

## Candidate Information

<b>Position:</b>	Research Assistant
<b>School/Department:</b>	Patrick G Johnston Centre for Cancer Research
<b>Reference:</b>	22/109712
<b>Closing Date:</b>	Monday 25 April 2022
<b>Salary:</b>	£28,756 per annum
<b>Duration:</b>	Available until 31 December 2023

### JOB PURPOSE:

To work as an active member of a cancer drug discovery programme led by Prof. Daniel Longley. The successful candidate will join a team focussed on the clinical positioning of novel-apoptosis inducing agents targeting the critical cell death regulator FLIP providing laboratory support for the programme.

### MAJOR DUTIES:

1. Implement and perform experiments in in vitro and in vivo cancer models.
2. Work with the team to conduct numerous and varied cellular assays to demonstrate on-target activity and mechanism of action of FLIP inhibitors and determine sensitive models of disease for the clinical positioning of the therapeutic agents.
3. Assist in the design, implementation and delivery of experiments using state of the art in vivo GEMM and transplant models.
4. Perform histological investigations from samples from in vivo experiments e.g. Processing, embedding and sectioning of histological samples from experimental samples generated in vivo (FFPE and/or Frozen).
5. Assist in the generation of primary immortalised and genetically modified cell/organoid models for use within the research group.
6. Work with senior members of the team to evaluate and analyse data generated and maintain accurate records of all work undertaken.
7. Write up results of own work and present regular progress reports on research to members of the research group and to external audiences, when appropriate, to disseminate research findings.
8. Carry out undergraduate and post-graduate supervision/demonstrating/teaching duties as deemed necessary and appropriate.
9. Read academic papers, journals and textbooks to keep the team abreast of new and novel developments.
10. Comply with Health and Safety procedures affecting self and others and ensure the work area is clean and safe at all times.
11. Assist in any way deemed appropriate to the overall success of the research objectives of the group and the cancer research Centre.
12. Carry out any other duties designated by a line manager and which fall within the general remit of the post.

### ESSENTIAL CRITERIA:

1. Degree or equivalent in subject relevant to research activity, i.e. Biochemistry, Biomedical Sciences.
2. At least 1 year relevant research experience.
3. Practical experience in a range of cellular and molecular biology techniques (such as tissue culture, Western blotting, flow cytometry, PCR).
4. Sufficient breadth or depth of specialist knowledge in the discipline and of research methods and techniques to work within the cancer drug discovery area.
5. Ability to teach laboratory techniques to new staff members and students.
6. Excellent record keeping skills to facilitate internal auditing and external reporting.
7. Ability to contribute to method improvement where required.
8. Ability to interact with research colleagues and support staff.
9. Good communication and interpersonal skills.
10. Ability to analyse and communicate effectively.
11. Demonstrable intellectual ability.

12. Ability to work independently and as part of a team.
13. Ability to plan and schedule responding to new pressures and adjusting project priorities.
14. Must be willing to work irregular hours when necessary for the progress of the research project.

**DESIRABLE CRITERIA:**

1. May be working towards a PhD or post graduate qualification.
2. Experience with immunohistochemical staining, imaging and analysis.
3. Active UK home office/department of health personal license.
4. Experience with murine tumour models particularly e.g. GEMM or xenograft models.
5. Knowledge of relevant health and safety issues and of COSHH regulations.
6. Willingness and enthusiasm to develop and maintain productive relationships with lab members and collaborators.