



BIOMEDICAL DIAGNOSTICS INSTITUTE

www.bdi.ie

Based at Dublin City University (DCU), the Biomedical Diagnostics Institute (www.bdi.ie) was established in 2005 through a Science Foundation Ireland Centre for Science, Engineering & Technology (CSET) award, in addition to significant industry funding. The Biomedical Diagnostics Institute (BDI) carries out cutting-edge research focused on the development of next-generation biomedical diagnostic devices measuring indicators of disease. Our world-class research team currently includes seven industry partners (Analog Devices, Àmic, Enfer Technologies, Hospira, Becton Dickinson, Inverness Medical Innovations, Biosurfit) and four clinical and academic partners: the Royal College of Surgeons Ireland (RCSI) in Dublin, the National Centre for Biomedical Engineering Science (NCBES) at NUI, Galway, the Tyndall National Institute (TNI) in Cork and the host institution at Dublin City University (DCU).

Post-graduate research studentship (MSc by research): SPECIFIC RECOGNITION OF DNA G-QUADRUPLEX STRUCTURE

Summary: An opportunity exists for an exceptional student to work at BDI on a research project that deals with the synthesis of novel molecules for specific recognition of DNA G-quadruplex structure and rapid analysis of the binding phenomenon based on quenching of labeled telomeric DNA on Au surface.

The research will involve a synthesis of novel telomerase inhibitors based on cross-linked G-quartet and development of an assessment tool to study the specific interactions of such structures with human telomeric DNA.

Requirements: The prospective student should have (or expect to achieve this year) a First Class or Upper Second Class degree in chemistry, physical-chemistry or biochemistry. The candidate should also be demonstrating significant future research potential.

Location: This position will involve work at Dublin City University and includes a collaboration at University of Puerto Rico, USA.

Stipend: €17,000 pa + payment of DCU fees for two years

Duration: 2 years full-time

Position to commence: 2nd August, 2011

Enquiries: Dr. Vladimir Gubala, BDI, Tel: +353-1-700-6337 E-mail: vladimir.gubala@dcu.ie

Applications: CV including two referees & cover letter, by email to vladimir.gubala@dcu.ie

Closing date: Open until position is filled

