

Candidate Information

Position: School/Department: Reference: Closing Date: Salary: Anticipated Interview Date: Duration: Research Fellow Centre for Cancer Research and Cell Biology 19/108043 Wednesday 12 February 2020 £33,797 to £40,322 per annum Thrursday 27 February 2020 This is a fixed term position available until 28 February 2022

JOB PURPOSE:

The position will be based in the Cell Metabolism lab, led by Dr. Colin Adrain, in the Centre for Cancer Research and Cell Biology (CCRCB). The post holder will be an active member of a research team and will contribute to the lab's program on the role of membrane trafficking and proteostasis in the control of metabolism as well as ensuring that the overall research objectives of the School are met. The post will combine cellular and biochemical experiments with in vivo models.

MAJOR DUTIES:

- 1. Autonomously develop and plan an area of personal research and/or undertake research under supervision within a specific research project or as a member of a research team.
- 2. Perform cellular and in vivo experiments, focussed on the lab's overall theme of protein quality control and metabolism.
- 3. Carry out analyses, critical evaluations, and interpretations using methodologies and other techniques appropriate to area of research.
- 4. Present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings.
- 5. Prepare, often in consultation with the supervisor, material for publication in national and international journals and presentations at international conferences.
- 6. Assist grant holder in the preparation of funding proposals and applications to external bodies
- 7. Carry out routine administrative tasks associated with the research project/s to ensure that project/s are completed on time and within budget. These might include organisation of project meetings and documentation, financial control, risk assessment of research activities.
- 8. Help with the organisation and management of lab resources
- 9. Carry out supervision the work of junior lab members including undergraduate, masters and PhD students within the post holder's area of expertise and under the direct guidance of a member of academic staff.

Planning and Organising:

- 1. To ensure timely delivery of specific project goals.
- 2. To plan day to day activities within the framework of the lab's program.
- 3. Organise all lab resources such as plasmids, cells, antibodies and chemical reagents.

Resource Management Responsibilities:

- 1. To orchestrate the running of the lab's in vivo scientific program.
- 2. Liaise with lab members and vendors to ensure that resources are obtained, catalogued and used in an appropriate manner.
- 3. Training and supervision of junior lab members.
- 4. Management of lab budgets.

Internal and External Relationships:

- 1. Liaise on a regular basis with the PI and lab members.
- 2. Liaise with collaborating labs.

- 3. Liaise with technical support services.
- 4. Liaise with the QUB Core Technology unit.

ESSENTIAL CRITERIA:

- 1. Hold or be about to obtain a PhD in Molecular Biology, Biochemistry or Physiology.
- 2. Have undertaken FELASA or equivalent NI/UK Home Office-certified training in in vivo models.
- 3. Have 3 or more years' relevant research experience to include hands on experience in vivo mutant models.
- 4. Ability to devise and perform in vivo experiments independently, within the overall scope of the lab's program.
- 5. Have experience with in vivo biological models.
- 6. Experience in the isolation and culture of primary cells, specifically adipocytes, macrophages and fibroblasts.
- 7. Extensive experience in mammalian cell culture.
- 8. Have experience in molecular biology techniques, including CRISPR.
- 9. Have excellent problem solving skills.
- 10. Demonstrate excellent presentation and communication skills.
- 11. Demonstrate the capacity to work independently.
- 12. Demonstrate strong interpersonal skills.
- 13. Excellent record keeping skills.
- 14. Must have experience in experimental models relevant to metabolism

DESIRABLE CRITERIA:

- 1. Experience with in vivo models relevant to metabolism, inflammation.
- 2. Hands on experience in the generation of in vivo mutant models.
- 3. Have experience in histopathology.
- 4. Experience of supervision of postgraduate students.
- 5. Have a good working knowledge of histopathological approaches relevant for metabolic studies in vivo and in vitro.
- 6. Experience of autonomous project management.