

## Special Issue

# The Role of Specific Alteration in Neurological Disorders: From Molecular Mechanisms to Therapeutic Strategies

### Message from the Guest Editors

Neurological disorders are profoundly characterized by structural and functional alterations in neuronal and non-neuronal networks resulting from complex genetic and environmental factors during intrauterine, perinatal, and/or postnatal life periods. Several neurological disorders have been described so far in humans and reproduced in genetic and/or pharmacological animal models. Importantly, over the last few decades, it has become clear that the identification of specific dysfunctional mechanisms leading to a neurological disorder is of crucial importance and represents the first step for the design of new therapeutic strategies. For example, recent studies in different animal models of neurodevelopmental disorders have clearly shown that the polarity of GABAergic neurotransmission is altered, rendering benzodiazepine treatment ineffective or even exacerbating the pathological phenotype. Thus, experimental identification of the specific alteration (i.e., polarity of GABAergic neurotransmission) has played a pivotal role in the opening of new therapeutic perspectives for these diseases.

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### Guest Editors

Dr. Gabriele Deidda  
Dr. Massimo Pierucci  
Dr. Anna Cavaccini

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### Deadline for manuscript submissions

closed (20 April 2025)



## International Journal of Molecular Sciences

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