

## Nuffield Department of Medicine

<b>Job title</b>	Postdoctoral Researcher - HIV Immunology
<b>Division</b>	Medical Sciences Division
<b>Department</b>	Nuffield Department of Medicine
<b>Location</b>	NDM Research Building, Old Road Campus, Headington, Oxford, OX3 7FZ
<b>Grade and salary</b>	Grade 7: £32,236 - £39,609 per annum
<b>Hours</b>	Full time
<b>Contract type</b>	Fixed term for 36 months
<b>Reporting to</b>	Professor Sarah Rowland-Jones
<b>Vacancy reference</b>	139784

<b>Research topic</b>	Structure-based vaccine design: using structural information from HIV-2 to design better HIV-1 Immunogens
<b>Principal Investigator / supervisor</b>	Professor Sarah Rowland-Jones
<b>Project website</b>	<a href="https://www.ndm.ox.ac.uk/principal-investigators/researcher/sarah-rowland-jones">https://www.ndm.ox.ac.uk/principal-investigators/researcher/sarah-rowland-jones</a>
<b>Funding partner</b>	The funds supporting this research project are provided by UK Research & Innovation (UKRI) and the Japan Society for the Promotion of Science (JSPS)

## 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





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## Nuffield Department of Medicine

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>

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/>



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## Nuffield Department of Medicine

### The NDM Research Building and 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 such as 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.

TDI research facilities include high-throughput cell-based screening facility, cell-based assay development program, proteomics laboratory, medicinal chemistry and chemical biology programs and containment level three laboratories. 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.

### Job Description

#### Overview of the role

We are seeking a highly-motivated post-doctoral scientist for a new post recently funded under a joint call from UKRI and the Japanese Society for the Promotion of Science (JSPS). This project focuses on using structural and functional information from HIV-2 as a novel approach to HIV-1 vaccine design. Reporting to Professor Sarah Rowland-Jones, the post-holder will be a member of a research group in the Nuffield department of Medicine in Oxford, with responsibility for carrying out research as part of this joint project with collaborators in the University of Hokkaido in Japan. Our group will study cellular immune responses to HIV-2 in the UK HIV-2 cohort, with a particular focus on cytotoxic T lymphocyte (CTL) responses to HIV-2 proteins, whilst our Japanese colleagues will focus on structural analysis of HIV-2 proteins and T-cell receptors of HIV-2-specific T-cells.

The post holder will undertake experiments and will write up their results to complete the project. S/he will present results in laboratory meetings to both the Oxford group and our Japanese collaborators, as well as at national/international conferences, and prepare data for publication. In addition, the post holder will provide guidance to less experienced members of the research group, including PhD, visiting and undergraduate project students.

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## Nuffield Department of Medicine

### Responsibilities/duties

- Manage own academic research and administrative activities, guided by the PI. This involves small scale project management, to co-ordinate multiple aspects of work to meet deadlines
- Make detailed experimental observations and provide critical input on experimental designs and approaches
- Adapt existing and develop new scientific techniques and experimental protocols for the study of HIV-specific T-cell lines and clones, and identify suitable alternatives if technical problems arise
- Gather, analyse, and present scientific data from a variety of sources, and provide regular updates to the PI and research collaborators
- Contribute to lab meetings, journal clubs etc, and maintain a regularly updated knowledge of the relevant research literature
- Contribute ideas for new research projects, develop ideas for generating research income, and present detailed research proposals to senior researchers
- Collaborate in the preparation of scientific reports and journal articles, and present papers and posters at local, national and international meetings
- Act as a source of information and advice to other members of the group on scientific protocols and experimental techniques
- Represent the research group at external meetings/seminars, either with other members of the group or alone
- Carry out collaborative projects with colleagues in partner institutions, and research groups
- Monitor and maintain a safe working environment in accordance with Health and Safety procedures

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## Nuffield Department of Medicine

### **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:

- Night working (11pm-6am)
- Lone Working
- Working with infectious pathogens (hazard group 2/3) – Hazard group 3 pathogens
- Working with blood, human products and human tissues

### **Selection criteria**

#### **Essential**

- Hold or be close to completion of a relevant PhD/DPhil,
- Have relevant experience in cellular immunology of viral infection, ideally in HIV infection
- Possess sufficient specialist knowledge in viral immunology to work within this newly-established research programme: this will require the ability to conduct functional and phenotypic studies of virus-specific cytotoxic T lymphocyte (CTL) lines and clones using samples collected from HIV-2-infected subjects by our clinical collaborators in Queen Mary, University of London (including experience in tissue culture, FACS analysis, functional T-cell assays (Elispot, cytokine staining), nucleic acid extraction and sequence analysis)
- Excellent track record in academic achievement, including publication record, as well as to presentations in national/international conferences
- Ability to manage own academic research and associated activities
- Ability to work well within a team environment
- Ability to contribute ideas for new research projects and research income generation
- Excellent communication skills, including the ability to write for publication, present research proposals and results, and represent the research group at meetings
- Ability to work effectively with research collaborators, particularly our partners in this project in the University of Hokkaido and our clinical collaborators in Queen Mary, University of London

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## Nuffield Department of Medicine

### Desirable

- Experience in generating and maintaining antigen-specific Cytotoxic T lymphocyte clones
- Experience of independently managing a discrete area of a research project
- Experience of actively collaborating with researchers in an overseas research institution
- Experience of supervising others

### 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.

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)*



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### Nuffield Department of Medicine

Should you experience any difficulties using the online application system, please email [recruitment.support@admin.ox.ac.uk](mailto:recruitment.support@admin.ox.ac.uk). Further help and support is available from [www.ox.ac.uk/about the university/jobs/support/](http://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](http://www.recruit.ox.ac.uk).

Please note that you will be notified of the progress of your application by automatic emails from our e-recruitment system. **Please check your spam/junk mail** regularly to ensure that you receive all emails.



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## Nuffield Department of Medicine

### 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/](http://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/](http://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/](http://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. From 1 October 2017, the University has adopted an EJRA of 30 September before the 69<sup>th</sup> 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+/](http://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+/](http://www.admin.ox.ac.uk/personnel/end/retirement/acrelretire8+/).

From 1 October 2017, 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.





## Nuffield Department of Medicine

### Benefits of working at the University

#### University Club and sports facilities

Membership of the University Club is free for all University staff. The University Club provides 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](http://www.club.ox.ac.uk) and [www.sport.ox.ac.uk/oxford-university-sports-facilities](http://www.sport.ox.ac.uk/oxford-university-sports-facilities).

#### Information for international staff

The University offers support and advice to international staff, including 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/](http://www.admin.ox.ac.uk/personnel/permits/reimburse&loanscheme/).

#### 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](http://www.welcome.ox.ac.uk).

#### 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 to settle into Oxford and to provide them with an opportunity to meet people in the area. See [www.newcomers.ox.ac.uk](http://www.newcomers.ox.ac.uk).

#### Childcare

The University has excellent childcare services with 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](http://www.admin.ox.ac.uk/childcare).

#### Family-friendly benefits

The University subscribes to My Family Care service through which staff are eligible to register for emergency back-up childcare and adultcare services, a 'speak to an expert' advice service and a wide range of guides and webinars through a website called the Work+Family space.

See: [www.admin.ox.ac.uk/personnel/staffinfo/benefits/family/mfc/](http://www.admin.ox.ac.uk/personnel/staffinfo/benefits/family/mfc/).

#### 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](http://www.admin.ox.ac.uk/eop/disab/staff).



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## Nuffield Department of Medicine

### 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/](http://www.admin.ox.ac.uk/eop/inpractice/networks/).

### Additional benefits

Staff can enjoy a range of other benefits and discounts, including free entry to the Botanic Gardens and University colleges, and discounts at University museums. See [www.admin.ox.ac.uk/personnel/staffinfo/benefits](http://www.admin.ox.ac.uk/personnel/staffinfo/benefits).