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| Job title | Research Associate/Fellow | Job family and level | Research and Teaching Level 4 |
| School/ Department | School of Life Sciences | Location | Lab C14, Medical School |

Purpose of role

Myotonic Dystrophy is the most common form of muscular dystrophy in adults. We are trying to develop a treatment for this condition as part of a multidisciplinary team involving researchers in Life Sciences and Chemistry at the University of Nottingham and colleagues at the University of Oxford. The appointee will be expected to work as part of a multidisciplinary team funded by an MRC DPFS award. They will be responsible for testing compounds in cell culture and in vivo. They will also conduct CRISPR/Cas9 genome engineering and other studies for target validation and assessment of off-target effects using approaches such as RNAseq analysis.

| | Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role) | % time per year |
|---|---|------------------------|
| 1 | Compound screening, validation & data analysis <ul style="list-style-type: none">To plan and conduct assays to screen compounds in a timely manner. To generate and analyse data, solve problems, interpret and evaluate texts, plan and manage own research activity and time, meet research objectives and deadlines, and bring new insights to the research area. | 70% |
| 2 | Collaboration with other team members <ul style="list-style-type: none">To collaborate productively with other researchers involved in the project, incorporate their findings into primary research, and contribute data to aid them meeting research objectives and deadlines. | 10% |
| 3 | Research reporting <ul style="list-style-type: none">To prepare results and progress reports for the sponsor, and manuscripts for publication. Contribute to the dissemination of research outputs at scientific conferences. | 10% |
| 4 | Other duties <ul style="list-style-type: none">As agreed with the line manager, other duties commensurate with the nature of the post, e.g. contribute to the running of the lab, supervision of visitors and project students | 10% |

Person specification

| | Essential | Desirable |
|--|--|--|
| Skills | <ul style="list-style-type: none"> ▪ Demonstrable strong research skills in molecular cell biology, including high-content imaging, in vivo analysis, CRISPR/Cas target validation and RNAseq data analysis. ▪ Ability to analyse, evaluate and interpret data, and bring new insights. ▪ Ability to work quantitatively. ▪ Excellent organisational, time management and communication skills, including the ability to communicate complex information with clarity. | <ul style="list-style-type: none"> ▪ Existing skills in bioinformatics, including computer-based docking studies. ▪ Track record of research in molecular techniques. ▪ Peer-reviewed scientific publication(s) in relevant research area, preferably as lead author. |
| Knowledge and experience | <ul style="list-style-type: none"> ▪ Knowledge and experience of molecular biology. ▪ Experience in high-content imaging, RNAseq data analysis and CRISPR/Cas target validation. ▪ Experience of in vivo studies for compound screening. ▪ Evidence of data presentation at scientific meetings. ▪ Ability to work independently and also within a group. ▪ Demonstrable expertise in experimental design. | <ul style="list-style-type: none"> ▪ Experience of molecular docking studies. ▪ Experience of developing new approaches, models, techniques or methods in research area. ▪ Track record of writing papers as evidenced by publications or submitted manuscripts in refereed journals, preferably as lead author. |
| Qualifications, certification and training (relevant to role) | <ul style="list-style-type: none"> ▪ PhD or equivalent in a relevant area. Or near to completion of such a PhD. ▪ Personal animal license | |
| Statutory, legal or special requirements | <ul style="list-style-type: none"> ▪ Ability to maintain confidentiality and security of information as appropriate. ▪ Ability to ensure research and record keeping are carried out in accordance with best practice, scientific integrity, and in compliance with local policies and legal requirements. | <ul style="list-style-type: none"> ▪ Flexibility and ability to adapt the working schedule and techniques to varying hours at a short notice (e.g. willingness to work outside standard working hours when required). ▪ Ability to undertake occasional travel (national and international) to attend courses or relevant meetings to enable continuous professional development and remain up to date with current developments in the field. This also includes meetings with project collaborators. |



Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

- Valuing people** Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported.
- Taking ownership** Is clear on what needs to be done encouraging others to take ownership. Takes action when required, being mindful of important aspects such as Health & Safety, Equality, Diversity & Inclusion, and other considerations.
- Forward thinking** Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process.
- Professional pride** Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices.
- Always inclusive** Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area.

Key relationships with others



