<table>
<thead>
<tr>
<th>Job title</th>
<th>Postdoctoral Research Assistant in Cell Based High Throughput Screening</th>
</tr>
</thead>
<tbody>
<tr>
<td>Division</td>
<td>Medical Science Division</td>
</tr>
<tr>
<td>Department</td>
<td>Nuffield Department of Medicine</td>
</tr>
<tr>
<td>Location</td>
<td>Target Discovery Institute (TDI), NDM Research Building, Headington, Oxford, OX3 7FZ</td>
</tr>
<tr>
<td>Grade and salary</td>
<td>Grade 7: £32,817- 40,322 per annum</td>
</tr>
<tr>
<td></td>
<td><em>Whilst the role is a Grade 7: £32,817- 40,322 per annum position, we would be willing to consider candidates with potential but less experience who are seeking a development opportunity, for which an initial appointment would be at grade Grade 6: £29,176-34,804 with the responsibilities adjusted accordingly. This would be discussed with applicants at interview/appointment where appropriate.</em></td>
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<tr>
<td>Hours</td>
<td>Full time</td>
</tr>
<tr>
<td>Contract type</td>
<td>Fixed-term for 3 years in the first instance</td>
</tr>
<tr>
<td>Reporting to</td>
<td>Head of Cellular Screening Facility</td>
</tr>
<tr>
<td>Vacancy reference</td>
<td>143778</td>
</tr>
<tr>
<td>Research topic</td>
<td>Cellular High Throughput Screening - Glioblastoma Drug Screening for CRUK Brain Tumour Project</td>
</tr>
<tr>
<td>Principal investigator / supervisor</td>
<td>Daniel Ebner</td>
</tr>
<tr>
<td>Project team</td>
<td>TDI Cellular Screening Facility – Glioblastoma</td>
</tr>
<tr>
<td>Project web site</td>
<td><a href="https://www.tdi.ox.ac.uk/research/research/cellular-high-throughput-screening-hts">https://www.tdi.ox.ac.uk/research/research/cellular-high-throughput-screening-hts</a></td>
</tr>
<tr>
<td>Funding partner</td>
<td>Cancer Research UK</td>
</tr>
</tbody>
</table>
About the University of Oxford

Welcome to the University of Oxford. We aim to lead the world in research and education for the benefit of society both in the UK and globally. Oxford’s researchers engage with academic, commercial and cultural partners across the world to stimulate high-quality research and enable innovation through a broad range of social, policy and economic impacts.

We believe our strengths lie both in empowering individuals and teams to address fundamental questions of global significance, while providing all our staff with a welcoming and inclusive workplace that enables everyone to develop and do their best work.

Recognising that diversity is our strength, vital for innovation and creativity, we aspire to build a truly diverse community which values and respects every individual’s unique contribution.

While we have long traditions of scholarship, we are also forward-looking, creative and cutting-edge. Oxford is one of Europe's most entrepreneurial universities. Income from external research contracts in 2016/17 exceeded £564m and we rank first in the UK for university spin-outs, with more than 130 companies created to date. We are also recognised as leaders in support for social enterprise.

Join us and you will find a unique, democratic and international community, a great range of staff benefits and access to a vibrant array of cultural activities in the beautiful city of Oxford.

For more information, please visit www.ox.ac.uk/about/organisation.

Medical Sciences

The Medical Sciences Division is an internationally recognized centre of excellence for biomedical and clinical research and teaching. We are the largest academic division in the University of Oxford.

World-leading programmes, housed in state-of-the-art facilities, cover the full range of scientific endeavour from the molecule to the population. With our NHS partners we also foster the highest possible standards in patient care.

For more information please visit: www.medsci.ox.ac.uk

Nuffield Department of Clinical Medicine (NDM) …fostering your career in science

The Nuffield Department of Clinical Medicine (NDM) is one of the largest departments of the University of Oxford and is part of the Medical Sciences Division, with responsibility for a significant part of the teaching of clinical students within the Medical School.

NDM has significant financial turnover and complexity, resulting from its diverse research portfolio, its geographical spread and its close links with NHS funding and strategic teams involved in the development and delivery of increasingly integrated clinical research platforms. For more information please visit: http://www.ndm.ox.ac.uk/home
The Nuffield Department of Clinical Medicine has been presented with a Departmental Athena SWAN Silver award in recognition of the commitment made to promote gender equality through our organisational and cultural practices and our efforts to improve the working environment for both men and women. For more information please see our Departmental Athena SWAN pages: https://www.ndm.ox.ac.uk/working-for-ndm/aboutndmatheneswan/

The NDM Research Building and Target Discovery Institute (TDI)

Situated on the Old Road Campus this new building represents the latest phase in continued development of the Medical Research Campus. This £22M new building allows the development of the Target Discovery Institute and expansion of existing research groups of NDM with research synergies. The building is 5,300 sq m (GIA) laboratory and office space housing some 160 research and support staff.

The NDM Research Building constructed for the Nuffield Department of Medicine includes the Target Discovery Institute (TDI) with many academic partners. These include the Department of Cardiovascular Medicine and BHF Centre of Research Excellence (BHF Centre for Cardiovascular Target Discovery), Department of Radiation Oncology and Biology, Ludwig Cancer Institute, Kennedy Institute of Rheumatology, Structural Genomics Consortium and the Department of Chemistry.

The TDI consists of six research groups covering high-throughput biology (Ebner group), advanced biological mass spectrometry (Kessler group), medicinal chemistry (Brennan group), chemoproteomics (Huber group), imaging (Rittscher group) and pharmacogenomics (Nijman group). TDI research facilities include technology platform facilities for high-throughput cell-based screening, cell-based assay development programs, discovery proteomics laboratory, medicinal chemistry and chemical biology programmes. There is support space for the scientists including a 90-seat seminar room, advanced IT and AV infrastructure and additional meeting rooms and break out spaces.

About Phenotypic Screening

Phenotypic screening is the systematic identification of agents (such as small molecules, biological molecules or genetic mutations) that alter a phenotype. Phenotypic changes underlay most diseases, whether this is a cancer cell undergoing uncontrolled cell division, a motor neuron that fails to connect to muscle tissue, or the complex defects seen in the brain of a patient with schizophrenia. Phenotypic screening uses a range of techniques to measure changes in biological systems, the backbone of phenotypic screening relies on exploiting automated, high-content microscopy. High-content screening technologies are used to identify molecules with a particular biological effect in cell-based or tissue-based assays. High content phenotypic profiling allows a systems level approach to drug discovery that embraces the complexity of disease biology. Phenotypic screening approaches show promise in improving success rates of drug development.
Overview of the role

We are seeking a Research Assistant to join a dynamic, exciting, multi-faceted, multi-site (MIT, Edinburgh and Oxford) research project focused on discovering drugs to treat glioblastoma brain tumours. You will be responsible for independently leading a research project developing and producing high throughput cell-based screens targeting glioblastoma stem cells across a range physiologically-relevant conditions. You will be responsible for all steps of development, production and analysis of the screens with an emphasis on high content imaging within TDI Cellular High Throughput Screening facility. You will also be responsible for designing further validation experiments to help prioritize potential drug candidates. You will be a highly organized and productive member of a growing high throughput screening team responsible for developing and maintaining strict procedural protocols. You will have to be highly motivated, driven and collaborative scientist and play a vital role in a larger consortium of scientists working on this project from many angles and sites. We will prioritize scientists with a cancer research background but actively encourage scientists from all disease backgrounds with the necessary experience to apply.

Responsibilities/duties

Your main responsibility will be to develop and produce a set of cell based high throughput assays targeting glioblastoma stem cells in the TDI Cellular Screening Facility as part of a large CRUK Brain Tumour funded project. You will independently lead the research project to develop, transfer from bench-top to high throughput platforms, produce and analyse the high throughput screen and follow-up potential drug candidates with the TDI High Throughput Screening Facility.

Your duties will include:

- Manage own academic research and administrative activities. This involves small scale project management, to co-ordinate multiple aspects of work to meet deadlines
- Develop new scientific techniques
- Testing, reviewing and refining hypotheses
- Source compounds to extend the TDI’s existing small compound anti-cancer libraries
- Independently test and develop a bench-top assay for small compound high throughput screening of glioblastoma stem cells
- Run, program and maintain liquid handling robotic instruments
- Maintain tissue cultures for assay development and screening
- Produce and analyse cell based high throughput screen and report results
Collaborate in the preparation of scientific reports and journals, write up and report results to funders and produce manuscripts for publication in peer-reviewed scientific journals

Contribute ideas for new research projects and develop ideas for generating research income

Assist in writing proposals for future grant funding in the TDI Cellular Screening Facility

Assist in the transfer, validation and production of high throughput screens as part of a dynamic multi-pathology investigating research group

Day-to-day laboratory housekeeping – setting-up and clearing away equipment, re-ordering laboratory supplies and maintaining the laboratory in a clean and orderly fashion

Act as a source of information and advice to other team members

All employees will have to ensure that their work in the laboratory is conducted safely at all times and, in particular, that work is undertaken following the appropriate health and safety policies and procedures for the particular area, without compromise to their own safety or that of others who may be affected.

Hazard-specific / Safety-critical duties:
This job includes the following hazards or safety-critical activities which will require successful pre-employment health screening through our Occupational Health Service before the successful candidate will be allowed to start work:

- Working with ionising radiation
- Lone working
- Work with any substance which has any of the following pictograms on their MSDS:

Selection criteria

Essential

- A PhD in cell biology, chemistry or a related field (or close to completion)
- Excellent academic track record, or an equivalent combination of training and experience
Nuffield Department of Medicine

- Professional experience in an industrial or academic research laboratory with an emphasis on cellular high throughput screening
- Proven ability to independently lead a scientific research project from bench-top to completion and publication (either manuscript or thesis)
- Ability to work independently using their own initiative, and also as part of a team, supporting colleagues where necessary
- Considerable experience using high throughput liquid handling work stations (i.e. – PerkinElmer Janus and LabCyte Echo)
- Considerable experience using high content imagers to acquire and analyse high content imaging data (i.e. – PerkinElmer Opera Phenix and GE InCell6000)
- Background in cell biology, specifically, mammalian cell culture and transfections
- Highly organised, excellent attention to detail and the ability to work flexibly to manage your time and a varied workload under pressure to meet deadlines
- Ability to manage in an organised manner the day-to-day running of a busy research facility while balancing multiple project simultaneously
- Excellent interpersonal and communication skills
- Fast learner and willing to learn new techniques
- Familiarity with the existing literature and research in the field
- Good IT skills and experience with Microsoft Office programmes and web searches

Desirable

- Experience in additional high throughput readouts including qPCR, FACS and plate readers
- Experience with siRNA, shRNA, cDNA and CRISPR techniques
- Knowledge of biochemical compound screening
- Microscopy experience

How to apply

Before submitting an application, you may find it helpful to read the ‘Tips on applying for a job at the University of Oxford’ document, at https://www.ox.ac.uk/about/jobs/research/

If you would like to apply, click on the Apply Now button on the ‘Job Details’ page and follow the on-screen instructions to register as a new user or log-in if you have applied previously. Please provide details of two referees and indicate whether we can contact them now.

You will also be asked to upload a CV and a supporting statement. The supporting statement must explain how you meet each of the selection criteria for the post using examples of your skills and experience. This may include experience gained in employment, education, or during career breaks (such as time out to care for dependants).

Your application will be judged solely on the basis of how you demonstrate that you meet the selection criteria stated in the job description.
Please upload all documents as PDF files with your name and the document type in the filename.

All applications must be received by midday on the closing date stated in the online advertisement.

Information for priority candidates

A priority candidate is a University employee who is seeking redeployment because they have been advised that they are at risk of redundancy, or on grounds of ill-health/disability. Priority candidates are issued with a redeployment letter by their employing departments.

If you are a priority candidate, please ensure that you attach your redeployment letter to your application (or email it to the contact address on the advert if the application form used for the vacancy does not allow attachments)

Should you experience any difficulties using the online application system, please email recruitment.support@admin.ox.ac.uk. Further help and support is available from www.ox.ac.uk/about_the_university/jobs/support/. To return to the online application at any stage, please go to: www.recruit.ox.ac.uk.

Please note that you will receive an automated email from our e-recruitment system to confirm receipt of your application. Please check your spam/junk mail if you do not receive this email.
Important information for candidates

Pre-employment screening

Please note that the appointment of the successful candidate will be subject to standard pre-employment screening, as applicable to the post. This will include right-to-work, proof of identity and references. We advise all applicants to read the candidate notes on the University's pre-employment screening procedures, found at: www.ox.ac.uk/about/jobs/preemploymentscreening/.

Data Privacy

Please note that any personal data submitted to the University as part of the job application process will be processed in accordance with the GDPR and related UK data protection legislation. For further information, please see the University’s Privacy Notice for Job Applicants at: www.admin.ox.ac.uk/councilsec/compliance/gdpr/privacynotices/job/. The University's Policy on Data Protection is available at: www.admin.ox.ac.uk/councilsec/compliance/gdpr/universitypolicyondataprotection/.

The University’s policy on retirement

The University operates an Employer Justified Retirement Age (EJRA) for all academic posts and some academic-related posts. The University has adopted an EJRA of 30 September before the 69th birthday for all academic and academic-related staff in posts at grade 8 and above. The justification for this is explained at: www.admin.ox.ac.uk/personnel/end/retirement/acrelretire8+/. For existing employees, any employment beyond the retirement age is subject to approval through the procedures: www.admin.ox.ac.uk/personnel/end/retirement/acrelretire8+/. There is no normal or fixed age at which staff in posts at grades 1–7 have to retire. Staff at these grades may elect to retire in accordance with the rules of the applicable pension scheme, as may be amended from time to time.

Equality of Opportunity

Entry into employment with the University and progression within employment will be determined only by personal merit and the application of criteria which are related to the duties of each particular post and the relevant salary structure. In all cases, ability to perform the job will be the primary consideration. No applicant or member of staff shall be discriminated against because of age, disability, gender reassignment, marriage or civil partnership, pregnancy or maternity, race, religion or belief, sex, or sexual orientation.
Benefits of working at the University

Employee benefits

University employees enjoy 38 days’ paid holiday, generous pension schemes, travel discounts, and a variety of professional development opportunities. Our range of other employee benefits and discounts also includes free entry to the Botanic Gardens and University colleges, and discounts at University museums. See www.admin.ox.ac.uk/personnel/staffinfo/benefits.

University Club and sports facilities

Membership of the University Club is free for all University staff. The University Club offers social, sporting, and hospitality facilities. Staff can also use the University Sports Centre on Iffley Road at discounted rates, including a fitness centre, powerlifting room, and swimming pool. See www.club.ox.ac.uk and www.sport.ox.ac.uk/oxford-university-sports-facilities.

Information for staff new to Oxford

If you are relocating to Oxfordshire from overseas or elsewhere in the UK, the University’s Welcome Service website includes practical information about settling in the area, including advice on relocation, accommodation, and local schools. See www.welcome.ox.ac.uk. There is also a visa loan scheme to cover the costs of UK visa applications for staff and their dependents. See www.admin.ox.ac.uk/personnel/permits/reimburse&loanscheme/.

Family-friendly benefits

With one of the most generous family leave schemes in the Higher Education sector, and a range of flexible working options, Oxford aims to be a family-friendly employer. We also subscribe to My Family Care, a service that provides practical advice and support for employees who have caring responsibilities. The service offers a free telephone advice line, and the ability to book emergency back-up care for children, adult dependents and elderly relatives. See www.admin.ox.ac.uk/personnel/staffinfo/benefits/family/mfc/.

Childcare

The University has excellent childcare services, including five University nurseries as well as University-supported places at many other private nurseries. For full details, including how to apply and the costs, see www.admin.ox.ac.uk/childcare/.

Disabled staff

We are committed to supporting members of staff with disabilities or long-term health conditions. For further details, including information about how to make contact, in confidence, with the University’s Staff Disability Advisor, see www.admin.ox.ac.uk/eop/disab/staff.

Staff networks

The University has a number of staff networks including the Oxford Research Staff Society, BME staff network, LGBT+ staff network and a disabled staff network. You can find more information at www.admin.ox.ac.uk/eop/inpractice/networks/.
The University of Oxford Newcomers’ Club is an organisation run by volunteers that aims to assist the partners of new staff settle into Oxford, and provides them with an opportunity to meet people and make connections in the local area. See www.newcomers.ox.ac.uk.