PhD Studentship

UNIVERSITY OF CAMBRIDGE
Department of Paediatrics

Human intestinal epithelial cell biology in health and disease

Department of Paediatrics | University of Cambridge | **10th May 2017**

Fully funded 3 year PhD Studentship

Applications are invited for a fully funded 3-year PhD studentship under the joint supervision of Dr Matthias Zilbauer, Department of Paediatrics, University of Cambridge and Dr Bon-Kyoung Koo, Wellcome Trust - Medical Research Council Cambridge Stem Cell Institute, Cambridge UK.

The project will focus on investigating human intestinal epithelial cell biology in health and disease such as Inflammatory Bowel Diseases (IBD). One of the main methodological approaches will include the generation of mucosa derived human intestinal epithelial organoids as well as their genomic editing using CRISPR/Cas9. Additionally, genome wide epigenetic and transcriptomic profiling of organoids and primary patient derived gut epithelium will be performed.

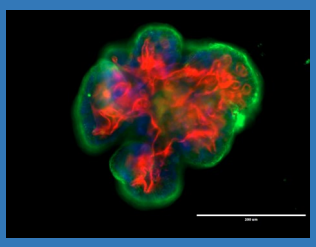
The successful candidate will benefit from established methodologies, existing patient -derived data/samples and a strong network of world leading collaborators (e.g. Cambridge Stem Cell Institute, European Bioinformatics Institute (EMBL-EBI)). The student joining our group will become part of a dynamic and committed multi-disciplinary team that includes basic and clinician scientists as well as a highly motivated clinical team, providing appropriate supervision in all aspects of the research. This will allow the student to acquire cutting edge research methodologies in a supportive environment where they can focus on making the best possible scientific progress.

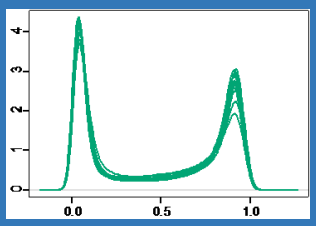
Our laboratory is situated at Addenbrooke's Hospital in the heart of the Cambridge Biomedical Research Campus (http://cambridge-biomedical.com), providing access to state of the art research facilities. As a graduate student at Cambridge, you will have access to a wide range of training opportunities and benefit from close supervision provided by a primary and secondary PhD supervisor as well as a personal mentor.

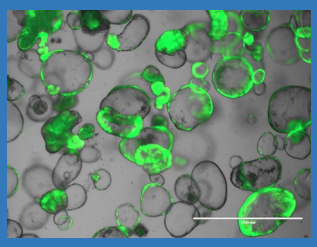
In summary, this PhD program offers the unique opportunity to work at the interface of basic science and clinical medicine aiming to train independent, innovative scientists capable of perusing translational research using cutting edge technology. Training will include both laboratory based molecular biological methods as well as bioinformatic skills allowing analysis of large data sets.

For further details on requirements and the application process please visit:

http://www.jobs.cam.ac.uk/job/13679/







3 year PhD Studentship
Fully funded including tuition fees, college fees and stipend

Application deadline
2nd July 2017

Contact
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