Programme | Day 2

Session 5 - Biomarkers, diagnostic tools and digital tech | Chair: Prof Dag Aarsland
9-10am
Blood phosphorylated tau in the Alzheimer’s disease continuum: exploring preclinical and clinical applications
Dr Nicholas Ashton (University of Gothenburg/ King’s College London)
PET imaging biomarkers in Alzheimer’s disease and other dementia
Dr Paul Evelhoch (Imperial College London)
Feasibility of technology in the early detection of dementia
Sarah Wilson (Newcastle University)
Characterising Aβ methylolation signatures of dementia risk
Dr Rosie Walker (The University of Edinburgh)

10-10.45am
Microbiota-gut-brain axis in the development of Alzheimer’s: a role for neuroinflammation and hippocampal neurogenesis
Prof Ivonne Molan (University College Cork)
Gut microbes, neuroinflammation and Alzheimer’s disease: determining the immunoregulatory role of gut microbiota on brain and behaviour
Dr Edina Silajdzic (King’s College London)

10.45-11.15am
Break

Session 6 - Beyond the brain (Gut-brain axis in neurodegenerative disease) | Chair: Dr Emmanuele Vire
11.15am-12.15pm
Tau in the gut: should we really care?
Prof Pascal Derkinderen (University of Nantes)
Microbiota-gut-brain axis in the development of Alzheimer’s: a role for neuroinflammation and hippocampal neurogenesis
Prof Ivonne Molan (University College Cork)
Using tau truncations to understand the pathological actions of oligomers in single neurons
Dr Emily Nuy (University of Warwick)

12.15-12.30pm
Break

Session 7 - Frontotemporal dementia | Chair: Prof Selina Wray
11.15am-12.15pm
Genetic frontotemporal dementia in the UK: from tau to trials
Dr Jonathan Rohrer (University College London)
Science and sausages: a decade in SPB Lab
Dr Sarah Ryan (The University of Manchester)
Drosophila, dipeptide-Repeats and disease: modelling C90712 related dipeptide-repeats over 1000 repeats in flies
Dr Ryan West (The University of Sheffield)

12.15-12.30pm
Autophagy and endolysosomal defects in cells expressing disease-associated tau
Dr Susie Pollack (King’s College London)
Disruption of ER-mitochondria tethering and signaling in C9orf72-associated amyotrophic lateral sclerosis and frontotemporal dementia
Dr Patricia Gomez-Suaga (University of Extremadura)
Using tau truncations to understand the pathological actions of oligomers in single neurons
Dr Emily Nuy (University of Warwick)

12.30-2pm
Lunch, exhibitors and posters

Session 8 - Preventable and metabolic factors influencing dementia | Chair: Prof Joseph Bateman
2-3pm
Plant-based diets, dementia risk, and cognition
Prof Anne Marie Minihane (University of East Anglia)
Preventable and metabolic factors influencing dementia
Prof Robert Stewart (King’s College London)
The interplay between age, apolipoprotein E and metabolism in patients developing Alzheimer’s disease
Prof Cornelia van Duijn (University of Oxford)
The effect of APOE on the relationship between modifiable risk factors and cerebral small vessel disease: the PREVENT-Dementia study
Dr Audrey Low (University of Cambridge)

3.30-4.30pm
Aberrant neuronal networks in the medial entorhinal cortex of mouse models of dementia pathology
Dr Jon Brown (University of Exeter)
Spatial and temporal-selective dysfunction of synaptic circuits in Alzheimer’s disease
Dr Alfio Ali (University College London)
Unravelling the association of amyloid β and tau with synaptic and axonal loss in Alzheimer’s disease
Dr Assoc. Prof Ioanna Pelessi (Harrisons Institute)
In vivo synaptic density PET in behavioural variant of frontotemporal dementia
Dr Maria Melianni (University of Cambridge)

3.30-4.30pm
Break

Session 9 - Synaptic and network dysfunction | Chair: Dr Marco Brancaccio
3.30-4.30pm
Aberrant neuronal networks in the medial entorhinal cortex of mouse models of dementia pathology
Dr Jon Brown (University of Exeter)
Spatial and temporal-selective dysfunction of synaptic circuits in Alzheimer’s disease
Dr Alfio Ali (University College London)
Unravelling the association of amyloid β and tau with synaptic and axonal loss in Alzheimer’s disease
Dr Assoc. Prof Ioanna Pelessi (Harrisons Institute)
In vivo synaptic density PET in behavioural variant of frontotemporal dementia
Dr Maria Melianni (University of Cambridge)

4.30-5.15pm
Break and close