Special Issue

Advances in Parkinson's Disease

Message from the Guest Editor

Parkinson's disease (PD) is one of the most challenging neurodegenerative disorders, marked by a complex interplay of motor, cognitive, and autonomic impairments that evolve over years. Since its earliest clinical descriptions, research on PD has expanded from characterizing motor symptoms to mapping the neural circuits, biochemical pathways, and systemic alterations that drive disease progression. In recent decades, transformative developments have occurred in high-resolution neural recording, wearable sensing, advanced neuroimaging, and computational tools capable of identifying subtle physiological signatures long before overt symptoms emerge. We aim to bring together cutting-edge research spanning basic mechanisms, translational discoveries, and emerging therapeutic strategies. We seek contributions that deepen our mechanistic understanding, ranging from synaptic dysfunction and network-level changes to alterations in motor variability, neuromuscular synchronization, and sensorimotor integration. Studies employing machine learning, quantitative signal analysis, digital biomarkers, neuromodulation, and innovative clinical trial designs are particularly encouraged.

Guest Editor

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