

JOB DESCRIPTION

Vacancy reference:	SRF29674
Post Title:	Postdoctoral Research Associate in Cardiac Signalling
Grade:	Grade 6
School/Department:	School of Biological Sciences
Reports to:	Angela Clerk
Responsible for:	None

Purpose

To investigate the effects of Raf kinase inhibitors on cardiac function and hypertrophy

Main duties and responsibilities

Experimental laboratory work:

- Managing experiments with mice.
- Ex vivo perfusions of rodent hearts.
- Primary cell culture experiments using rodent cardiac myocytes
- Characterisation of the effects of Raf kinase inhibitors on cardiac function and signalling in mice
- Application of cell biology, molecular biology and protein biochemistry techniques in understanding the molecular mechanisms underlying the effects of Raf kinase inhibitors on the heart.

Data analysis and presentation

- Writing research papers
- Presentation of research data, both internally and externally
- Contribution to future funding applications

Project management

- Liaise with users groups for BioResource and microscopy facilities
- Manage the consumables budget and accounts for the project.

Job descriptions cannot be exhaustive and the post-holder may, from time-to time, be required to undertake other duties, which are broadly in line with the above key responsibilities.

Supervision received

Supervision will be provided by Professor Angela Clerk, the Principal Investigator for the project, with input from Dr. Daniel Meijles, the Co-Investigator for the project. The level of supervision will be in line with that expected of an experienced post-doctoral researcher who has previously worked in a biochemical environment. There will be general guidance regarding the overall aims of the project with detailed discussion of the techniques and data as required.

Supervision given

The post-holder will be expected to provide general guidance and day-to-day supervision of undergraduate and postgraduate research students.

Contact**Key Working Relationships**

(internal)

Members of Prof. Angela Clerk's research unit
Bioresource Unit staff
Administration associated with School of Biological Sciences
Other academic staff
Undergraduate and postgraduate project students
Service departments

Key Working Relationships

(external)

Dr. Daniel Meijles (St. George's University of London, SGUL;
Co-Investigator)
Members of DN Meijles' research unit at SGUL
Imaging Resource Facility (SGUL) staff
Research collaborators
Suppliers

Terms and conditions

There are no specified hours of work, but you will be required to work such hours as are necessary to carry out the duties associated with the post. Some evening and weekend working may be necessary. Overtime is not payable.

This document outlines the duties required for the time being of the post to indicate the level of responsibility. It is not a comprehensive or exhaustive list and the line manager may vary duties from time to time which do not change the general character of the job or the level of responsibility entailed.

Date assessed: 16/07/19

PERSON SPECIFICATION

Job Title	School/Department
Postdoctoral Research Associate	School of Biological Sciences

Criteria	Essential	Desirable
Skills Required	<ul style="list-style-type: none"> • Practical ability and training to conduct research with mice and/or rats • Practical ability to perform molecular biology and protein biochemistry experiments 	<ul style="list-style-type: none"> • Ability to exercise initiative • Ability to prepare research data for publication • Experience in small animal cardiac ultrasound • Presentation skills
Attainment	<ul style="list-style-type: none"> • A degree (1st/2i) in biochemistry or allied discipline • A PhD in a relevant discipline • Home Office training (modules 1-4) 	<ul style="list-style-type: none"> • Holder of Home Office personal licence
Knowledge	<ul style="list-style-type: none"> • Understanding of the 3Rs relating to animal research • Appreciation of Health and Safety matters associated with practical laboratory work 	<ul style="list-style-type: none"> • Knowledge and understanding of cardiac function • Knowledge of protein kinase signalling
Relevant Experience	<ul style="list-style-type: none"> • Experience working with rodents • Molecular biology, protein biochemistry and/or cell biology training and expertise • Ability to use computer software for word processing, spreadsheets, graphical analysis of data 	<ul style="list-style-type: none"> • Experience in intracellular signalling • Experience in heart research
Disposition	<ul style="list-style-type: none"> • Ability to relate appropriately to others • Willingness to assist junior staff and students 	

Completed by: Professor Angela Clerk	Date: 16/07/19
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