

Outline of Foundational Study Data

Platform	Data	Platform	Data
Clinical	Demographics; questionnaires relating to function, mood & quality of life, caregiver burden, medical & family history, medications; disease-specific tests.	Molecular/ Neuropathology	Blood based biomarkers to verify clinical diagnosis. Optional platform for definitive NDD diagnosis via autopsy of spinal cord & brain tissue samples.
Eye Tracking	Pro- & anti-saccadic & free-viewing eye movements, pupulography and blink rates investigated in relation to sensory, motor, autonomic & cognitive function.	Neuroimaging	Structural volumes, white matter hypointensity, regional diffusivity using T1, T2, FLAIR, gradient echo, resting state & DTI images.
Gait & Balance	Gait profile (velocity, stride length) during single & dual tasks, balance & transitions assessments, questionnaires related to fear of falling & activities of daily living.	Neuropsychology	Cognitive profiles of attention, memory, language, visuospatial & executive function as well as speech production.
Genomics	DNA extraction from serum & plasma with analyses of the ONDRI Seq (panel of 81 rare genetic variations) & NeuroX chip assays to determine rare monogenic & polygenic susceptibility in NDD.	SD-OCT Imaging	Macular & peripapillary nerve fibre layer thickness measurements across multiple sectors.

Note: New assessment platforms being adapted to current ONDRI research studies