



- Research Centres** The School of Biotechnology (SoBT), the National Institute for Cellular Biotechnology (NICB) and the National Centre for Sensor Research (NCSR) at Dublin City University.
- Position title** Post-doctoral research scientist in cellular and molecular biology
- Candidate** We are looking for a PhD level research scientist with experience in cellular and molecular biology (particularly cell culture, RNA and protein isolation and analysis) to identify and characterise novel therapeutic targets on skin-homing T-cells. *This project is in partnership with and funded by a large European pharmaceutical company* and the successful candidate will be responsible for maintaining research collaborations with our industry partner.
- Project Summary** T-cells play a crucial role in the adaptive immune response to pathogens, microorganisms and malignant cells by migrating into secondary lymphoid organs in search of antigen-presenting cells (APCs). Overactive or uncontrolled T-cells can cause debilitating damage to skin tissue in many dermatological conditions, resulting in chronic inflammation, pain and disability. There are no clinically-approved treatments for blocking T-cell migration to the skin. Targeting T-cell migration to the skin could therefore be potentially exploited for the treatment of inflammatory skin disorders such as atopic dermatitis and psoriasis if suitable therapeutic targets and biomarkers are identified on T-cells.
- The aim of this project is to identify and validate novel therapeutic targets on skin-homing T-cells that could be targeted for the treatment of inflammatory skin disorders such as psoriasis and atopic dermatitis.
- Requirements:** Applicants must have a solid technical expertise in cellular and molecular biology or closely related disciplines and have a track record of successful research and development projects. A background in mammalian cell culture, flow cytometry, RNA isolation, protein analysis, bioinformatics and confocal microscopy is desirable. Candidates should have an aptitude for problem solving and troubleshooting. A self-starting attitude and the ability to interact with a highly interdisciplinary team, including our tightly linked industrial partners, are essential.
- **Minimum Criteria**
    - A PhD in molecular and cellular biology with experience in most or all of the following areas – cell culture, flow cytometry, RNA isolation, protein analysis, bioinformatics and microscopy.
  - **Advantageous.** One or more of the following will be advantageous to applicants:
    - Experience in immunology, particularly isolation of T-cells from blood and experience in downstream assays including cellular activation, cytokine analysis and migration.

- Experience in the maintaining documentation such as standard operating procedures (SOPs), maintenance schedules, safety policies and procedures.
  - Track record of publishing in peer-reviewed international journals and presenting research findings to peers and at conferences.
  - Experience in supporting project management, reporting and interactions with stakeholders.
- **Please note that this project will involve working with blood samples and therefore vaccination against Hepatitis B virus is required.**

**Duties:** The post-doctoral researcher will be required to carry out the following duties:

- Carry out all experimental objectives and ensure deliverables/milestones are met as specified in the project award.
- Document all experimental data, analyses and protocols.
- Attend meetings and prepare reports for the Principal Investigators and industry partners.
- Liaise with clinical colleagues in collecting and processing patient samples.
- Support the Principal Investigators in the supervision of undergraduate and postgraduate research projects.

**Research Career Framework:** As part of this role the researcher can participate in the DCU Research Career Framework <http://dcu.ie/hr/ResearchersFramework/index.shtml>. This framework is designed to provide significant professional development opportunities to researchers and offer the best opportunities in terms of a wider career path.

**Location:** This position will be based in the laboratory facilities of the National Centre for Sensor Research and the School of Biotechnology on the modern Dublin City University Glasnevin campus.

**Salary:** €37,223-€40,661 p.a dependent on experience

**Contract:** 11 months Full Time with the potential to extend for at least one month.

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**Applications:** CV including two referees & cover letter quoting reference number #RF1250 in subject line, by email to [Michael.Freeley@dcu.ie](mailto:Michael.Freeley@dcu.ie)

**Closing date:** Monday 12<sup>th</sup> August 2019

