**Pilot grant (\*and small equipment grant) awardees 2013-2020**

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| 2013 |  |
| Steven Chance  | Diffusion imaging of the cerebral cortex in dementia to measure a novel brain structural biomarker of early cortical change |
| Laura Parkkinen and Olaf Ansorge  | Technical support for project: Impact of Parkinson’s disease risk genes on the pathological end points |
| Heike Wobst and Richard Wade-Martins  | Elucidating the role of tau and its interaction with fyn in transgenic tau mouse models |
| 2014 |  |
| Samrah Ahmed | An investigation into the nature of memory impairment in posteriorcortical atrophy |
| Gabriele C. De Luca  | The role of mTOR in selective vulnerability in Alzheimer’s Disease |
| Mang Ching Lai  | Molecular mechanisms underlying haplotype-specific regulation of microtubule associated protein tau (MAPT) exon 3 splicing |
| 2015 |  |
| Tara Caffrey  | Haplotype sequence variants effect on the alternative splicing of the MAPT gene |
| Walther Haenseler  | Modelling neuroinflammation in Alzheimer’s Disease using iPS-microglia/cortical neuron co-culture |
| \*Laura Parkkinen  | Funding towards FLUOstar OMEGA Microplate Reader |
| \*Elena Ribe  | Eight channel, 4 roller cartridge perfusion pump system |
| \*George Tofaris  | Sonicator, fridge and freezer for iPSc work, blot transferring equipment, electrophoresis tank, pipette set for iPS hood, computer for HPLC machine |
| \*Heather Booth  | Objectives and filter cubes for EVOS fluorescence microscope |
| 2016 |  |
| Samrah Ahmed  | Developing an automated measure of limb apraxia in dementia |
| Zoi Alexopoulou  | Usp8 inhibitors against α-synuclein levels and aggregation  |
| Angela Bithell  | Construction of 3D in vitro human induced pluripotent stem cell-derived neuronal networks to model Alzheimer’s disease |
| Verena Heise  | Apolipoprotein E genotype effects on structure and function of the human hippocampal formation |
| Heyne (Cecilia) Lee  | Comparative study of LRRK2 in human induced pluripotent stem cell derived macrophages and glial cells. |
| Francesca Nicholls  | iPSC-derived astrocytes for high throughput screening of Aβ toxicity |
| Anya Topiwala  | Cognitive Resilience Index: predictive of future decline? |
| Mario Torso  | A novel diffusion-weighted magnetic resonance imaging tool for cortical architecture measurements |
| Nahid Zokaei  | Changes in memory and attention associated with ageing and APOE |

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| 2017 |  |
| Samrah Ahmed  | Investigating the diagnostic utility of spatial memory and orientation in Alzheimer's |
| Tara Caffrey  | Investigating the effect of tau on axonal transport and tau release in MAPT-iPSC cortical neuron models |
| Rowan Flynn  | Identifying Pathways Contributing to a Pro-Inflammatory Phenotype in FTD/ALS Patient iPSC-Derived Macrophages |
| \*Ivan Koychev  | Bluetooth beacons |
| \*Brent Ryan  | Optogenetic light source and controller for 96/384-well plates to allow uniform illumination of wells inside a cell-culture incubator. |
| Siv Vingill  | Analysis of tau secretion in iPS differentiated neuronal cultures |
| Michele Veldsman  | What makes strategic stroke strategic? Multimodal imaging and network methods to predict dementia after strategic stroke  |
| 2018 |  |
| Sana Suri  | Cerebrovascular health in older adults at a genetic risk for dementia |
| Shelly Coe  | Does mitochondrial and bioenergetic functioning relate to physical and cognitive fatigue and fatigability in Parkinson’s: a model for the Dementias. |
| Laura Thei  | Characterisation of iPSC microglia and their response to amyloid beta1-42 |
| Michael Kohl | Dissociating spatial from non-spatial memory deficits in AppNL-F/NL-F mice. |
| Angela Bithell  | Developing a human brain-relevant 3D neuronal/glial network model of Alzheimer’s disease |
| Olaf Ansorge  | Apha-synculein and TDP-43 autoregulation in ‘gatekeeper’ brainstem nuclei of human degenerative dementias: A window into selective vulnerability. |
| 2019 |  |
| Aadil El-Turabi | Chimeric mouse-human antibodies to α-synuclein for studying α-synuclein uptake and degradation by microglia |
| Julie Davies | Investigating allosteric modulation of Insulin Degrading Enzyme as a target for degradation of beta amyloid in Alzheimer’s disease |
| Michele Veldsman | Magnetic resonance imaging signatures of cardiovascular, cerebrovascular and genetic risk factors for Alzheimer’s disease |
| Andrey Kormilitzin  | Assessing synaptic health: towards the end-to-end approach to estimation of treatment effects of candidate compounds in neuronal cells using state-of-the-art deep learning model |
| Nahid Zokaei | The effect of the Apolipoprotein-e gene on short- and long-term memories  |
| Martina Cherubin  | Amyloid beta modulation of microglia Zn2+ homeostasis |
| Laura Thei | TRPM8 Ion Channel Distribution in Aged J20 Microglia  |
| 2020 |  |
| Dejan Draschkow  | Disentangling Contributions of the Hippocampus and Striatum in Efficient Memory-Guided Attention  |
| Emily Feneberg | The development of specific biomarkers for Alzheimer’s Dementia and TDP-43 proteinopathies |
| Helen Rowland | Comparing Aβ levels and ratios in the CSF and iPSC-derived neurons from patients with Alzheimer’s disease |
| Michele Veldsman | Investigating the impact of poor sleep on cardiovascular health and cognitive decline in ageing |
| Hazel Hall-Roberts | Development of a phagocytosis assay in iPS microglia-neuron co-cultures with “suicide neurons” to study role of complement

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| Eleni Kaisis | Therapeutic targeting of microglia lysosomal pH |
| Francesco Tamagnini | GSK-3β overactivation causes HCN-dependent alterations of neuronal excitability and network function in the Tau35 model |
| Luca Bettin | Zn2+ regulation of TREM-2 secretion |