Brain Injury MedTech Co-operative



Regenerative Neuroscience MIC Theme 8

Dr Mark Kotter

The NIHR Brain Injury MedTech Co-operative is a partnership between the Cambridge University Hospitals NHS Foundation Trust and the University of Cambridge





























National Institute for Health Research





Strategy Regenerative Neuroscience



Year 1 Short-term	Preclinical: Human CNS cell models (Elpis BioMed Ltd., Axol Biosciences, Vallier) Clinical: Initiation of RECEDE Myelopathy (Kotter) Clinical: Development of Mobile App outcome measure prototype (Robert Harle) PPI: Registration of Myelopathy.org as charity
	Preclinical: Electrophysiology on a chip models of Autism (Baron-Cohen, Inventva Ltd., Elpis
Year 2-3	BioMed Ltd) and application to drug discovery Translational: PET initiative: imaging synapses, myelin, and descending spinal cord tracts
Medium - term	(Franklin) Clinical: Review of cell transplantation therapy strategies for SCI (Barnett, Choi) PPI: Online Delphi methodology for PPI consensus processes (Myelopathy.org)
Year 4-5 Long-term	Preclinical: In vitro modelling of human neuromuscular junctions, including Duchenne's disease (Elpis BioMed Ltd.), Human Leukodystrophy models and application to drug discovery (Rowitch) Clinical: PET initiative: synaptic imaging, myelination, neural connectivity (Aigbirhio) PPI: Qualitative research tools for PPI data (Myelopathy.org)
	Year 1 Short-term Year 2-3 Medium - term Year 4-5 Long-term





Pathway Mapping Regenerative Medicine & Stem Cells

National Institute for Health Research



Dr Mark Kotter

Consultant Neurosurgeon NIHR Clinical Scientist - University of Cambridge Scientific Founder Elpis - University of Cambridge spin-out



Human myocytes stained for MYOG and troponin T



Clinical Themes





Healthcare Technology Co-operative (2013-2017)

National Institute for Health Research



Brain Injury MedTech Co-operative



The Next Generation Launch Event

Wednesday 25 April 2018: Homerton College, CB2

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