Dr Katie Lunnon
Associate Professor in Epigenetics, University of Exeter Medical School
12.30 – 13.30
Wednesday 30 January 2019
Seminar room 10B, sub-basement, Commonwealth Building
Hammersmith Campus
Light lunch available from 12:00 in Wolfson Café

Epigenetics Mechanisms in Alzheimer’s Disease

Dr Lunnon is an Associate Professor in Epigenetics at the University of Exeter Medical School, with a particular interest in dementia. Her group published the first genome-wide, cross-tissue epigenome-wide association study (EWAS) in Alzheimer’s disease (AD) (Lunnon et al, Nat Neurosci-2014), which has been cited >200 times. This year her group published a follow up EWAS paper highlighting differential DNA methylation across an extended 48kb region in the HOXA3 gene in individuals with AD (Smith et al, Alzheimers Dement-2018). Dr Lunnon currently leads a team of three postdoctoral researchers and five postgraduate students, who are utilising a range of cutting-edge methodologies to elucidate the role of epigenetic mechanisms in dementia. They are using sophisticated bioinformatics approaches to meta-analyse all available AD EWAS datasets and also perform integrative multi-omics analyses in well characterised cohorts to combine different levels of molecular information. They are also performing a range of wet lab molecular and cellular biology experiments, including epigenetic editing in induced pluripotent stem cells (iPSCs).

Hosted by Professor Paul M Matthews (p.matthews@imperial.ac.uk)
Contact Dr Jennifer Podesta (j.podesta@imperial.ac.uk) to arrange to meet with the speaker

Find out more: http://www.imperial.ac.uk/dementia-research-institute/seminars--events/