



**School:** School of Biotechnology  
**Post Title:** Postdoctoral Researcher  
**Post Duration:** Fixed Term 3-Year Contract

**Background & Role:** A postdoctoral position is available within the School of Biotechnology at Dublin City University (DCU) to undertake research on the following project: "COMP-Ang1: Vascular Normalization and Neuroprotection for Diabetic Retinopathy (DR)".

Specifically, the project will employ viral gene transduction techniques and vascular cell models to enhance delivery of a therapeutic protein into the retinal microvasculature as a means of treating DR. This project is funded under the SFI/US-Ireland R&D Partnership Scheme, in collaboration with Queens' University Belfast and the University of Utah. Within DCU, the project leader is Dr. Phil Cummins, principal investigator with the Endothelium Biology Group.

#### **Duties & Responsibilities**

The Postdoctoral Researcher will be required to fulfill the following:

- Carry out all experimental objectives as specified in the project award.
- Document all experimental data, analyses and protocols.
- Report/present regularly at group meetings.
- Attend relevant meetings, seminars and conferences.
- Contribute to manuscript preparation 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.
- Undertake other tasks as defined by the PI, Dr. Phil Cummins.

#### **Qualifications & Experience**

The successful candidate will hold a PhD in the area of molecular biology, cell biology or a closely related discipline, with a minimum of 2 years postdoctoral experience.

Mandatory experience:

- Vascular cell culture.
- In vitro static and flow models of blood-brain and blood-retinal barrier physiology.
- Plasmid production and transfection.
- Adeno-associated virus (AAV) production and capsid manipulation.
- Bioanalytical skills (RT-qPCR, flow cytometry, western blotting, ELISA).

Desirable experience:

- Proliferation/angiogenesis assays.
- In vivo models (rodent).
- Confocal microscopy.

#### **Informal Enquiries:**

Informal enquiries may be addressed to Dr. Phil Cummins, School of Biotechnology, Dublin City University, Glasnevin, Dublin 9, Ireland. Email: [phil.cummins@dcu.ie](mailto:phil.cummins@dcu.ie) Telephone: +353-1-7005584. Please do not send applications to this email address, instead apply as described below.

**Salary scale:** €40,003 - €41,181

Appointment will be commensurate with qualifications and experience

**Closing date:** 14<sup>th</sup> March 2017

**Application Procedure**

Application forms are available from the DCU Current Vacancies (open Competitions) website at <http://www.dcu.ie/vacancies/current.shtml> and also from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0) 1 7005149.

Please clearly state the role that you are applying for in your application and email subject line: Job Ref 501 Postdoctoral Researcher-School of Biotechnology.

Applications should be submitted by email to [hr.applications@dcu.ie](mailto:hr.applications@dcu.ie) or by Fax: +353 (0)1 7005500 or by post to the Human Resources Department, Dublin City University, Dublin 9. Human Resources Department, Dublin City University, Dublin 9. Tel: +353 1 700 5149; Fax: +353 1 700 5500 Email: Insert [hr.applications@dcu.ie](mailto:hr.applications@dcu.ie)

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