LifETIME CDT Student Day 2021

Tuesday 7th September 2021

09:30– 09:40	WELCOME & INTRODUCTION TO LIFETIME CDT Professor Liam Grover, *Professor of Biomaterials Science at University of Birmingham*
	Session chair: Professor Liam Grover
09:40 - 09:55	DEVELOPING THE RIGHT TOOLS TO PRECISELY ISOLATE IMPORTANT CELL POPULATIONS AT SCALE John Sharp, *Chief Operating Officer at Cytonome*
09:55 – 10:20	**ORGAN-CHIPS FROM POTENTIAL TO APPLICATION** Lorna Ewart, *Executive Vice President, Science at Emulate*
10:20 – 10:40	LIFETIME CDT 2019 COHORT 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*
10:40 – 11:00	COFFEE BREAK

Session chair: Professor Ivan Wall

11:00 – 11:15 **USE OF IN VITRO LUNG MODELS FOR EFFICACY AND TOXICITY ASSESSMENT OF PHARMACEUTICAL PRODUCTS**
Mary McElroy, *Associate Director, Discovery Pharmacology and Toxicology at Charles River Laboratories*

11:15 – 11:40 **A JOURNEY FROM ACHIEVING THE BANNING OF LAND MINES TO REGENERATIVE MEDICINE: FROM THE MINES ADVISORY GROUP TO THE SIR BOBBY CHARLTON FOUNDATION**
Lou McGrath, *Chief Executive of The Sir Bobby Charlton Foundation*

11:40 – 12:10 LIFETIME CDT 2019 COHORT PRESENTATIONS

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*

12:10 – 13:30 POSTER SESSION AND LUNCH

Session chair: Professor Liam Grover

13:30 – 13:55

BIOSYNTHETIC HYDROGELS FOR REGENERATIVE MEDICINE

Andrés J. García, *Executive Director, Parker H. Petit Institute for Bioengineering & Bioscience, The Petit Director's Chair in Bioengineering and Bioscience and Regents' Professor, George Woodruff School of Mechanical Engineering*

13:55 – 14:25

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*

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

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

14:25 – 14:35

CLOSING REMARKS

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