

Tentative Outline

Special/Thematic Issue for the Journal CNS & Neurological Disorders - Drug Targets

Advances in Genomics and Gene Therapy for Neurological Disorders

Guest Editor: Dr. Gregory Kirschen

Scope of the Thematic Issue:

The scope of this special issue is to highlight original research articles and high-quality review articles on the rapidly expanding area of genomics research as well as novel therapeutics for an array of neurodevelopmental and neurodegenerative conditions. Genetic manipulation using adeno-associated viruses (AAVs) and other gene-delivery systems are commonly employed in the experimental setting and increasingly in the clinical setting in clinical trials for genetic conditions including, for instance, spinal muscular atrophy (SMA) and Duchenne muscular dystrophy (DMD). This special issue solicits articles related to all areas of genomics, big data analysis, diagnostics, and gene therapy research for neurological conditions.

Keywords: Genome-wide association study, Viral vectors, RNA sequencing, CRISPR, Genetic medicine, Genetic engineering, Delivery systems

Sub-topics:

- Neurological disorders that may be amenable to gene therapy (Parkinson disease, Alzheimer disease, Huntington disease, ALS)
- Genetic basis of neurological disorders
- Gene delivery systems
- Preclinical studies, clinical trials
- Gene therapy challenges, ethical considerations

Schedule:

- Complete Thematic issue submission deadline: **October 1, 2023**

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