

lifetime in Birmingham



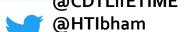
Professor Liam GroverUniversity of Birmingham











@DWLiam



















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← 3 MILES









Chemical Engineering Supervisors



(The Boss)



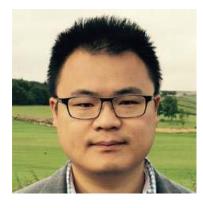






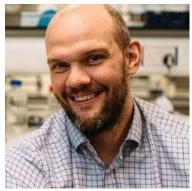












Other supervisors across campus......



















Plus many More.....

Facilities...

- Advanced Materials Characterisation Lab
- Musculoskeletal Tissues CMAR
- NIHR Surgical Reconstruction and Microbiology Research Centre (Trauma Centre)
- Scar Free Foundation Conflict Wound Centre
- Healthcare Technologies Institute
- Birmingham Advanced Light Microscopy Centre
- COMPARE (Centre of Membrane Proteins and Receptors)









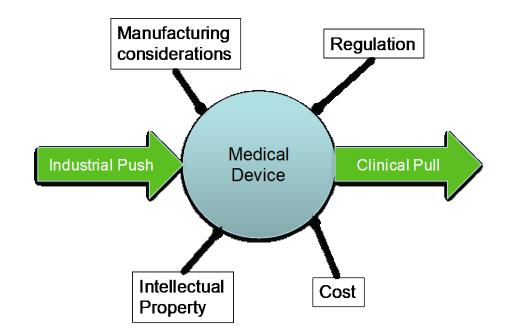
1000m² high quality lab space

Imaging

Cell culture

Process design

Assistance with all aspects of translation



Rotational Training - 2019



In October, the 2019 cohort visited the University of Birmingham & Aston University for the first week of the Rotational Training course.





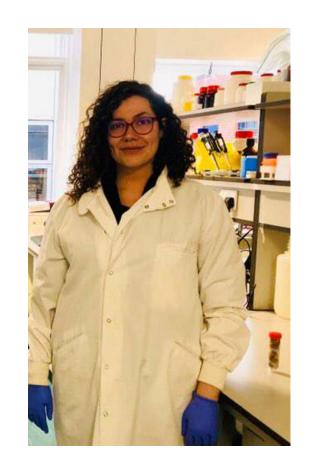


Project: Investigation and treatment of trabecular meshwork fibrosis using 3D glaucoma models

Hannah Lamont, lifETIME PhD student at the **University of Birmingham** is supervised by Dr Lisa Hill, Professor Alicia El Haj & Professor Liam Grover.

Stakeholder supervisor: Dr Michael Jones from Cell Guidance Systems Ltd

Hannah started her project in October 2019. The project aim is to design a novel in vitro 'organ on a chip' model to understand the pathology which occurs in the TM in glaucoma and to identify novel anti-scarring compounds for the treatment of glaucoma.





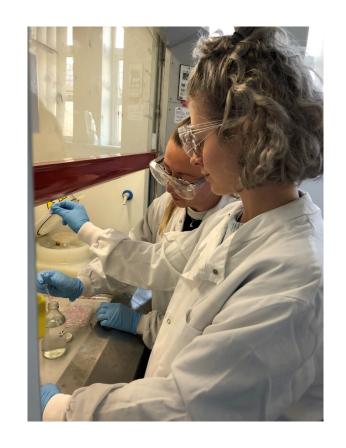


Project: Towards development of Eye-Safe Multiplex Resonance Raman (ESMR2) Device for Point-of-Care Neurodiagnostics

Georgia Harris, lifETIME PhD student at the **University of Birmingham** is supervised by Dr Pola Goldberg Oppenheimer.

Stakeholder supervisors: Dr Abigail Spear and Dr Chris Howle from DSTL

Georgia started her project in October 2019. The project aim is focused towards development and implementation of advanced technology for in-vivo human eye-Safe mMultiplex resonance Raman (ESMR2) device for Point-of-Care neurodiagnostics.









Project: Scale up and in vitro testing of exosomes for regenerative medicine applications

Megan Boseley, lifETIME PhD student at the **Aston University** is supervised by Professor Ivan Wall & Dr Petra Hanga.

Stakeholder supervisors: Dr Julian Braybrook and Dr Jonathan Campbell, LGC

Megan started her project in October 2019. The project aims to develop organ-on-a-chip in vitro models to study efficiency and actions of TCMs.







Project: Development of a 3D model of the cortex for the investigation of neurodegenerative diseases.

Paige Walczak, lifETIME PhD student at the **Aston University** is supervised by Dr Eric Hill (Aston) and Dr David Bassett (Birmingham)

Stakeholder supervisor: Don Wellings, Spheritech

Page started her project in October 2019 and the project aim is produce exosomes in large quantities that can be tested for different therapeutic applications.







Lake District trip – 14th – 18th September 2020



The 2019 cohort will visit the Raymond Priestley Centre in Coniston, Lake District in September.



Birmingham cohort activities

Projects:

University of Birmingham – 4 projects (2 started in 2019 and 2 starting in 2020) Aston University – 4 projects (2 started in 2019 and 2 starting in 2020)

Application deadline: 31 January 2020

Birmingham interviews: 26th & 27th February 2020

Next steps for Birmingham:

- Aiming to build cohort on a local level We span two separate locations
- Monthly meetings of University of Birmingham and Aston University CDT students and supervisors
 - Project updates
 - Journal club
 - Social activities



