

PhD Studentship - University College Dublin, Ireland

High content screening microscopy to dissect membrane traffic pathways

A PhD studentship is available immediately in the cell biology / screening laboratory of Prof. Jeremy Simpson at University College Dublin, Ireland. The successful candidate will develop and apply automated high content screening microscopy combined with systematic gene knockdown approaches to identify and understand the molecules associated with various intracellular trafficking pathways in cultured mammalian cells. Of particular focus will be the identification of molecular machinery associated with trafficking pathways between the Golgi complex and endoplasmic reticulum. Research into these pathways is expected to be important in determining novel routes for drug delivery.

The laboratory is fully equipped with appropriate cell screening, imaging and molecular biology facilities, and is located in the School of Biology and Environmental Science, UCD Science Centre, at the heart of the campus. Applicants should have a first or upper second class BSc (or equivalent) degree in a relevant life sciences discipline, such as biological sciences, cell biology, molecular biology, or biochemistry.

Practical experience in mammalian cell culture, DNA/RNA transfection, fluorescence microscopy, cell-based assays, or laboratory automation would be advantageous. Candidates should be able to demonstrate a commitment to research, and should possess excellent communication and organization skills.

Funding is available for up to 4 years and includes a stipend of €18,000 per annum, plus university registration fees. Please note that this position is only available to EU applicants. Requests for further information about this position can be made to Prof. Jeremy Simpson (Tel: +353 1 716 2345 / Email: jeremy.simpson@ucd.ie).