



LifETIME CDT Student Day 2020

Thursday 10th September 2020

10:00 – 10:05

WELCOME

Professor Ivan Wall, *Professor of Regenerative Medicine, Cell & Gene Therapy Bioprocessing at Aston University*

Session chair: Prof. Ivan Wall

10:05 - 10:45

INDUSTRY PRESENTATIONS

Sanj Kumar, Atelerix Ltd
Alpesh Patel, Animal Free Research UK
Michael Jones, Cell Guidance Systems
Chris Allan, BiogelX
Niall Paterson, Terumo Aortic

10:45 – 10:55

DISCOVER THE CRACK-IT CHALLENGES

Anthony Holmes, Director of Science and Technology at NC3RS

10:55 – 11:05

INNOVATE UK – FUNDING OPPORTUNITIES

Michael Kipping, Innovation Lead - Biomedical Catalyst, Health Sector Team at Innovate UK

11:05 – 11:15

COMFORT BREAK

Session chair: Prof. Liam Grover

11:15 – 12:10

LIFETIME CDT STUDENT PRESENTATIONS

TOWARDS DEVELOPMENT OF EYE-SAFE MULTIPLEX RESONANCE RAMAN (ESMR2) DEVICE FOR POINT-OF-CARE NEURODIAGNOSTICS

Georgia Harris, *LifETIME CDT PhD Student at University of Birmingham*

INVESTIGATION AND TREATMENT OF TRABECULAR MESHWORK FIBROSIS USING 3D GLAUCOMA MODELS

Hannah Lamont, *LifETIME CDT PhD Student at University of Birmingham*

SCALE UP AND IN VITRO TESTING OF EXOSOMES FOR REGENERATIVE MEDICINE APPLICATIONS

Megan Boseley, *LifETIME CDT PhD Student at Aston University*



DEVELOPMENT OF A 3D MODEL OF THE CORTEX FOR THE INVESTIGATION OF NEURODEGENERATIVE DISEASES

Paige Walczak, *LifETIME CDT PhD Student at Aston University*

ORGAN-ON-A-CHIP PLATFORMS FOR THE STUDY OF TRADITIONAL CHINESE MEDICINE

Narina Bileckaja, *LifETIME CDT PhD Student at University of Glasgow*

ENGINEERED 3D PRINTED SCAFFOLDS TO CONTROL IMMUNOLOGICAL RESPONSES IN BONE REGENERATION

Simon Clarke, *LifETIME CDT PhD Student at University of Glasgow*

SMALL MOLECULE SIGNALING IN STEM CELL DIFFERENTIATION

Chara Dimitriadi Evgenidi, *LifETIME CDT PhD Student at University of Glasgow*

USING NOVEL COMBINATION THERAPIES TO TARGET ACUTE MYELOID LEUKAEMIA (AML)

Lauren Hope, *LifETIME CDT PhD Student at University of Glasgow*

INTERROGATING CANCER CELL DORMANCY FOR DEVELOPMENT OF NEW THERAPIES AGAINST METASTASIS

Elaine Ma, *LifETIME CDT PhD Student at University of Glasgow*

IDENTIFYING SELF-GENERATED GRADIENTS IN PANCREATIC CANCER USING FLIM-FRET

Elena Mandrou, *LifETIME CDT PhD Student at University of Glasgow*

ADVANCED COATINGS TO IMPROVE THE BIO-INTEGRATION OF VASCULAR GRAFTS

Lydia Styliani Marinou, *LifETIME CDT PhD Student at University of Glasgow*

REPROGRAMMING OF INDUCED PLURIPOTENT STEM CELLS TO 3D MODEL BONE AND CARTILAGE FORMATION

Maria Laura Vieri, *LifETIME CDT PhD Student at University of Glasgow*



TUMOUR-TARGETED HOMING OF MESENCHYMAL STEM CELL-DERIVED EXTRACELLULAR VESICLES (MSC-EVs): DEVELOPMENT OF 3D IN VITRO MODELS TO ELUCIDATE MECHANISMS CONTROLLING MIGRATORY ITINERARY

Yashna Chabria, *LifETIME CDT PhD Student at NUI Galway*

DEVELOPING A SOFT TISSUE DISEASED MODEL FOR DIABETIC FOOT ULCER USING A SCALABLE MANUFACTURING PLATFORM

Mirella Ejugwo, *LifETIME CDT PhD Student at NUI Galway*

DEVELOPMENT OF STATE-OF-THE-ART MULTICELLULAR MODELS OF THE 3D COLORECTAL TUMOUR MICROENVIRONMENT

Eileen Reidy, *LifETIME CDT PhD Student at NUI Galway*

DEVELOPING A THREE DIMENSIONAL (3D) IN VITRO MODEL OF ADRENOCORTICAL CARCINOMA (ACC) TO TEST THERMAL THERAPY APPLICATIONS

Eduardo Ribes Martinez, *LifETIME CDT PhD Student at NUI Galway*

TUNING MACROPHAGE POLARIZATION TO MODEL MYOCARDIAL INFARCTION IN THE GENERATION OF FUNCTIONAL CARDIAC ORGANOIDS

Meenakshi Suku, *LifETIME CDT PhD Student at Trinity College Dublin*