

Special Issue

Molecular Genetics of Assay Technology

Message from the Guest Editor

Advancements in molecular genetics have increased both diagnostic and predictive capabilities in healthcare. Protein misfolding, accumulation, and aggregation are common features in many neurological disorders, including Alzheimer's disease (AD) and Parkinson disease (PD). Understanding the assays to detect the above as well as how they may improve over time is critical for translational research. The general principle of proteinopathies is that they change conformation, lose their normal function, and gain toxicity, yet there is no structural understanding of how altered protein conformations or aggregates trigger neuronal dysfunction. iPSCs generate from patients using reprogramming technology may help this understanding. Next-generation sequencing (NGS), droplet digital PCR, and genome-wide sequencing have advanced the field of molecular diagnostics for cell-free nucleic acids analyses.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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