



**The Institute of Cancer Research  
(University of London)**

**Postdoctoral Training Fellow**

Division of Cancer Biology  
Chelsea, London

The Institute of Cancer Research, London, is one of the world's most influential cancer research institutes, with an outstanding record of achievement dating back more than 100 years. The institute provided the first convincing evidence that DNA damage is the basic cause of cancer, laying the foundation for the now universally accepted idea that cancer is a genetic disease. Today, The Institute of Cancer Research (ICR) leads the world at studying cancer-related genes and discovering new targeted drugs for personalised cancer treatment. Under the leadership of our Chief Executive, Professor Paul Workman FMedSci, the ICR is ranked as the UK's leading academic research centre. Together with our partner The Royal Marsden Hospital, we are rated in the top four cancer centres globally. The ICR is committed to attracting, developing and retaining the best minds in the world to join us in our mission – to make the discoveries that defeat cancer.

A position for a postdoctoral researcher is available immediately in the laboratory of Dr. Wojciech Niedzwiedz, Division of Cancer Biology at The Institute of Cancer Research in London. We are looking for highly motivated and creative individuals with a strong interest in molecular biology and mechanisms of DNA repair and replication. We currently employ state-of-the art cell biology and biochemical analysis to elucidate how cells detect and repair damaged DNA.

The ICR and the Division of Cancer Biology has excellent facilities including state-of-the art microscopy, flow cytometry, cryo-electron microscopy, protein production and bioinformatics facilities.

Applicants should possess a PhD (or equivalent) in biochemistry or molecular biology with experience in DNA repair and/or replication. Expertise in at least one of the following techniques: fluorescent microscopy, DNA combing/fibre, protein production, biochemistry is essential for this posts.

Appointment will be on Fixed Term Contract for 3 years in the first instance, with a starting salary in the range of £30,715 to £35,109 p.a. inclusive.

Informal enquiries are welcome and can be made to Dr. Wojciech Niedzwiedz (wojciech.niedzwiedz@icr.ac.uk). Please note, this address is for enquiries only and you should not send your application to this email address.

**CV and covering letter must be submitted online at <http://www.icr.ac.uk/jobsearch>**

**Job Ref. No. 576**

**Closing Date: 10/12/2018**

**The Institute of Cancer Research  
Division of Structural Biology**

**JOB DESCRIPTION**

<b>JOB TITLE:</b>	Postdoctoral Training Fellow
<b>DIVISION:</b>	Cancer Biology
<b>GRADE:</b>	PDTF
<b>RESPONSIBLE TO:</b>	Dr. Wojciech Niedzwiedz

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**SUMMARY OF THE POST**

The three post-doctoral training fellows will join a dynamic team investigating the mechanism of DNA damage detection and repair using a multidisciplinary approach. The aim of this project is to elucidate the molecular mechanisms of cellular responses to replicative stress and to exploit this knowledge to develop novel anti-cancer treatment strategies.

**SPECIFIC DUTIES AND RESPONSIBILITIES**

- Molecular characterisation of loss-of function knockout and knock-in cells.
- Large-scale protein purifications using bacterial and baculovirus expression systems.
- Biochemical analysis of protein-protein and protein-nucleic acid interactions.
- Coordination with other members of the team.
- To take an interest in the relevant scientific literature.
- Be familiar with ICR's approach towards risk management including its policies and procedures, which require all staff to play an active part in identifying and managing risk.
- All staff must ensure that they familiarise themselves with and adhere to any ICR policies that are relevant to their work and that all personal and sensitive personal data is treated with the utmost confidentiality and in line with the General Data Protection Regulations.

**Any other duties which may be required which are consistent with the nature and grade of the post.**

**This job description is a reflection of the present position and is subject to review and alteration in detail and emphasis in the light of future changes or development.**

## PERSON SPECIFICATION

Criteria	Essential or Desirable?
<b>Education &amp; Knowledge</b>	
PhD in Molecular Biology/Biochemistry/Cell Biology or related subject *	E
BSc (or equivalent) in Biology/Biochemistry or related subject	D
<b>Experience</b>	
Demonstrable experience in characterisation of DNA repair/replication factors	E
Demonstrable experience in cell biology and molecular biology techniques	E
Hands – on experience in recombinant protein expression and purification	D
Previous experience in biochemical characterization of protein complexes	D
Familiarity with DNA fibre/combing assay	D
Good publication record	E
Experience in fluorescent microscopy	D
Familiarity with protein production in insect cells (MultiBac)	D
Previous experience in animal models	D
<b>Skills</b>	
Proficiency in basic molecular biology techniques	E
Protein biochemical and biophysical characterization	E
Competent in laboratory techniques, trouble-shooting etc.	E
Ability to integrate different experimental techniques	E
Good observation skills and ability to keep appropriate records	E
Computer literate with ability to use structural biology software	E
Good organisational skills	E
<b>General</b>	
Good communication skills	E
Highly self-motivated and enthusiastic	E
Willingness to learn new techniques/approaches	E

Excellent interpersonal skills with the ability to work flexibly and to establish effective working relationships	E
Ability to work effectively and efficiently, both independently and as part of a team	E

*\* as a minimum requirement candidates must have submitted their thesis by the start date of their employment and awarded their PhD within the six month probationary period.*

*ICR has a workforce agreement stating that the maximum length of employment for Post-doctoral Training Fellows should be no more than 7 years within ICR and no more than 10 years total postdoctoral employment (at ICR and elsewhere). Consequently, you should be aware that the length of contract offered will be limited by this agreement as well as the availability of funding.*