

Special Issue

Advances in Neurodevelopmental Disorders (NDDs) Research

Message from the Guest Editors

Advances in the identification and validation of various neurodevelopmental disorder (NDD) genes and biomarkers, together with the expansion of robust disease phenotype detection technologies and bioinformatics tools, have enabled molecular profiling and diagnosis for many NDDs and led to the identification of many novel molecular targets and pathways that may be targeted for treating patients. These discoveries have created new frontiers for investigators to conduct basic and translational research to investigate underlying molecular and systems neuroscience mechanisms to help develop novel therapeutic strategies as well as performance metrics for future pre-clinical research and clinical trial preparedness. Our understanding of the genetics of NDDs has deepened considerably over the past decade, contributing to the rapid emergence of opportunities for disease-modifying therapies by understanding the molecular mechanisms that drive pathogenesis. Therefore, we believe now is the right time for launching a special issue to highlight the ongoing basic and translational research focused on molecular and circuit mechanisms targeting disease modification in NDD.

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