

## Tentative Outline

### Special Thematic Issue for the journal *Current Neuropharmacology*

#### Central histamine in neuropsychiatric disorders

Guest Editors: Prof. Zhong Chen

• **Scope of the Thematic Issue:**

Neuropsychiatric disorders, including schizophrenia, anxiety, depression, addiction, eating disorders, sleeping disorders, cognitive deficits, and others, have become the leading causes of disability and death worldwide. Despite the enormous medical burden and clinical needs, little is known about the pathological mechanisms behind the neuropsychiatric symptoms and the therapies for neuropsychiatric disorders are limited.

Histamine is a significant neurotransmitter and modulates a wide range of brain functions through four histamine receptors (H1R-H4R). Disruptions of the histaminergic system have been proved to potentiate cognitive impairment and behavior abnormality in various neuropsychiatric disorders. Recent advances in neural circuit-specific manipulation techniques such as optogenetics and chemogenetics help to decipher the relationship of a signal histaminergic circuit with a certain behavior phenotype in neuropsychiatric disorders. Moreover, histamine receptors have been reported to be promising therapeutic targets for many neuropsychiatric disorders. The development of novel histamine receptor ligands not only provides more tools for exploring the functions of these receptors but also shed light on the drug discovery of neuropsychiatric disorders.

This special issue of *Current Neuropharmacology* addresses the current topics in the study of histaminergic circuits and histamine receptors in basic and clinical research to drive the development of new therapies for neuropsychiatric disorders.

**Keywords:** Histamine, neuropsychiatric disorders, histamine receptors, neural circuits, histamine receptors ligands, histamine pharmacology

#### Sub-topics:

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

- Histaminergic circuits and neuropsychiatric disorders;
- Targeting histamine receptors in neuropsychiatric disorders;
- Development of novel histamine receptor ligands.

#### 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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**Tentative Title: histamine and feeding disorder**

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**Tentative Title: histamine and neuroinflammation**

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**Tentative Title: histamine and depression/anxiety**

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**Tentative Title: histamine and alcohol use disorder**

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**Tentative Title: Drugability of CNS histamine receptor in neuropsychiatric disorders**

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**Tentative Title: histamine and cognitive impairment**

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**Tentative Title: histamine and neuropathic pain**

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**Tentative Title: histamine and neurodegenerative diseases**

**Schedule:**

✧ Thematic issue submission deadline: 2021.4.1

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