



Molecular Genetics of Assay Technology

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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 generated 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.





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Message from the Editor-in-Chief

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