



Research Centre
Post title

National Institute for Cellular Biotechnology
Postdoctoral Researcher
in Cancer Biology

Level on Framework
Post duration

Level 1
Full-time, 11-month contract

Dublin City University

Dublin City University (DCU) is a leading innovative European University. It is proud to be one of the world's leading Young Universities and is among the world's top 2% globally. DCU is known as Ireland's University of Impact, with a mission to 'transform lives and societies' and focuses on addressing global challenges in collaboration with key national and international partners and stakeholders.

DCU has over 20,000 students in five faculties spread across three academic campuses in the Glasnevin-Drumcondra area of North Dublin. Thanks to its innovative approach to teaching and learning, the University offers a 'transformative student experience' that helps to develop highly sought-after graduates. DCU is currently No. 1 in Ireland for Graduate Employment Rate, and for graduate income (CSO).

DCU is a research-intensive University and is home to a number of SFI-funded Research Centres. The University participates in a range of European and international research partnerships. DCU is also the leading Irish university in the area of technology transfer as reflected by licensing of intellectual property.

As a 'People First' institution, DCU is committed to Equality, Diversity and Inclusion - a University that helps staff and students to thrive. The University is a leader in terms of its work to increase access to education, and is placed in the world's Top 10 for reducing inequalities in the Times Higher Education Impact Rankings.

Background & Role

A postdoctoral position is available in the National Institute for Cellular Biotechnology at Dublin City University to undertake research on the following project: "Rational combinations with DXd-based antibody-drug conjugates (ADCs)" under the supervision of Dr Neil Conlon. This postdoctoral position is funded by a collaborative industry partnership.

The primary goal of this project is to determine optimal drug combinations utilising DXd-based ADCs in pre-clinical models of ovarian, endometrial, and gastric cancers. ADCs have already

revolutionised the treatment of many cancer types; however, this may be further enhanced through exploitation of synergies with the mechanism of the ADC payload. To do this, the Postdoctoral Researcher will assess drug combination efficacies in 2D and 3D cell models, determine cell death mechanisms, antibody internalisation, and bystander effects by live-cell kinetic fluorescent imaging, and elucidate the mechanisms of action by reverse phase protein array analysis. By the end of this project, it is hoped that a highly promising, novel drug combination will be identified for clinical evaluation in these cancer types.

Principal Duties and Responsibilities

The Postdoctoral Researcher will be required to fulfil the following:

- Carry out all experimental goals as specified in the project.
- Document all experimental data, analysis, and protocols.
- Report/present regularly at group meetings.
- Attend relevant meetings, seminars, and conferences.
- Collaborate and present to industry partners.
- Contribute to manuscript preparations relevant to the project.
- Complete a detailed report upon completion of the project.
- Undertake standard laboratory management tasks.
- Monitor and report on project budget expenditure.
- Support and interact with group members.

Minimum Criteria

Applicants should have a PhD in Cancer Biology, Cell Biology, or a related Life Science field.

In addition, it is desirable that the candidate:

- Is passionate about cancer research.
- Has evidence of strong technical skills in cancer cell culture, biochemical analysis, and fluorescent microscopy.
- Demonstrate experience in data analysis, communication and organisational skills.
- Has experience in supervision and mentoring of undergraduate and postgraduate students.
- Has familiarity with drug development and translational oncology.
- Has experience of participation in successful multi-disciplinary research programmes.

Essential Training

The postholder will be required to undertake the following essential compliance training: Orientation, Health & Safety and Data Protection (GDPR), and Biosafety. Other training may need to be undertaken when required.