RAGE-AXIS in methamphetamine (MA) abuse and MA-induced psychosis: association with oxidative stress and increased atherogenicity
- Research and Diagnostic Algorithmic Rules (RADAR) and RADAR plots for schizophrenia
- New pharmacological targets for the treatment of first episode of psychosis
- Is the dopaminergic hypothesis of schizophrenia still valid? An update
- Neurochemistry of Delusions
- A guideline towards neuroscience-informed clinical psychiatry: levels of integration

Schedule:

- ✧ Thematic issue submission deadline: 30th August 2023

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