<table>
<thead>
<tr>
<th>Job title</th>
<th>Postdoctoral Research Scientist – Inflammation and Cancer</th>
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<tbody>
<tr>
<td>Division</td>
<td>Medical Sciences</td>
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<tr>
<td>Department</td>
<td>Nuffield Department of Medicine, Ludwig Institute for Cancer Research</td>
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<tr>
<td>Location</td>
<td>Old Road Campus Research Building, Headington, Oxford, OX3 7DQ</td>
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<tr>
<td>Grade and salary</td>
<td>Grade 7: £32,817 - £40,322 per annum</td>
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<tr>
<td>Hours</td>
<td>Full time</td>
</tr>
<tr>
<td>Contract type</td>
<td>Fixed-term for 2 years in the first instance</td>
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<tr>
<td>Reporting to</td>
<td>Professor Mads Gyrd-Hansen</td>
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<tr>
<td>Vacancy reference</td>
<td>145366</td>
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<tr>
<td>Additional information</td>
<td><em>This position is funded by</em> Wellcome Trust Fellowship</td>
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</table>

**The role**

We are seeking an exceptional and motivated postdoctoral research scientist with experience in experimental murine models to undertake a project that focusses on the role of the ubiquitin machinery in inflammation and cancer in vivo. You will employ syngeneic mouse tumour models that will studied using a wide range of experimental methodologies, including phenotypic analyses, isolation and analysis of primary and cancer cells. In addition, your work will involve biochemical, molecular and cell biology techniques, including but not limited to multiplex flow cytometry, CYTOF, fluorescence imaging, next-generation sequencing and biochemical analysis of signalling pathways.

Professor Gyrd-Hansen’s research group at Ludwig Cancer Research, University of Oxford, is focused on understanding how the ubiquitin system controls innate immune processes that protect against infectious agents but, when inappropriately activated, also contribute to chronic inflammation and cancer. The long-term goal of the work is to identify molecular processes that can be targeted pharmacologically to treat inflammation-driven pathologies, including cancer.

More information about the research led by professor Gyrd-Hansen can be found from here: http://www.ludwig.ox.ac.uk/mads-gyrd-hansen-group-page
Training will be available in all aspects of the work, especially in protocols relating to the study of ubiquitin-related processes. You will have an adaptable approach to work and a willingness to tackle a variety of tasks. Support and troubleshooting guidance will be available. However, after induction, an ability to work without supervision, combining a structured and organised approach with enthusiasm will be important. You will work with other postdoctoral researchers and graduate students undertaking related projects.

**Responsibilities**

- To participate in the Ludwig Cancer Research and Wellcome Trust funded research programme led by Prof Gyrd-Hansen to study the role of ubiquitin in inflammation and cancer.
- To design and perform original research using in vivo models and mammalian cell culture systems.
- Manage own academic research and administrative activities. This involves small scale project management, to co-ordinate multiple aspects of work to meet deadlines.
- To supervise and train junior staff in cell/molecular biology/biochemistry.
- To operate laboratory equipment used for all aspects of cell/molecular biology/biochemistry.
- To interpret results and present them to senior members of the group and Prof Gyrd-Hansen.
- To be responsible for overseeing the daily housekeeping of the laboratory area and performing any other comparable duties as may be required to ensure the efficient running of the laboratory.
- To be responsible with others for the biological safety of the laboratory.
- To communicate with Prof Gyrd-Hansen and other members of the group as required, ensuring that they are kept fully up to date with progress and any difficulties in the research project.
- To participate in and contribute directly to scientific discussions with other members of the research group and collaborators both on the project and contributing ideas for future research projects.
- To maintain confidentiality regarding research data when interacting with non-collaborating researchers.
- To assist in dissemination of findings of the research group by authorship of manuscripts, presentation of results at meetings, and contribution to the group website.
- To attend appropriate scientific seminars, training opportunities and meetings in the Institute and University.
- Once trained the post holder's performance will be continually monitored to ensure that the required standard of accuracy and efficiency is maintained.

**Pre-employment screening**

All offers of employment are made subject to standard pre-employment screening, as applicable to the post.

If you are offered the post, you will be asked to provide proof of your right-to-work, your identity, and we will contact the referees you have nominated. You will also be asked to complete a health declaration (so that you can tell us about any health conditions or disabilities so that we can discuss appropriate adjustments with you), and a declaration of any unspent criminal convictions.

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/](http://www.ox.ac.uk/about/jobs/preemploymentscreening/).
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:

- Lone Working
- Work in hot or cold environments
- Working with Ionising Radiation
- Working with category 3b or 4 lasers (laser safety class)
- Working with infectious pathogens (hazard group 2/3) - Hazard Group 3 pathogens
- Working with blood, human products and human tissues
- Work with allergens, Eg laboratory animals, pollen, dust, fish or insects etc.
- Work with any substance which has any of the following pictograms on their MSDS:

Selection criteria

Essential selection criteria

- A PhD degree in immunology, infection biology or related discipline
- Previous experience in cancer biology
- Experience and skills in experimental murine models
- Strong publication record for career stage, such as first-author publications internationally recognised journals
- Good attention to detail
- The ability to work independently and as part of a team
- Willingness to carry out parts of the project at another EU research institution

Desirable selection criteria

- Experience in studying immune signalling pathways
- A valid personal license to undertake experimental mouse work (e.g. UK home office licence or equivalent).

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](http://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](http://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](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: [www.ndm.ox.ac.uk/working-for-ndm/aboutndmatheneswan/](http://www.ndm.ox.ac.uk/working-for-ndm/aboutndmatheneswan/).

**The Ludwig Institute for Cancer Research (LICR)**

Research within the Ludwig Cancer Research, Oxford Branch is focused on studying signalling pathways that influence cancer initiation and progression, with a focus on infection, inflammation and cancer epigenetics. We aim to advance cancer prevention, early diagnosis and effective treatment.

The research groups at Ludwig Cancer Research, University of Oxford, have strong overlapping interests yet maintain diversity, enabling the effective sharing of ideas and technologies. By working together the scientists maximise their research potential.

The Oxford Branch currently employs approximately 120 staff at the Old Road Campus Research Building in Headington, Oxford, and has plans for further expansion over the coming 2-3 years.

For more information please visit: [http://www.ludwig.ox.ac.uk/](http://www.ludwig.ox.ac.uk/)
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

http://www.ox.ac.uk/about_the_university/jobs/research/
http://www.ox.ac.uk/about_the_university/jobs/professionalandmanagement/
http://www.ox.ac.uk/about_the_university/jobs/supportandtechnical/

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 department(s).

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

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

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.