



## Capital Awards 2004

Grant Holder	Project Title
Dr Dmitri Papkovsky Department of Biochemistry University College Cork	Two-Photon Excitation Micro-Fluorometer System
Dr Stephen Beatty Department of Ophthalmology South Eastern Health Board	Apo e4 allele status, and its relationship with macular pigment optical density and lipoprotein profile, in subjects with and without a family history of age-related macular degeneration
Dr Ziarih Hawi Department of Genetics Trinity College Dublin	An ABI Prism 7900HT Sequence Detection System to Perform Fine Mapping of Putative Susceptibility Loci for Neuropsychiatric Conditions
Professor John Waddington Clinical Pharmacology Royal College of Surgeons in Ireland	Resource for Psychiatric Genomics in Ireland: accessing disruption to early brain development and quantifying its relationship to functional impairment through morphometrics
Dr John P. Lowry Department of Pharmacology University College Dublin	Microdialysis analyser systems for monitoring neurochemical dynamics in the intact brain: facilitating the application of biosensors for real-time clinical monitoring.
Professor Gerald Tomkin Department of Diabetes and Endocrinology Adelaide and Meath Hospital (incorporating the National Children's Hospital)	Lipoproteins and diabetes
Professor Dolores J Cahill Centre for Human Proteomics Royal College of Surgeons in Ireland	Low volume liquid handling robot for high throughput proteomics applications
Professor David Croke Department of Biochemistry Royal College of Surgeons in Ireland	Transgenic models in neuropsychiatric disease
Dr Patrick C Brennan School of Diagnostic Imaging University College Dublin	Essential dosimetry for the optimisation of diagnostic radiographic procedures.
Dr Veronica Campbell Department of Physiology Trinity College Dublin	Confocal laser scanning microscope
Dr Charles Spillane Department of Biochemistry University College Cork	Biomedical Genomics: Need for high-throughput genetic analysis

<b>Grant Holder</b>	<b>Project Title</b>
Dr David Lloyd Department of Biochemistry Trinity College Dublin	Non-radioactive screening for early phase discovery research
Dr Gerard Boran Clinical Chemistry and Endocrinology Departments Adelaide and Meath Hospital (incorporating the National Children's Hospital)	A Repository to support Shared Care for Diabetes
Dr Sandra Austin Conway Institute University College Dublin	Intravital Microscopy for in vivo Tissue and Vascular Analysis
Dr Derek Morris Department of Psychiatry Trinity College Dublin	Neuropsychiatric Genetics Group Information Infrastructure
Professor Brian Harvey Molecular Medicine Royal College of Surgeons in Ireland	Anti-secretory Effects of Steroid Hormones in Human Lung, Intestine and Eye
Professor Jochen Prehn Department of Physiology and Medical Physics Royal College of Surgeons in Ireland	A user-friendly, FRET-compatible bench-top flow cytometer for the study of protein delivery, protein dynamcis, protein interaction, protease acivation and cell death activation in human disease and its response to treatment: A multiple user infrastructure
Dr Fidelma Dunne Department of Medicine University College Hospital, Galway	Use of a diabetes electronic management system ( DIAMOND) to support a shared care diabetes programme.
Dr Rosemary O'Connor Department of Biochemistry University College Cork	Laser Scanning Cytometry for use in Cancer and Neurobiology Research
Professor Lothar Steidler Department of Microbiology and Medicine University College Cork	Strategies for highly contained live therapeutic GM bacteria
Dr Frank Barry Regenerative Medicine Institute National University of Ireland, Galway	Laser Microdissection System for Recovery of Engrafted Stem Cells and Specific Cells from Tissue Biopsies
Professor Cliona O'Farrelly Education & Research Centre, St Vincent's University Hospital	Organ-specific molecular and cellular pathogenic mechanisms
Dr Dermot Walls Faculty of Science and Health Dublin City University	Real-time PCR assays for viral, cellular and bacterial gene expression
Dr Amir Khan Department of Biochemistry Trinity College Dublin	High Throughput Protein X-ray Crystallography and Molecular Design

<b>Grant Holder</b>	<b>Project Title</b>
Dr Gerard Cagney Department of Molecular Medicine University College Dublin	Clinical Proteomics Analysis Platform (CPAP)
Professor Marina Lynch Department of Physiology Trinity College Dublin	Application of FACS analysis to the study of inflammatory changes in brain
Dr Howard Johnson Department of Public Health Eastern Regional Health Authority	Health Atlas - Rapid Inquiry System
Professor Kay Ohlendieck Department of Biology National University of Ireland, Maynooth	Establishment of a difference gel electrophoresis-based proteomics suite in NUI Maynooth
Mr Declan Devane School of Nursing and Midwifery Studies Trinity College Dublin	Evaluation of the effectiveness of midwifery-led services in the North Eastern Health Board: A multi-center, randomised controlled trial
Dr David Henshall Department of Physiology Royal College of Surgeons in Ireland	Mouse Monitoring Clinic for Translational Research
Dr Michael Gill Department of Psychiatry Trinity College Dublin	Automated DNA purification and extraction
Dr Amanda McCann Conway Institute of Biomolecular and Biomedical Research University College Dublin	Automated Slide Scanning and Image Analysis System: Application to High Throughput Biomarker Validation Studies.
Dr Alan Ryder National Centre for Biomedical Engineering Science National University of Ireland, Galway	Fluorescence Lifetime Imaging Microscope with Fluorescence Correlation Spectroscopy (FLIM-FCS)
Dr William Watson Department of Surgery University College Dublin	Flow Cytometry: Applications for Cellular Function and Differentiation
Dr Leonie Young Department of Surgery University College Dublin	Breast Cancer Research Portal
Dr Cormac Murphy Department of Industrial Microbiology University College Dublin	Biosynthesis of the chlorinated antibiotic ACPA
Dr Heinz Peter Nasheuer Department of Biochemistry National University of Ireland, Galway	NUIG/phosphorimager

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<b>Grant Holder</b>	<b>Project Title</b>
Dr Jiang Huai Wang Department of Surgery University College Cork	Investigation of Molecular and Cellular Mechanisms Involved in BLP Tolerance-afforded Protection against Septic Shock
Dr David Cotter Department of Psychiatry Royal College of Surgeons in Ireland	Clinical Neuroscience Proteomics using DIGE
Dr Kieran McDermott Department of Anatomy-Neuroscience University College Cork	Confocal Imaging System
Professor Martin Clynes National Institute for Cellular Biotechnology Dublin City University	Establishing Ireland's Pancreatic Islet Isolation Program for Research and Future Transplantation
Professor Dermot Kelleher Department of Clinical Medicine Trinity College Dublin	Chip-based bio-assays

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