

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 <i>Dr Nicholas Ashton (University of Gothenburg/ King's College London)</i>
	PET imaging biomarkers in Alzheimer's disease and other dementia <i>Prof Paul Edison (Imperial College London)</i>
	Feasibility of technology in the early detection of dementia <i>Sarah Wilson (Newcastle University)</i>
	Characterising DNA methylation signatures of dementia risk <i>Dr Rosie Walker (The University of Edinburgh)</i>
Session 6 - Beyond the brain (Gut-brain axis in neurodegenerative disease)   Chair: Dr Emmanuele Vire	
10-10.45am	Tau in the gut, should we really care? <i>Prof Pascal Derkinderen (University of Nantes)</i>
	Microbiota-gut-brain axis in the development of Alzheimer's: a role for neuroinflammation and hippocampal neurogenesis <i>Prof Yvonne Nolan (University College Cork)</i>
	Gut microbes, neuroinflammation and Alzheimer's disease: determining the immunoregulatory role of gut microbiota on brain and behaviour <i>Dr Edina Silajdzic (King's College London)</i>
10.45-11.15am	Break
Session 7 - Frontotemporal dementia   Chair: Prof Selina Wray	
11.15am-12.15pm	Genetic frontotemporal dementia in the UK: from tau to trials <i>Dr Jonathan Rohrer (University College London)</i>
	Science and sausages: a decade in SPB Lab <i>Dr Sarah Ryan (The University of Manchester)</i>
	Drosophila, dipeptide-Repeats and disease: modelling C9orf72 related dipeptide-repeats over 1000 repeats in flies <i>Dr Ryan West (The University of Sheffield)</i>
Flash presentations   Chair: Dr Conceição Bettencourt	
12.15-12.30pm	Disruption of ER-mitochondria tethering and signaling in C9orf72-associated amyotrophic lateral sclerosis and frontotemporal dementia <i>Dr Patricia Gomez-Suaga (University of Extremadura)</i>
	Using tau truncations to understand the pathophysiological actions of oligomers in single neurons <i>Dr Emily Hill (University of Warwick)</i>
	APOE-ε4 genotype and sleep disturbance in individuals with and without dementia <i>Dr Jonathan Blackman (University of Bristol)</i>
	The Early Detection of Neurodegenerative diseases initiative: an international and multidisciplinary effort for transforming the early detection of dementia-causing diseases <i>Dr Federica Marinaro (Early Detection of Neurodegenerative Diseases, ARUK)</i>
	Autophagy and endolysosomal defects in cells expressing disease-associated tau <i>Dr Saskia Pollack (King's College London)</i>
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 <i>Prof Anne Marie Minihane (University of East Anglia)</i>
	Preventable and metabolic factors influencing dementia <i>Prof Robert Stewart (King's College London)</i>
	The interplay between age, apolipoprotein E and metabolism in patients developing Alzheimer's disease <i>Prof Cornelia van Duijn (University of Oxford)</i>
	The effect of ApoE4 on the relationship between modifiable risk factors and cerebral small vessel disease: the PREVENT-Dementia study <i>Dr Audrey Low (University of Cambridge)</i>
3-3.30pm	Break
Session 9 - Synaptic and network dysfunction   Chair: Dr Marco Brancaccio	
3.30-4.30pm	Abberant neuronal networks in the medial entorhinal cortex of mouse models of dementia pathology <i>Dr Jon Brown (University of Exeter)</i>
	Spatial and temporal-selective dysfunction of synaptic circuits in Alzheimer's disease <i>Dr Afia Ali (University College London)</i>
	Untangling the association of amyloid-β and tau with synaptic and axonal loss in Alzheimer's disease <i>Assoc. Prof Joana Pereira (Karolinska Institute)</i>
	In vivo synaptic density PET in behavioural variant of frontotemporal dementia <i>Dr Maura Malpetti (University of Cambridge)</i>
4.30-4.45pm	Prizes and close