Clinical and Imaging biomarkers for definition of neurodegenerative pathways in Parkinson disease (sponsored by H. Lundbeck A/S)

Parkinson disease is a progressive neurodegenerative disorder with significant social burden and cost. Medical and surgical treatments are available but neuroprotection remains an unmet need. Candidate is expected to work closely with a team of neurologists, psychologists and biologists in defining variables best suited as biomarkers for disease early detection and differential diagnosis as well as to monitor progression. Candidate will have access to the clinical and imaging database of Parkinson patients from the Padua movement disorders unit as well as to a public databases including PPMI. Data collected by the use of biosensors will be integrated with clinical variables in selected cases. Progression models will be used to estimate the effect of therapeutic strategies and define intervention in collaboration with interested drug companies.