

Project #14

Title: Identification of alpha synuclein antibodies that identify disease relevant protein conformations

Description: Synucleinopathies are a group of neurological disorders that are characterized by abnormal aggregation of alpha synuclein protein in the nervous system. Therefore various lines of research related to the understanding and management of these disorders primarily target alpha synuclein. New and improved diagnostic tools and therapeutic strategies are crucial for early detection and effective treatment of these disorders including Parkinson's disease, Dementia with Lewy Bodies and Multiple System Atrophy.

Dr. El-Agnaf's laboratory works on developing diagnostic biomarkers, immunoassays and identifying novel therapeutic targets for synucleinopathies. The project proposed herein would be aimed at identifying synuclein conformations that are specific to neurological disorders using antibodies that detect specific forms of the protein.

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