



Candidate Information

Position:	Research Fellow
School/Department:	Centre for Cancer Research and Cell Biology
Reference:	19/107089
Closing Date:	Wednesday 16 January 2019
Salary:	£33,199 - £39,610 per annum (potential to progress to £43,266 per annum through sustained exceptional contribution)
Anticipated Interview Date:	Monday 28 January 2019
Duration:	Available until 31 January 2021

JOB PURPOSE:

Available from 1st February 2019 – 31st January 2021 in novel therapeutics for treating mesothelioma. The successful applicant will work on a Mick Knight Mesothelioma Research - British Lung Foundation sponsored project focused on characterising nucleotide metabolic vulnerabilities in mesothelioma. The Research Fellow will conduct in vitro and in vivo based lab experiments (growth inhibition and cell survival assays) to test novel drug combinations to treat mesothelioma, validation positive results and determine their mechanism of action by qRT-PCR, Western blot, flow cytometry, DNA damage assays, and immunofluorescence. The results obtained from in vitro studies will be validated in an in vivo model.

MAJOR DUTIES:

1. Design, develop and execute experiments related to the project under the supervision of Drs Robert Ladner and Melissa Wilson, in order to obtain reliable data, then evaluate and interpret the results using methodologies and techniques appropriate to the area of research.
2. Carry out analyses, critical evaluations, and interpretations using methodologies and other techniques appropriate to area of research.
3. Present regular progress reports on research to members of the research group as part of routine peer review.
4. Prepare, often in consultation with supervisor, material for publication in national and international journals and presentations at international conferences.
5. Write-up results in a timely manner and take a leadership role in writing research manuscripts.
6. Formulate, write and submit grants for fellowship awards, project and travel support.
7. To attend and present new experimental data at national and international meetings.
8. Assist grant holder in the preparation of funding proposals and applications to external bodies.
9. Initiate and maintain collaborative links with project partners.
10. Assist with the supervision of postgraduate students or summer students on mini-projects, which will help develop their own supervisory skills.
11. Read academic papers, journals and textbooks to keep up to date with developments in own specialism and related disciplines.
12. Any other reasonable duties within the general ambit of the post.
13. Coordinate own research findings in light of ongoing research within the group, to facilitate team work and overall progress of the group's research focus and productivity.

Planning and Organising:

1. Plan for specific aspects of research programmes. Timescales range from 1-6 months in advance and contribute to research group planning.
2. Plan for the use of research resources, laboratories and workshops where appropriate.
3. Plan own day-to day activity within framework of the agreed research programme.
4. Plan up to a year in advance to meet deadlines for journal publications and to prepare presentations and papers for conferences.
5. Coordinate and liaise with other members of the research group over work progress

Resource Management Responsibilities:

1. Ensure research resources are used in an effective and efficient manner.
2. Provide guidance as required to support staff and any students who may be assisting with research.
3. Take shared responsibility for the upkeep of lab equipment and replenishment of lab stocks and exercise due diligence when using equipment.
4. Support the development and training of support staff and students.

Internal and External Relationships:

1. Communicate openly with lab colleagues regarding the latest research findings/results.
2. Develop contacts with other labs within the research community at Queen's and look to identify potential cross-discipline collaborations.
3. Liaise on a regular basis with colleagues from internal/external collaborations.
4. Build internal contacts and participate in internal networks for the exchange of information and to form relationships for future collaboration.
5. Join external networks to share information and ideas.
6. Contribute to the School's outreach programme by establishing links with local community groups, industries etc.
7. Join national and internationally scientifically relevant societies.

ESSENTIAL CRITERIA:

1. Hold or about to hold a PhD in cancer biology, molecular biology or a related discipline
2. At least three years' relevant research experience with publication record commensurate with experience.
3. Experienced in a range of molecular and cellular biology techniques, such as qRT-PCR, Western blot, RNAi, immunoprecipitation, flow cytometry, apoptosis detection techniques and DNA damage immunofluorescent assays.
4. Experienced in in vitro culture models
5. Ability to contribute to broader management and administrative processes.
6. Contribute to the School's outreach programme by links with industry, patient advocacy groups etc
7. Sufficient breadth and depth of specialist knowledge in the discipline and of research methods and techniques to work within established research programmes.
8. Ability to communicate complex information clearly.
9. Ability to build contacts and participate in internal and external networks.
10. Demonstrable intellectual ability.
11. Ability to assess and organise resources.
12. Team worker, highly motivated, supportive of junior colleagues within the group.
13. Must be willing to work irregular hours when necessary for the progress of the research project.
14. Must be willing to work with in vivo models of cancer following the guidelines of the Animals (Scientific Procedures) Act 1986.

DESIRABLE CRITERIA:

1. 1st Class undergraduate degree in biochemistry or related disciplines.
2. Personal Licence Holder
3. Experience with in vivo cancer models
4. Experience in image analysis
5. Experience working with immunohistochemistry
6. Evidence of involvement in successful programmes and grant applications
7. Presentations at national/international meetings