



Research Assistant

**Identification of novel therapeutic regimens to overcome resistance in hard to treat cancers.
National Institute for Cellular Biotechnology
Fixed-term contract up to 24 months**

Background & Role

The NICB (National Institute for Cellular Biotechnology) is located on the Dublin City University (DCU) campus in North Dublin. It is a leading multidisciplinary centre of translational research in Fundamental and Applied Cellular Biotechnology, Molecular Cell Biology, Ocular Diseases and Biological Chemistry. It includes a multidisciplinary team of Cell and Molecular Biologists, Biotechnologists, Chemists and Informatics specialists. The NICB prioritises translational research involving collaborations with industry and with clinicians, and is committed to educating people from all backgrounds in the area of Biomedical Science.

The objective of the post is to provide technical support and contribute to ongoing research carried out by the Dr Alex Eustace in the National Institute for Cellular Biotechnology in Dublin City University. The project will be funded by Cancer Clinical Research trust. It will be co-supervised by Dr Alex Eustace, DCU and Prof. John Crown, St Vincent's University Hospital/DCU.

Principle Duties and Responsibilities

- Cell characterisation studies, which include acid phosphatase assays for cell viability, invasion and migration assays, and combination assays to determine synergistic effects between tyrosine kinase inhibitors and chemotherapy drugs.
- Protein, DNA and RNA extractions from patient and cell culture samples. Western Blotting analysis of protein samples.
- Creating 3D cellular models from established cell lines for in vitro testing
- General lab duties as required including preparation of cells/samples for other group members, preparing cell stocks for the NICB culture collection, processing blood samples. Co-ordinating inventory checks of liquid nitrogen & -80C freezers.
- Training students/interns in cell culture, bioassay & immunohistochemistry techniques as required.
- Complying with statutory legislation and Department rules and requirements in furtherance of your own and general staff welfare and safety
- Undergoing programmes of training and development as may be required. This can include training in techniques such as the Incucyte and Guava Flow cytometer.
- Representing the best interests of the Department/College at all times
- Any other duties as required

Minimum Criteria:

The successful candidate will hold a degree and/or an MSc in the area of cancer biology or a related discipline.

The successful candidate should be able to demonstrate:

- Strong Project Management Skills with a track record of project implementation.
- Experience in the management of information as a resource, with a familiarity with methods of data collection and the application of appropriate research methodologies.
- Strong organisational and administrative skills with the ability to focus on and produce results and prioritise objectives.
- Ability to make decisions and meet deadlines.
- Demonstrates an effective communication style appropriate to audience and situation.
- Computer skills including MS office suite & GraphPad Prism
- On rare occasions there may be a need to work irregular working hours to ensure that project deadlines are met.

Mandatory experience:

- Cell culture: maintenance and quality control
- Experience in establishing 3D cell models

Desirable experience:

- Western blotting
- Familiarity and experience of working with Incucyte Live imager and Guava Flow Cytometer

Mandatory Training

Post holders will be required to undertake the following mandatory training: Orientation, GDPR, and Compliance. Other training may need to be undertaken when required