Pre-Congress Symposium 5  
Neuroimaging Committee  

Wednesday, October 6, 09:00-12:05

Session Title
Imaging of Protein Misfolding in Parkinson’s Disease and Related Disorders - Where are we and What do we need?

Chairperson
Matthias Brendel (Munich, Germany)

Programme

09:00 - 09:25    Silvia Morbelli (Genoa, Italy): Molecular Neuroimaging of PD and Related Disorders - Current State

09:25 - 09:50    Gabor Kovacs (Toronto, Canada): Amyloid and Tau Pathology in PD, DLB, PSP/CBD and MSA

09:50 - 10:15    Nicolaas Bohnen (Michigan, United States of America): Relevance of Amyloid Imaging in Parkinson’s Disease and Related Disorders

10:15 - 10:30    Break

10:30 - 10:55    Henryk Barthel (Leipzig, Germany): Tau Imaging in PSP/CBD - Ready for Clinical Trials?

10:55 - 11:20    Lauren Walker (Newcastle, United Kingdom): Alpha-Syn Pathology in PD, DLB, PSP/CBD and MSA

11:20 - 11:45    John Seibyl (New Haven, United States of America): Alpha-Syn Imaging in PD, MSA and DLB - Will We Ever Get There?

11:45 - 11:48    Summary by Chairperson

11:48 – 12:10    Live Discussion & Q&A’s

Educational Objectives
1. Understand the neuropathological basis for imaging of misfolded proteins in neurodegenerative diseases with Parkinsonism
2. Know the relevance of amyloid and tau PET imaging in Parkinson’s Disease and Related Disorders
3. Know the current status of tracer development for alpha synuclein

Summary
This pre-congress symposium covers the current development of radioligands for tau and alpha-syn. Neuropathologists will shed light on the presence of the imaging target in the brain of patients with different forms of Parkinsonism. The relevance of amyloid-PET as an established protein biomarker will complete the spectrum of misfolded proteins. Tau-PET will be critically questioned towards its current status in disease modifying trials. The final talk will provide an outlook on alpha-syn imaging.

Key Words
amyloid; tau; alpha synuclein; Parkinsonism; multiple systems atrophy; progressive supranuclear palsy; corticobasal syndrome; Lewy body