UNIVERSITY OF CAMBRIDGE

MANCHESTER 1824
The University of Manchester

Post-Doctoral Position Available
Jan 2019 – Jan 2022

Joint appointment at The University of Cambridge & The University of Manchester

Maladaptive Cardiac Remodelling in Adult Offspring from Hypoxic Pregnancies: Role of Cellular Calcium Homeostasis

In addition to traditional risks, such as smoking and obesity, the quality of our prenatal development plays a key role in determining whether we suffer heart disease. The quality of our environment in the womb is determined by the available nutrient and oxygen supply. We have shown that reductions in oxygen delivery to the unborn can increase its risk of developing heart disease later in life. We propose maladaptive cardiomyocyte calcium handling is the cellular basis for cardiac dysfunction and that treatment of hypoxic pregnancies with antioxidants can protect against this. Applications are invited for a Post-Doctoral Scientist to carry out the programme of work to test this hypothesis.

The position is available for 3 years with a pensionable salary range of £31,604 – £34,520 per annum, pre-tax, funded by The British Heart Foundation. The starting basic salary will be finalised according to qualifications and experience. The post will be based primarily at the University of Manchester (supervised by Dr Gina Galli; https://www.research.manchester.ac.uk/portal/gina.galli.html), but will also involve work at The University of Cambridge (supervised by Prof Dino Giussani; https://www.pdn.cam.ac.uk/directory/dino-giussani).

Ideal Candidate

Applicants must have a PhD in cardiac biology or a discipline of physiology. The successful applicant will have relevant extensive experience in the coordination of projects with small animals models, such as rats, and the assessment of cardiomyocyte structure and function. Ideally, the candidate will have advanced practical understanding and experience of cardiac cell isolation techniques, fluorescent microscopy and electrophysiology. The project will require a good understanding of the interaction between cellular structure, intracellular calcium regulation and cellular function. Animal husbandry experience and Home Office Training would be a distinct advantage.

Applications

Applications should include a personal statement highlighting suitability to the post, detailed CV and the names and addresses of two academic referees. Please send the applications to arrive no later than October 1st 2018 to Prof Dino A Giussani, Department of Physiology, Development & Neuroscience, University of Cambridge, Downing Street, Cambridge CB2 3EG, UK. Further details can be obtained from **dag26@cam.ac.uk**