

Special Issue

Parkinson's Disease: Recent Advances in Diagnosis and Treatment

Message from the Guest Editors

Current diagnostic criteria for Parkinson's disease (PD) rely on clinical criteria, and early diagnosis remains a challenge. Researchers have made significant strides in identifying reliable biomarkers to detect the disease earlier, even before motor symptoms appear.

Neuroimaging, utilising technologies like MRI, PET, and SPECT, has similarly advanced the diagnosis and management of these disorders. The digital revolution has transformed diagnosis through wearable sensors and smartphone applications, enabling objective measurement of disease progression and treatment response in daily life. Artificial intelligence algorithms analyze these data with clinical information, potentially detecting prodromal PD in its motor and non-motor manifestations. Moreover, investigations into the gut microbiome have emerged as both a diagnostic marker and therapeutic target. In treatment, beyond dopamine replacement, novel drug targets or disease-modifying therapies are showing promise in clinical trials. The future points toward precision medicine approaches that take into account each patient's unique biological, genetic, and environmental factors to create tailored treatment regimens.

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