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

|  |  |
| --- | --- |
| 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 posterior  cortical 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 |

|  |  |
| --- | --- |
| 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   |  |  | | --- | --- | |  |  | |
| 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 |