



Queen's University
Belfast

**School of Medicine, Dentistry
and Biomedical Sciences**

Postgraduate Research Opportunities for September 2012

Cancer Research and Cell Biology

- Identification of novel therapeutic approaches for clear cell ovarian cancer
(*Prof R Kennedy/ Dr P Mullan*)
 - Integrating epigenetics and expression data to identify commonly disrupted pathways in AML
(*Prof K Mills/ Dr F Emmert-Steib*)
 - Investigating the roles of Epigenetic Regulators in breast cancer pathogenesis and evaluating their potential as novel therapeutic targets
(*Dr P Mullan/ Prof R Kennedy*)
 - The role of radiation-induced bystander signalling between astrocytes and glioma cells on migration and invasion in 3D glioma models
(*Prof K Prise/ Dr T Flannery*)
 - Biological effectiveness of ion beams for improving particle radiotherapy
(*Dr G Schettino/ Dr F Currell*)
 - The role of the JAK1/2-STAT3 signalling pathway as a key mediator of drug resistance in early stage colorectal cancer
(*Dr S Van Schaeybroeck/ Prof P Johnston*)
 - Clinical and pre-clinical characterization of the importance of CXCL8 signaling in potentiating inflammatory mediated progression in PTEN-deficient prostate and colorectal cancers
(*Dr D Waugh/ Dr R Wilson*)
 - Developing a high-performance computing framework for gene-expression connectivity mapping
(*Dr S Zhang/ Prof P Hamilton*)
- **4 YEAR CR-UK PhD Studentship in Cancer Biology (*Dr Karen McCloskey*)**
Closing Date: Thursday 1 March 2012

Infection and Immunity

- Characterisation of the RamR protein: A Key Regulator of Virulence and Antimicrobial Resistance
(*Prof S Elborn/ Dr T Schneiders*)
- Investigating the role of CD4+ T cells in CNS remyelination
(*Dr D Fitzgerald/ Dr A Kissenpfennig*)
- The Role of Suppressor of Cytokine Signalling (SOCS1) in refractory asthma
(*Dr L Heaney/ Dr A Kissenpfennig*)
- SOCS regulation of lung macrophages in Pulmonary Inflammatory Disease
(*Dr A Kissenpfennig / Dr R Ingram*)
- Microbiological interactions and the development of biofilms and ventilator-associated pneumonia (VAP)
(*Dr F Lundy/ Prof D McAuley*)
- A role for Cathepsin S in chronic lung infection and inflammation
(*Prof C Taggart/ Prof S Elborn*)

You will spend three years undertaking a designed research project in a Research Centre.

More detailed information on the targeted studentships available can be accessed through the School of Medicine, Dentistry and Biomedical Sciences website and/or by contacting the relevant project supervisor at email addresses provided on the website. Additional studentships will be added as they become available.

<http://www.qub.ac.uk/schools/mdbs/>

To Apply:

Applicants should hold or expect to obtain a first class honours or upper second class degree (or equivalent). Specific projects may have additional criteria, details of which are available from the School website above.

Funding:

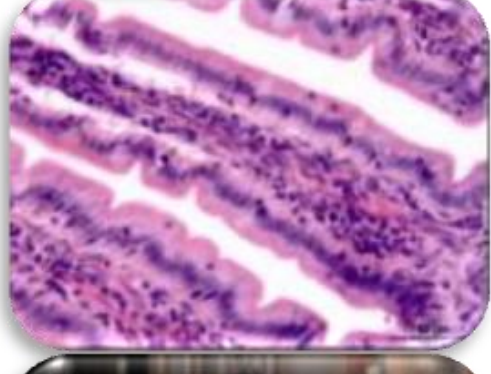
Funding is available for UK candidates (Fees and Maintenance) and may be available for candidates from the EU (subject to residency status).

Applications for admission and studentship awards must be made through the Queen's online application system at:

https://dap.qub.ac.uk/portal/user/u_login.php

Closing date for receipt of complete applications is (unless otherwise stated)

Friday 24th February 2011





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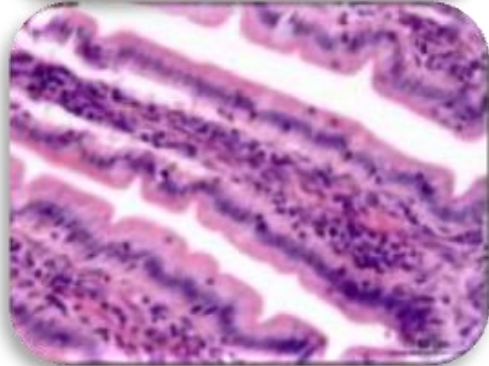
Public Health

- Beta-blocker/clopidogrel usage and cancer progression in patients with colorectal cancer
(*Dr C Cardwell/ Prof L Murray*)
- Prostate Cancer Investigation Regret: A study of regret associated with having undergone a prostate biopsy in the Island of Ireland
(*Dr A Gavin/ Prof L Murray*)
- The cost effectiveness of novel biomarkers for primary and secondary prevention of cardiovascular disease
(*Prof F Kee/ Dr K Cairns*)
- Retinal vessel attenuation – a potential biomarker for early diagnosis of renal and vision complications in diabetes?
(*Prof P Maxwell/ Dr G McKay*)
- An investigation into the atherogenic potential of HDL in women who deliver large for gestational age babies
(*Dr J McEneny/ Prof I Young*)
- The effect of cooking and processing of fruit and vegetables on the functionality of HDL_{2&3}
(*Dr J McEneny/ Dr J Woodside*)
- Epigenetic mechanisms in chronic kidney disease
(*Dr AJ McKnight/ Dr G McKay*)
- Peer support to encourage adoption and maintenance of Mediterranean diet: a feasibility and pilot study
(*Dr J Woodside/ Dr M McKinley*)



Vision and Vascular Sciences

- A systematic study of retinal structure and function in diabetic macular oedema
(*Prof U Chakravarthy/ Dr R Hogg*)
- Investigation of the therapeutic potential of obestatin peptides as a novel strategy for the dual treatment of hyperglycaemia and vascular dysfunction associated with type 2 diabetes
(*Dr D Grieve/ Dr B Green*)
- Investigating the Role of Endothelial Progenitor Cells (EPCs) in Wound Healing
(*Prof A Stitt/ Dr S McAllister*)
- Can diabetes reprogram retinal microglia for excessive or cytotoxic response to local and systemic insults?
(*Dr H Xu/ Prof A Stitt*)



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