

## Tentative Outline (Preliminary Proposal of Thematic Issue)

### Special Thematic Issue for the journal CNS & Neurological Disorders Drug Targets

**Title of the Thematic Issue: "Precision Medicine, Neuroinflammation, and Transcriptomics in CNS and Neurological Disorders"**

*Sectional Editor: Dr. Hyunsu Lee*

- **Scope of the Thematic Issue:**

Neuroinflammation is a complex process that plays a role in a wide range of CNS and neurological disorders. In recent years, there has been growing interest in the use of precision medicine approaches to better understand the underlying molecular mechanisms of these disorders and to develop targeted therapies that can modulate the immune response in the CNS. Transcriptomics, including single-cell transcriptomics and spatial transcriptomics, are powerful tools that can be used to identify novel targets and pathways associated with neuroinflammation and CNS disorders.

**Keywords:** Neuroinflammation; Precision medicine; Single-cell transcriptomics; Spatial transcriptomics; Genomics; Drug discover and development; Therapeutic approach

#### Sub-topics:

- **Single-Cell Transcriptomics:** Use of single-cell transcriptomics to identify new targets and pathways related to neuroinflammation and to develop precision medicine approaches to treatment.
- **Spatial Transcriptomics:** Use of spatial transcriptomics to visualize immune cells in the CNS and to identify novel targets and pathways related to neuroinflammation.
- **Genomics and Proteomics:** Use of genomics and proteomics to identify biomarkers and drug targets associated with neuroinflammation and CNS disorders.
- **Drug Discovery and Development:** Development of drugs that target immune cells in the CNS, such as microglia and astrocytes, to treat neuroinflammation and CNS disorders.
- **Therapeutic Approaches:** Use of precision medicine approaches for the treatment of neuroinflammatory conditions such as Alzheimer's, Parkinson's, multiple sclerosis, and stroke.

#### Schedule:

- ✧ Thematic issue submission deadline: **2023-12-31**

#### Contacts:

*Section Editor Name: Dr. Hyunsu Lee*

*Affiliation: Department of Medical Informatics School of Medicine Keimyung University, South Korea*

*Email: neuroana@kmu.kr*