ROLE PROFILE

Job Title: Research Associate/Fellow
School: School Pharmacy
Job family and level: Research and Teaching Level 4
Hours of Work: Full-time, 36.25 hours per week
Contract Status: Fixed-term contract for a period of 9 months
Location: School of Pharmacy, University Park
Reporting to: Dr James Dixon

Purpose of the Role:
To work in a multidisciplinary team to develop non-viral gene therapy strategies for treatment of Ataxia Telangiectasia. Specifically this will involve: (a) cell based assays of gene delivery; (b) animal based gene therapy to determine gene delivery to the cerebellum; (c) molecular analyses of the gene expression levels and duration; (d) engineering and manufacture of gene therapy vectors.

Main Duties and Responsibilities:

1. Conduct gene delivery experiments, assessing reporter and ATM expression
2. Translate this to animal and tissue models and process tissue slices ex vivo with expression analyses
3. Interaction and coordination of research activities with external project collaborators
   - Including clinical staff and collaborators in the USA
4. Preparation and presentation of progress reports and contributing to scientific publications
5. Assistance in the supervision of undergraduate and postgraduate students
6. Organisation and assistance in general laboratory duties such as ordering of reagents, equipment maintenance, and laboratory housekeeping
7. Assist in the supervision of undergraduate and/or postgraduate students projects.
8. Collaborate with academic colleagues on collaborative or joint research projects.
9. Active contribution to group meetings by e.g. problem solving, suggestions, etc.

Person Specification:

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<tr>
<th>Qualifications/Education</th>
<th>Essential</th>
<th>Desirable</th>
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<tr>
<td>A 1st or upper-second class honours degree</td>
<td>Degree in cell biology, tissue engineering, neuroscience or related</td>
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<tr>
<td>PhD awarded, submitted or close to submission in gene delivery, neurobiology or related disciplines</td>
<td>PhD covering areas such as neuroscience, general cell biology, microbiology, animal model research</td>
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Skills/Training

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<tr>
<td>Excellent skills in recombinant DNA technologies and cell culture</td>
<td>Experience of ex vivo tissue models</td>
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<td>Excellent problem solving abilities</td>
<td>Experience of animal models</td>
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<td>Good communication skills</td>
<td>Experience of gene delivery</td>
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- Excellent IT and organisational skills.
- Ability to build effective relationships as part of a team and collaborate with others, both internally and externally.
- Experience of ELISA assays, sectioning and immunostaining
- General Molecular and microbiology

**Experience**
- Write high quality reports and papers for publication
- Present work effectively to a variety of professional and academic audiences at meetings and conferences
- First author publications in high impact factor journals.
- Gene delivery technologies
- Personal licence and animal handling experience
- Stereotactic delivery systems

**Personal Attributes**
- Dynamic, proactive and dedicated approach.
- Flexible, independent working
- Integrity
- Ability to work to deadlines and prioritise tasks

Due to the requirements of the UK Border and Immigration Agency, applicants who are not UK or EEA nationals and whose immigration status entitles them to work without restriction in the UK will be considered on an equal basis with UK and EEA nationals. Other non-UK or non-EEA nationals whose employment will require permission to work subject to a resident labour market test may only be considered if there are no suitable UK or EEA national candidates for the post. Please visit [http://www.ukba.homeoffice.gov.uk/](http://www.ukba.homeoffice.gov.uk/) for more information.

Informal enquiries may be addressed to Dr James Dixon (email: james.dixon@nottingham.ac.uk), tel 0115 8468002. Please note that applications sent directly to these email addresses will not be accepted.

**Equality and Diversity**
The University of Nottingham has a range of policies to promote equality and diversity in the workplace which are fully supported and promoted by the School through its Equality and Diversity Committee. The School welcomes applications from all candidates and you can read more about our commitment to equality and diversity at [http://tiny.cc/UoNPharmEandD](http://tiny.cc/UoNPharmEandD).

We pride ourselves on the collegial and supportive culture created by our staff. We are dedicated to creating an environment which enables both our staff to thrive and achieve their potential. Our commitment to Equality and Diversity has been recognised in the awarding of an [Athena SWAN Bronze Award](http://tiny.cc/UoNPharmEandD).