The Immune System in Neurobehavioral Diseases: Research Progress

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Message from the Guest Editors

Scientists are investigating the complex interplay of immune responses within the central nervous system, shedding light on how immune dysregulation may contribute to conditions such as Alzheimer, Parkinson, autism, schizophrenia, and other diseases.

One key focus is the role of neuroinflammation, where immune cells activated in the brain influence neural circuits and contribute to cognitive and behavioral changes. Researchers are uncovering specific immune molecules and pathways involved in these processes, providing potential targets for both prophylactic and therapeutic interventions. Investigations into the gut–brain axis highlight the influence of the microbiome on immune activity and its impact on neurobehavioral health. Moreover, advancements in technology such as imaging techniques and single-cell analysis also enable a more detailed understanding of immune responses in the context of neurobehavioral diseases.

This Special Issue welcomes innovative pathogenic and therapeutic concepts, focused reviews and diverse perspectives about the intricate connections between the immune system and the manifestation of neurobehavioral diseases.

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Special Issue

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Message from the Editor-in-Chief

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