



Summer Research Program 2024 – Projects

Project #1

Title: Development and optimization of biomarker assays for synucleinopathies

Description: Synucleinopathies are a group of neurological disorders that are characterized by abnormal aggregation of alpha-synuclein protein in the nervous system. New and improved diagnostic tools and therapeutic strategies are crucial for the early detection and effective management of these disorders including Parkinson's disorder, Dementia with Lewy Bodies, and Multiple System Atrophy.

Dr. El-Agnaf's laboratory works on developing diagnostic biomarkers, and immunoassays and identifying novel therapeutic targets for synucleinopathies. The project proposed herein would be aimed at identifying synuclein-based biomarkers for neurological disorders using conformation-specific antibodies developed in the laboratory.

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Seeding amplification Assay

