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AREVIEW

Protein misfolding and neurodegenerative disease

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ABSTRACT

Many chronic neurodegenerative disorders diseases and systemic amyloidosis, are thought to arise from the misfolding and aggregation of an underlying protein. Recent findings strongly support this hypothesis and have increased our understanding of the molecular mechanism of protein conformational disorders. Genetic mutations are the root cause for protein misfolding in rare families, but the majority of patients have variable forms possibly related to environmental factors. Diverse human disorders, including several neurodegenerative. Nanoneuro medicine which means the development of small drug formulations for the diagnosis and treatment of degenerative, inflammatory, infectious, vascular, addictive, behavioral and metabolic disorders of the nervous system, will provide a focus for each of the scientific sessions marked due to deposits of misfolded or aggregated proteins.

Key Words : Protein misfolding, Neurodegenerative diseases, Alzheimer's disease, Nanotechnology, Amyloid

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