



Drug Targets and Associated Therapeutic Treatments for Parkinson's Disease

Guest Editor:

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Message from the Guest Editor

Parkinson's disease (PD) is multifactorial age-related brain disease characterized by bradykinesia, fatigue, irregular blood pressure and major muscle-stiffness-associated difficulties. Despite extensive research, there is no cure for PD. To make scientific advances regarding therapeutic discoveries and mechanistic approaches to determining the basis of PD progression, PD modeling is a critical step. Currently, available cellular and genetic rodent models remain inefficient. For example, iPSC-based disease modeling and iPSC (induced pluripotent stem cell)-derived neurons (iNs) are not mature enough to recapitulate age-related pathological events, which instead require tools that can accelerate iNs maturation. In a different study, a disease-causing agent extracted from the human brain, supplemented with an in vitro growth media to induce PD pathogenesis, was proven to be a powerful approach to studying pathogen-specific disease induction, which is rapid and pathogen-species-specific; however, it does not eventually mimic the progressive manner of disease.





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Message from the Editor-in-Chief

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