Every era of health and health care has had its challenges and the schools within the Faculty of Health Sciences at Trinity College Dublin have been at the forefront of Ireland’s responses to those challenges. The current era is dominated by budgets and cutbacks, so our schools strive to develop creative responses to health challenges, often by finding new ways to work smarter and deliver the best quality of care despite fewer resources. Solutions lie in looking beyond our individual disciplines, and in building interdisciplinary relationships that will make the difference.

As a faculty we are about the highest quality of care being offered to each individual; about the pursuit of research to find new solutions to complex health concerns; about translating the results of research to improve bedside care, manage risk factors, prevent disease, ease convalescence and maintain quality of life; and about always seeing the individual as more than disease and symptoms. Healthcare faces major problems and a need for genuine innovation, and research is the crucial component of this innovation.

As you review the descriptions of our health-related research and think about our purposes today, we as a Faculty have the tools and the research strengths in so many health areas to work together to improve life for everyone. Your active participation in forging and enhancing collaborative research across disciplines and schools is an important next step in this strategy.

Professor Mary McCarron
Dean of Health Sciences
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School of Dental Science
www.tcd.ie/dental/research/

Director of Research – Dr Gary Moran
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The School of Dental Science’s research strengths are in relation to clinical dentistry (including ageing and special needs dentistry), microbiology and dental materials. Researchers in the School and Hospital collaborate across College (AMBER, TILDA) and are internationally recognised for their work on areas such as waterline decontamination, MRSA and fungal biology. Please visit the School’s research page for full details:
www.tcd.ie/dental/research
Professional Background
Since joining the Dublin Dental University Hospital in 1988, Professor Coleman has made significant and sustained contributions to scientific knowledge in several fields of Microbiology including oral Candida biology, MRSA research and applied and translational research on biofilm control in large water distribution networks in hospitals and other healthcare facilities. Professor Coleman was awarded a personal chair in Oral and Applied Microbiology by Trinity College Dublin in 2006 in recognition of his achievements in scholarship and research. He was awarded an Sc.D. from Trinity College in 2011 and was elected as a Member of the Royal Irish Academy (M.R.I.A.) in 2015.

Research Interests
- Molecular epidemiology, population biology and evolution of MRSA
- Whole genome sequencing approaches to study microbial evolution
- Molecular epidemiology of Candida albicans and C. dubliniensis
- Microbial biofilm formation and control in hospital water networks and medical devices
- Development of automated water treatment systems using electrochemically activated solutions
- Development of automated dental unit waterline and suction system decontamination systems

Keywords
MRSA, biofilm control, automated decontamination, electrochemically activated solutions, whole genome sequencing, microbial population analysis, water network decontamination, medical device decontamination, antimicrobial resistance elements in staphylococci

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Professional Background
Hal Duncan is an Assistant Professor and Consultant in Endodontics, a subject which encompasses preservation of health of the dental pulp as well as treatment of the diseased pulp by regenerative techniques and root canal treatment. His principle research interests address clinical questions relating to pulp health perseveration and repair, with previous projects investigating material choice and regenerative response and current studies analysing the role of epigenetics in pulpal mineralization responses.

Hal has several ongoing research collaborations in this area with Universities in Zurich, Birmingham and New York.

Research Interests
- Understanding the molecular mediators orchestrating dental pulp damage, mineralization, repair and regeneration
- Investigating the role of epigenetic modifiers (histone deacetylase inhibitors) and matrix metalloproteinase inhibitors in promoting reparative mechanisms in dental pulp cells.
- Analysis the epigenetic control of dental pulp stem cell renewal or differentiation
- Translational development of targeted clinical strategies, including dental restorative biomaterials, for use in vital pulp treatment.
- Clinical research of management strategies for deep carious lesions and molecular pulpal diagnostics.

Keywords
dental pulp; epigenetic; mineralization; endodontics; histone deacetylase inhibitors; matrix metalloproteinase; regeneration
Dr Garry Fleming
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Professional Background
Garry Fleming graduated with a BSc in Materials Science from the University of Limerick (1993) and obtained his PhD from the School of Dentistry at the University of Birmingham (1998) where he was appointed Lecturer in Dental Biomaterials in 1999 and Senior Lecturer in 2004. In 2004, Dr Fleming was awarded the Young Investigator Distinguished Scientist Award for the International Association of Dental Research (IADR) for promoting research amongst dental undergraduate and postgraduate students in Birmingham. In 2005 Dr Fleming joined the staff of the School of Dental Science in Trinity College Dublin where he now conducts research on the adhesive strengthening mechanisms of dental ceramics, potential dental amalgam replacement materials including glass-ionomer restoratives and novel resin-based composite materials and biocompatibility studies using an in-house developed three-dimensional oral mucosal model.

Research interests
• Improving the longevity of all-ceramic restorations
• Strengthening of glass-ionomer restoratives
• Biocompatibility assessment of dental materials

Dr Claire Healy
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Professional Background
Claire Healy is Consultant/Senior Lecturer in Oral Medicine, Dublin Dental University Hospital, Trinity College Dublin. Dr Healy graduated in dentistry and medicine from Trinity College Dublin; Obtained a PhD from the University of London in 1995 following a period as clinical research fellow at the Royal London Hospital; Completed higher training in Oral Medicine at the Dublin Dental University Hospital; Obtained exit fellowship in Oral Medicine from the Royal College of Surgeons in England in 2006 and FFD (Oral Medicine) at the Royal College of Surgeons in Ireland in 2006; Appointed Consultant/Senior Lecturer in Oral Medicine, Dublin Dental School and Hospital, Trinity College Dublin in 2007; Currently Head of Division of Oral and Maxillofacial Surgery, Oral Medicine and Oral Pathology.

Research Interests
• Head and neck cancer. Member of Pan-European study involving clinical data and biological tissue collection from cases and controls co-ordinated by IARC investigating genetically determined differences in alcohol and tobacco metabolism and DNA repair mechanisms.
• Oral microbiome in patients with oral leukoplakia. Investigating changes in the oral microbiota in patients with oral leukoplakias with malignant potential by 16s sequencing
• Orofacial granulomatosis and oral manifestations of Crohn’s disease

Keywords
Head and neck cancer, oral cancer, human papilloma virus, leukoplakia, dysplasia, microbiome, orofacial granulomatosis, Crohn’s disease, oral mucosa
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Professional Background
Brenda McManus is a Senior Postdoctoral Research Fellow working in Applied and Translational Microbiology at the Division of Oral Biosciences, School of Dental Science, TCD. She has a B.A. (Mod) Microbiology (TCD) and a Ph.D. in Molecular Microbiology (TCD). She has published 10 articles in peer-reviewed journals.

Research Interests
Her research interests are in population structure analysis, epidemiology, mechanisms of antimicrobial/antifungal drug resistance, molecular characterisation of staphylococcal cassette chromosome mec (SCCmec), Candida, staphylococci, periodontitis, peri-implantitis, Candida leukoplakia and autoimmune polyendocrinopathy ectodermal dystrophy (APECED). She is currently active in the following research:

- Comparative molecular characterisation of coagulase-negative staphylococcal species (CoNS) from infections in humans and companion animals.
- Characterisation of non-typeable SCCmec elements among CoNS by whole genome sequence analysis.
- Determination of the molecular mechanisms of high-level oxacillin resistance in MRSA harbouring the novel mecC gene.
- Characterisation of Candida and staphylococcal populations recovered from subgingival sites of healthy and diseased teeth and dental implants.

Keywords
Translational Microbiology; Candida; Staphylococci; Population Structure & Epidemiology; Whole-Genome Sequencing; Antimicrobial resistance; Periodontitis; Peri-implantitis; Candida leukoplakia

Dr Gary Moran
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Professional Background
Dr Gary Moran is Associate Professor in Microbiology in the Division of Oral Biosciences, School of Dental Science. He graduated from the Dept. of Microbiology, TCD with his undergraduate degree in Microbiology (1994) and PhD (1998). His post-doctoral studies included time on an EMBO fellowship in Lausanne, Switzerland and time as a visiting research fellow at the Robert Koch Institute in Berlin.

His research involves the use of functional genomic techniques to understand the virulence mechanisms of oral microorganisms including the fungus Candida albicans and the periodontal pathogen Porphyromonas gingivalis. He has also recently begun investigations of the oral microbiome to determine its role in maintaining oral health and its potential as an indicator of systemic disease.

Research Interests
- Characterisation of the novel telomeric TLO genes in Candida albicans
- Microbial transcriptomics and ChIP
- Characterisation of virulence genes of the periodontal pathogen P. gingivalis
- Analysis of the Oral Microbiome by 16s sequence analysis

Keywords
Microbiology, virulence, genomics, microbiome.
Professor Brian O’Connell
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Professional Background
Professor Brian O’Connell received his undergraduate degree in dentistry at the National University of Ireland, Cork. Brian completed his postgraduate training in Prosthodontics and Biochemistry at the Eastman Institute of Oral Health, University of Rochester, New York. He continued his work as a Principal Investigator at the National Institutes of Health in Bethesda, Maryland. Professor Brian O’Connell is currently Professor of Restorative Dentistry and Director of Postgraduate Prosthodontics at Trinity College, Dublin. Brian places great clinical emphasis on multidisciplinary care. He has published and lectured widely on Prosthodontics and Implantology.

Research Interests
• Oral Health and Quality of Life in the Ageing Population
• Oral assessment of TILDA participants
• Multidisciplinary research involving dentists, psychologists, public health, economists.
• Developed a sensor-containing mouth guard that records and transmits bruxism activity.
• Established a campus company SelfSense Technologies to market (www.selfsense.ie)

Dr Jeff O’Sullivan
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Professional Background
Dr. Jeff O’Sullivan is a member of the School of Dental Science within Trinity College and is actively involved in driving the integration of basic research with the clinical needs within the field of dental science. He has a B.Sc.(Hons) in Biochemistry and Molecular Biology from DIT and a PhD in Biochemistry from TCD. He was appointed as an Assistant Professor in Biological Sciences in the Dublin Dental University Hospital in 2008 with responsibility for educating future dental surgeons in biochemistry, cell biology and immunology. To date he has published > 20 peer reviewed papers, book chapters and has graduated > 10 PhD/D. Ch. Dent/M.Sc. Students.

Research Interests
His research is centered on oral cancer and the role of cellular intermediates in the progression of oral carcinoma in particular the role of reactive oxygen species. He is an expert in amine derived ROS and the downstream effects of these metabolites and has identified several target molecules involved in the regulation of these species. Dr. O’Sullivan has previously elucidated cellular adhesion mechanisms, which utilize reactive oxygen species through amine oxidation and can enable cellular and therefore tumor growth.

He has also established working collaborations with industry and other universities with the aims of developing state of the art early detection techniques for oral cancer patients along with the identification of novel biomarkers aiding disease diagnosis.

Keywords
Cancer, OSCC, biomarkers, amine oxidases, raman spectroscopy, reactive oxygen species
Dr Ioannis Polyzois
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Professional Background
Dr Ioannis Polyzois received his undergraduate degree (DMD) from Semmelweis University in 1995 and he was awarded his MMedSci in Oral Surgery by the University of Sheffield in 1996. He completed a three-year specialist training in Periodontology (MDentCh) at Trinity College Dublin in 2002 and subsequently worked there for two years as a clinical supervisor. In 2005 he became a Lecturer in Periodontology at Trinity College with responsibility for research and graduate didactic and clinical teaching. He completed his PhD thesis (Dental Education) in 2010. He is currently working in the Dublin Dental University Hospital as a Consultant in Periodontology. In November 2012 he became director of the Postgraduate program in Periodontology. He has published numerous research articles and book chapters.

Research Interests
• Periodontal disease (PD) and peri-implantitis (PI)
• Develop new techniques for diagnosing PI diseases.
• Evaluate the efficacy of preventive and therapeutic interventions.
• Bone formation around a novel implant designs.
• Investigate an oral systemic relationship in chronic PD patients.
• Periodontal treatment & systemic inflammatory markers (CRP, ILs).

Keywords
Periodontitis, dental implantology, Peri-implantitis

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Professional Background
Anna Shore is an Ussher Assistant Professor in Applied and Translational Microbiology in the Division of Oral Biosciences, School of Dental Science and Department of Clinical Microbiology, School of Medicine. She has a B.Sc. in Science (UCD) and a Ph.D. in Molecular Microbiology (TCD). Her research involves the development of applied and translational research on nosocomial pathogens, particularly MRSA, with the aims of reducing their spread and enhancing our understanding of their origin and evolution.

• Advocate of the “One Health Initiative” in the prevention and control of the spread of pathogens among humans, animals and the environment.
• Works closely with national and international academic, clinical, veterinary and industrial collaborators.
• 31 publications in peer-reviewed journals.

Research Interests
• High-throughput DNA microarray and whole-genome sequencing of healthcare-, community- and animal-staphylococci.
• Resistance mechanisms and genotypes of staphylococci with emerging resistance phenotypes.
• Environmental contamination and the transmission of nosocomial pathogens.

Keywords
Translational Microbiology; One Health; Staphylococci; MRSA; Bacterial Evolution & Epidemiology; Whole-Genome Sequencing; Antimicrobial resistance.
**Professor Derek Sullivan**  
Professor  
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**Professional Background**  
Derek Sullivan is a Professor in Microbiology. He graduated with a PhD from the University of Newcastle in 1990. Following a short postdoctoral fellowship there he joined the School of Dental Science in 1991 and was appointed to a lectureship position in 1996. Derek has published over 100 publications, primarily in the field of fungal pathogenesis and epidemiology. He was the Associate Dean of Research in Trinity College from 2012-2014 and is currently the Director of Undergraduate teaching & Learning in the School of Dental Science.

**Research Interests**  
Identified Candida dubliniensis in 1995, a novel fungal species associated with oral disease.

**Keywords**  
Pathogenesis, Candida, epidemiology

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**Dr Mary Toner**  
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**Professional Background**  
Mary Toner is a Consultant Histopathologist with a speciality interest in head and neck pathology, in both Dublin Dental University Hospital and St. James Hospital.

**Research Interests**  
Early squamous carcinoma of the oral cavity  
Giant cell granuloma of the jaws  
Morphology, p16 and HPV in oropharyngeal carcinomas

**Current Research Projects**  
- We are examining very early oral carcinomas discovered in the setting of a dysplasia clinic to identify adverse prognostic features normally associated with larger tumours.  
- We are examining aggressive and non-aggressive central giant cell granulomas to compare histologic features and expression of various markers and wish to include examination of telomerase expression for therapeutic possibilities.

**Keywords**  
Head and neck cancer; giant cell granuloma of jaws
The School of Nursing and Midwifery has systematically built research capacity and as a result has the highest proportion and number of PhD qualified staff amongst all schools of nursing and midwifery in Ireland. The School conducts research that is of high social relevance and is guided by college, national and international research, along with nursing, midwifery and healthcare strategies. The school’s research includes a high degree of collaboration with our health service partners and the main research themes include: aging, chronic illness, maternity care, mental health and healthcare innovation. Please visit the School’s research page for full details: nursing-midwifery.tcd.ie/research
Professor Cecily Begley
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**Professional Background**
Cecily Begley is Professor of Nursing and Midwifery. She has an MSc by Research and a PhD in Midwifery Education, from the University of Dublin, and is a Fellow of Trinity College Dublin and the Faculty of Nursing and Midwifery, RCSI. She has over 120 peer-reviewed publications, has supervised 24 PhD students to completion and mentored 6 post-doctoral researchers.

**Research Interests**
Promoting normality in childbirth; third stage of labour; perineal care; systematic reviews; randomised trials.

**Current Research Projects**
1. PI/Co-ordinator for OptiBIRTH: a cluster randomised trial in 15 sites in Germany, Italy and Ireland, testing an intervention to increase vaginal birth after previous caesarean section. This European consortium of 11 partners from 8 countries was funded by FP7 (€3 million).
2. Joint PI (with Mike Clarke and Deirdre Daly) of the MAMMI study (Maternal health And Maternal Morbidity in Ireland). A longitudinal study following 2,600 women through pregnancy and for the first year post-partum, identifying prevalence and risk factors for all morbidities. Funded to a total of €1 m by the Health Research Board (3 grants) and other bodies.

**Keywords**
Normalising childbirth; third stage of labour; perineal care; episiotomy; decreasing caesarean section rates; systematic reviews; randomised trials.

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**Professional Background**
Dr. Anne Marie Brady is Director of Centre for Practice & Healthcare Innovation and a RGN with 30 years clinical, education, and research experience with extensive international experience in health care systems in Ireland, United Kingdom and the USA. Her research work is focused on quality improvement, understanding, developing & integrating health systems, and workforce development.

**Current Research Projects**
- Leading a multidisciplinary research team in a multisite evaluation of integration of dementia care across three hospitals and 2 community sites
- Co-applicant to HO20 PHC 25 recently awarded 4.8 million. Project to be coordinated through (CPHI) seeks to integrate a wide variety of new and existing technologies to improve integrated care for patients with multi morbidity.
- TCD Lead on inter institutional collaboration with UCD, UL, UCG, UCC commissioned by the Nursing & Midwifery Board of Ireland to inform development of a Competency Framework & enabling framework for Scope of Nursing Practice

**Keywords**
Health care management; healthcare quality; service improvement; patient safety; integrated care; health workforce planning; human factors; health service delivery; health systems
Ms Eilish Burke  
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Professional Background
Eilish Burke, RGN, RNID, BNS, MSc, PhD candidate and IDS-TILDA Project Director, School of Nursing and Midwifery, Trinity College Dublin. Eilish originally trained as a general nurse in the Meath Hospital, Dublin. Through her work with the Special Olympics she moved to the field of intellectual disability (ID) and later trained as a registered nurse intellectual disability (RNID) in 1990 and has worked in this field since. She has extensive experience working in all areas of ID especially with older adults. Having worked as a clinical placement co-ordinator with a large Dublin service Eilish completed her Masters studies in TCD and joined the IDS-TILDA team as a research assistant in 2010. Following completion of the first Wave of the study in 2011 she assumed the role of Project Manager of IDS-TILDA.

Research Interests
Eilish was awarded a PhD scholarship in TCD in 2013 and her study is exploring osteoporosis and risk factors for poor bone health among people with ID. Her related research interests include physical health and wellbeing of people with ID, inclusionary methods of healthcare screening and healthcare engagement, accessible health promotion and promoting research involvement of people with ID.

Keywords
Bone health, osteoporosis, osteopenia, intellectual disability, learning disability, inclusionary health care, accessible health promotion

Ms Gobnait Byrne  
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Professional Background
Gobnait Byrne is a lecturer in General Nursing. She has worked as a general nurse in Ireland, England and Australia. Her qualifications include Bsc Nursing, MPH and PG Dip in Statistics. She has worked as a lecturer in the School of Nursing & Midwifery in TCD since 2002.

Research Interests
Health of migrants and ethnic minority groups, health promotion, community nursing, intensive care and cardiovascular nursing

Current Research Projects
I have recently completed a PhD exploring the self-rated health of Polish migrants living in Ireland and where they accessed healthcare. This was a mixed methods study and phase one compromised focus groups and individual interviews while phase two was a survey of 903 Polish migrants.

Keywords
Health of migrants and ethnic minority groups, health promotion, community nursing, intensive care and cardiovascular nursing
Ms Margarita Corry
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Professional Background
Margarita Corry holds an assistant Professor post in the School of Nursing & Midwifery. She was awarded a Bachelor of Nursing Studies (NUI) from UCD, BSc. Hons. Psychology (Open university), MSc. (University of Manchester), Postgraduate Diploma in Statistics and PhD (TCD).

Research Interests
Caregiver research, Complex interventions, all aspects of neurological nursing in particular Multiple Sclerosis and Parkinson's disease, acute care nursing in particular aspects of care pertaining to Intensive care nursing.

Research Projects
1. Lead author on a Cochrane systematic review on the Cochrane registered title ‘Telephone interventions, delivered by healthcare professionals, for informal caregivers of adults with diagnosed illnesses’.
3. Awarded a Health Research Board research training fellowship (2010-2014) and Knowledge Dissemination funding in 2011.
4. Has published in leading nursing journals on subjects pertaining to complex interventions, caregiver issues and neurological nursing: https://tcdlocalportal.tcd.ie/pls/webapps/cerif.cerif_publications.main

Keywords
Complex interventions, Randomised controlled trial, Telephone intervention, Caregiver, Nurse specialist, Multiple Sclerosis

Professor Imelda Coyne
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Professional Background
Imelda Coyne is Professor of Children & Young People's Nursing. She has a B.Sc. in Nursing (Manchester University) and a PhD in Nursing from King's College London.

Research Interests
Children & adolescents’ participation in consultations and shared decision-making; triadic decision-making; interventions to promote shared –decision making; patient and family centred care; chronic illness management; transition from child to adult healthcare services; cancer research; young adults and adherence; technological solutions to information-exchange and patient empowerment; and health service evaluation.

Current Research Projects
1. I am currently investigating parents’ informational needs for their child’s transition to adult healthcare services. (PINCH-CF). This study is being carried out in collaboration with Leona Connolly, research assistant.
2. Supervisor of Kathleen Scotts’ Cochrane Fellowship Proteasome Inhibitor Treatment for Multiple Myeloma.
3. Supervisor of Helen Malone Cochrane review Interventions to promote shared decision-making for young people with cystic fibrosis.

Keywords
Shared decision-making, chronic illness management, adherence, patient & family centred care, transition, eHealth technology.
Dr Patricia Cronin  
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Professional Background  
Patricia Cronin is an Assistant Professor in Nursing. She has a BSc in Nursing & Education, an MSc in Nursing and a PhD.

Research Interests  
Chronic Illness

Current Research Projects  
Systemic antibiotics for malignant wounds: A Cochrane Review The purpose of this Cochrane review is to assess the effects of systemic antibiotics in the treatment of malignant wounds, including their safety, and their impact upon quality of life and related symptoms.

Keywords  
Chronic Illness

Ms Deirdre Daly  
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Professional Background  
Deirdre Daly is Assistant Professor in Midwifery (0.5) and Project Manager for the OptiBIRTH project (0.5) http://www.optibirth.eu/optibirth/. She has a BSc and PGCE from the University of Ulster, an MSc (Midwifery) from Queen’s University, Belfast, an MSc (Healthcare Ethics and Law) from the Royal College of Surgeons Ireland (RCSI), and an MA and PhD from Trinity College Dublin. The MAMMI (Maternal health And Maternal Morbidity in Ireland) Study http://www.mammi.ie/ is a multi-strand, multi-centre cohort study investigating prevalence and risk factors for a range of morbidities in 2600 primiparous women before and during pregnancy, and up to 12 months postpartum (Pis Prof Cecily Begley and Prof Mike Clarke). Deirdre completed her PhD on the urinary incontinence strand.

Research interests  
Maternal health and maternal morbidity, postpartum health, urinary incontinence, pelvic floor muscle exercises, childbirth, midwifery education.

Current research projects  
1. Women’s knowledge and practice of Pelvic Floor Muscle Exercises (PFME) and their opinions of PFME education. This is a two-phase survey of women’s knowledge of PFME before and during pregnancy, and women’s evaluation of four self-help educational videos on PFME and leaking urine.
2. The PLEASE (Postnatal Leaking, Exercise and Activity Shorts Evaluation) is a randomised, double-blind, cross-over trial comparing two types of ‘sports shorts’ with women’s feeling of security, comfort and confidence whilst exercising vigorously, and satisfaction with product, as the main outcomes.
3. ISCH COST Action IS1405 (2014-2018) http://www.cost.eu/COST_Actions/isch/Actions/IS1405 Building Intrapartum Research Through Health - an interdisciplinary whole system approach to understanding and contextualising physiological labour and birth (BIRTH). Deirdre is a management committee representative and leading Working Group (WG) 4, Organizational characteristics, contexts, cultures and economic costs of variation in rates of interventions in childbirth.

Keywords  
Maternal health and morbidity, childbirth, urinary incontinence, pelvic floor exercises, midwifery, midwifery education
Dr Louise Daly
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Professional Background
Louise Daly is a Registered General Nurse and an Assistant Professor in Nursing, with a particular interest in care of the older person and caring for people living with dementia. She has a BNS Nursing from University College Dublin and is a Registered Nurse Tutor, an MSc Nursing from the Royal College of Nursing London and a PhD from the University of Dublin.

Research Interests
Care of the older person, Age related care, Dementia, Living with dementia across the care continuum, Informal caring, Ethics in healthcare practice, Spirituality and dementia, Spirituality and older people, Professional nurse education, Clinical learning and assessment of learning, Sexuality and ageing

Current Research Projects
2. A Systematic Review Exploring The Experience of Spirituality from the Perspective of People Living with Dementia.
3. The development and testing of an evaluation tool that captures the immediate and long-term outcomes of the Foundation Programme in Sexual Health Promotion funded by the Health Services Executive.

Keywords
Dementia, Ageing, Care of the Older Person, Informal Carers, Healthcare Ethics, Nursing, Clinical Learning, Communication

Dr Louise Doyle
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Professional Background
Louise Doyle is an Assistant Professor in Mental Health Nursing. She has a BNS from Dublin City University and an MSc. and PhD from University College Dublin. She is also a registered psychiatric nurse and a registered nurse tutor.

Research Interests

Current Research Projects
1. An evaluation of POWER (Promoting our wellness and promoting recovery): A peer prisoner mentoring programme. (Funding by Suicide or Survive). (PI)
2. LGBTIreland Study: Exploration of mental health issues of LGBTI people in Ireland and public attitudes towards LGBTI people. (Funding by GLEN and BeLONGTo).
3. Developing Master's Level e-learning material in Mental Health. (Funding by EU lifelong programme/Erasmus Multilateral Networks).

Keywords
Self-harm, suicide, mental health, help-seeking, mixed methods research.
Dr Naomi Elliott
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Professional Background
Naomi Elliott is Associate Professor in General Nursing. She was awarded a M.Sc. in Nursing and a Ph.D, both degrees from Queen's University Belfast. She holds professional awards of Registered General Nurse and Registered Nurse Tutor from the registration body, the Nursing and Midwifery Board of Ireland (NMBI). She joined the School of Nursing & Midwifery, TCD in 2002.

Research Interests
Evaluation research; patient/service user collaborative research; case study research; new models of healthcare delivery; advanced practice; clinical leadership; professional leadership; leadership outcomes; leadership barriers; self-care management; chronic healthcare.

Current Research Projects
1. Principal Investigator of the How2tell study; we are currently developing an evidence-based educational resource (app, video, booklet) as a self management tool for people with epilepsy to enable them develop a repertoire of strategies for self-disclosure as part of everyday life.
2. Co-applicant of the SENsE (Specialist Epilepsy Nurses Evaluation) study. We are evaluating the role of the epilepsy nurse specialist, to determine the impact of this new role on the patient’s quality of life, and cost-effectiveness in epilepsy service delivery in Ireland.
3. We are currently analysing the barriers and enablers to leadership activities by advanced practitioners in nursing and midwifery.

Keywords
New models of healthcare delivery; quality healthcare delivery; outcome measures; chronic healthcare; advanced practice development.

Ms Louise Gallagher
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Professional Background
Louise Gallagher is a registered nurse, midwife, midwife teacher and lactation consultant. She is an Assistant Professor of Midwifery in Trinity College Dublin. She holds a Doctorate from Trinity College Dublin, an MSc (Midwifery Education) from University College Dublin and a BSc (Hons) in Midwifery from Kings College, London.

Research Interests
Louise was the research assistant to the team led by Professor Cecily Begley that undertook the National infant Feeding Survey (NIFS), funded by the Health Service Executive (HSE). She completed her Doctoral thesis on Sub-optimal breastfeeding experience and its effects on women, factors affecting initiation and duration of breastfeeding in Ireland. Her research interests are in the area of maternity care and specifically in infant nutrition and breastfeeding.

Current Research Projects
1. One of 3 PI’s on a study of the factors which enable Irish women to continue breastfeeding for six months: an international comparison with Sweden and Australia.
2. Co-researcher on a study of the effects of frenotomy on breastfeeding variables in newborn infants with ankyloglossia.
3. Co-researcher on a study that audits clinical reflection sessions, which are a key component of the undergraduate midwifery programme.

Keywords
Midwifery, breastfeeding, Infant feeding, Pragmatic mixed methods
Dr Colin Griffiths
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Professional Background
Colin Griffiths is Assistant Professor of Nursing. He trained as an intellectual disability nurse and practised in that clinical area for 27 years. He holds a doctorate which was undertaken in the School of Linguistic, Speech and Communication Sciences in the University of Dublin.

Research Interests
These include:
1. the methods and structure of interpersonal communication for people with profound and complex intellectual disabilities.
2. the application of technology to assist in unlocking the perspectives of people with profound and complex disabilities.
4. Person-centred planning and its role in supporting emancipatory healthcare.

Current Research Projects
1. Just completing a project entitled ‘Shaping the future of intellectual disability nursing in Ireland’ with Professor Mary McCarron and Dr Fintan Sheerin who were the PIs.
2. I am embarking on an exploratory study that aims to explore the subjective experiences of those with profound and complex disabilities. This study which is currently in the design stage will explore phenomenological understandings of people with profound intellectual and multiple disabilities in the context of the assistance that emerging augmentative and assistive technologies may offer.

Keywords
Intellectual disability, communication, nursing, intentionality, phenomenology.

Professor Agnes Higgins
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Professional Background
Agnes Higgins is Professor in Mental Health. She is a registered nurse in mental health and general nursing, and has a BNS from UCD, an M.Sc from DCU and a PhD from Trinity College. She joined the School of Nursing and Midwifery in 2000, was awarded provost teaching award in 2002, and was elected to fellowship in 2014. Professor Higgins has 59 peer-reviewed publications, an edited book, 12 chapters, 23 reports, >120 national/international oral/poster presentations. Graduated 6 PhD students. Visiting Professor at University of Ulster and chairperson of the Irish Institute of Mental Health Nursing.

Research Interests
Mental health recovery and social inclusion process, psychoeducational interventions, peer support and mutual help, family needs and supports, mental health morbidities in perinatal period, LGBTI populations, asylum seekers; physical health morbidities in people with enduring mental health problems.

Current Research Projects
1. PI on a national study on mental health issues within the LGBTI community and public attitudes towards LGBTI people, funded by GLEN and Belongto.
2. PI and leading and a multidisciplinary research team exploring the impact of peer (service-user/family member) and clinician-led recovery education for family members and people with a diagnosis of severe mental health problems, funded by GENIO and HSE.
3. PI on HRB/Epilepsy Ireland funded study into role, impact and economics of Epilepsy Nurse Specialist.
4. PI on Health Service Executive funded project mental health practice and policy in relation to recovery and positive risk taking.
5. Other research: co-investigator in the following studies: i) operation and effects of the Mental Health Act 2001, funded by Mental Health Commission; ii) longitudinal evaluation of the impact of a wellness intervention on mental health, funded by NOSP; iii) Maternal Mental Health Morbidities (depression anxiety and stress) among women in Ireland.
6. Involved in European project focused on developing e-learning material in Mental Health Recovery.
Dr Geralyn Hynes
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Professional Background
Geralyn Hynes is Associate Professor of Palliative Care. She has both an MSc and PhD from the University of Dublin.

Research Interests
Specialist/non-specialist palliative care interface; palliative care experience; uptake of palliative care policy at practice level; logotherapy and existential analysis; care giving; action research and participatory research methods;

Current Research Projects
1. We are exploring the development and adoption of non-specialist palliative care in the acute hospital setting. This work is supported through a HRB research training fellowship award to Mary Nevin from the School of Nursing and Midwifery.
2. Co-investigator in an evaluation of the Genio Dementia Programme. This evaluation is applying a RE-AIM framework to examine the impact of three hospital and two community initiatives aimed at improving the quality of dementia care and support.
3. Development of a community palliative care volunteer role in supporting people with advanced chronic illness to remain at home and maintain social interaction.
4. A survey of bereaved relatives to evaluate their perspectives on the quality of end of life care. There are two strands to this work namely to assess the feasibility of the method and processes involved in surveys of this nature in an Irish hospital context and secondly, to provide a basis for assessment of quality improvements and interventions addressing end of life care in our hospitals.
5. A photovoice project involving people who attended a respiratory clinic was developed to explore ways of enabling people with respiratory conditions to share their experiences with healthcare providers and wider public. This work resulted in a photographic exhibition that will be held across different sites in the coming year and is intended to generate dialogue between the participants and audiences. Evaluation is also underway.

Keywords
Palliative Care; Chronic Illness; Action Research

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Professional Background
Paul Keenan is Assistant Professor - Intellectual Disability Nursing. He has a BSc in Social Sciences from the Open University; a MSc in Inter-professional Health Care and a Postgraduate Certificate in Education from the University of East Anglia; and a Diploma in Religious Studies from the Pontifical University, St Patrick’s College, Maynooth. He is a Registered Nurse Intellectual Disabilities and Registered Nurse Tutor with NMBI.

Paul joined the School of Nursing and Midwifery, TCD in 2005. He is a former Head of Discipline (2008-2012). Since 2012 Paul is an executive member of Centre for Practice and Healthcare Innovation at TCD. In 2014 Paul was appointed Co-Chairperson of the national steering group Nursing Network in Intellectual Disability, Ireland.

Research Interests
Intellectual Disability Nursing Practice; Person-centred practice; Managing challenging behaviour, aggression and violence; community care, disability rights, disability social policy.

Keywords
Intellectual Disability Nursing Practice; Person-centred practice; Managing challenging behaviour, aggression and violence; community care; disability social policy and disability rights.
Dr Brian Keogh
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Professional Background
Brian Keogh is an Assistant Professor of Mental Health Nursing at the School of Nursing and Midwifery. He has a BNS from Dublin City University, an MSc from the University of Ulster and a PhD from Trinity College Dublin.

Research Interests
Mental health nursing, mental health nursing education, stigma and mental distress, recovery and mental health, mental health and older people, qualitative research, grounded theory, evaluation research.

Current Research Projects
2. Developing Master’s Level e-learning material in Mental Health
3. An evaluation of POWER (Promoting our wellness and promoting recovery): A peer prisoner mentoring programme.
4. A longitudinal study examining the attitudes of student nurses towards mental illness.

Keywords
Mental health nursing, mental health nursing education, stigma and mental distress, recovery and mental health, mental health and older people, qualitative research, grounded theory, evaluation research.

Professor Mary McCarron
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Professional Background
Mary McCarron, PhD, MA, RNID, RGN, BNS. F.T.C.D is Dean of the Faculty of Health Sciences, and recently appointed Personal Chair in Ageing and Intellectual Disability at Trinity College Dublin. Professor McCarron is the founding Principal Investigator to The Intellectual Disability Supplement to the Irish Longitudinal study on Ageing in Persons with an Intellectual Disability (IDS TILDA) (www.idstilda.tcd.ie), the first ever Longitudinal Comparative Study on Ageing in Persons with Intellectual Disability to be conducted in Ireland or internationally.

Her award winning approaches at the Daughters of Charity Services on environmental design and technology innovations are sustaining and improving quality of life for people across the continuum of dementia including end of life care. She has been a key advisor of ageing and policy issues to various governmental and other groups at a National and International level.

Current Research Projects
The intellectual Disability Supplement to The Irish Longitudinal Study on Ageing (IDS TILDA) is a nationally and internationally significant study unlocking the contributors to healthy ageing and continued community participation among people with intellectual disabilities and building understanding of the implication of similarities and differences with the ageing lives of those without disabilities.

A large scale longitudinal Study of Dementia in People with Down syndrome has plotted over 18 years the risk factors and incidence of dementia in persons with Down syndrome.

Extending Palliative Care to People with Intellectual Disabilities a component research program of the All-Ireland Institute for Hospice and Palliative Care is advancing the inclusion of people with intellectual disabilities in palliative and hospice care delivery.

Keywords
Ageing, Intellectual Disability, Down syndrome, Dementia, Palliative Care.
Dr Joan Lalor
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Professional Background
Joan Lalor is an Associate Professor of Midwifery and Director of Teaching and Learning Postgraduate. She holds a B.N.S, MSc and PhD in Midwifery, PG Diploma in Statistics and PG Diploma in Clinical Health Science Education from Trinity College Dublin. Joan has over 50 peer reviewed publications including a recently published book chapter and has presented widely at national and international conferences. Joan holds or has held grants from the Health Research Board, Irish Research Council and the HSE. Joan is also a member of the steering groups for the Identities in Transformation research theme and the newly emerging Medical and Health Humanities group.

Research Interests
Clinical and evaluation research within the following themes: i) Complex Pregnancy Care, ii) Optimising Maternity Health Service Delivery, iii) Research Methodology, Health Ethics and Law. However, as a member of the academy I am also centrally involved in a number of collaborative interdisciplinary projects across health, education and the humanities.

Current Research Projects
3. Improving the organisation of maternal health service delivery, and optimising childbirth, by increasing vaginal birth after caesarean section (VBAC) through women-centred care (OptiBIRTH).

Keywords
Prenatal diagnosis, midwifery and maternity care, medical and health humanities, research methodology.

Ms Denise Lawler
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Professional Background
Denise Lawler is Assistant Professor of Midwifery, School of Nursing and Midwifery. She is a nurse, midwife and midwifery educator. She has a B.Sc., MSc Advanced Midwifery, MA International Relations and PhD. Her research activities can be categorised as: (i) optimising access to maternity services for service users and (ii) theory generation. She joined TCD in as a lecturer in Midwifery 2006.

Research Interests
Women with a disability, transition to motherhood, midwife-woman interaction, access to maternity services, psychological adjustment to motherhood, human rights and student parents.

Current Research Projects
Denise is committed to ensuring that the voices of marginalised groups, especially women with a disability, are heard and that maternity services be configured to meet the specific needs of this population.
1. Co-Principal Investigator on a project evaluating the student parent support services.
2. Supervising a PhD student, awarded a Ussher Fellowship Award, exploring domestic violence in pregnancy.
3. Complete a grounded theory study exploring the transition to motherhood for women with a disability and the impact of the process on the self.
4. Was co researcher on a study exploring the strengths and weaknesses of the publicly funded health services in Ireland for women with a disability during pregnancy, childbirth and early motherhood.
5. Conducted a study exploring the lived experience of postnatal depression.

Keywords
Midwifery, women with disabilities, transition to motherhood, maternity services.
Dr Helen Evelyn Malone
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Professional Background
Helen Evelyn Malone, Research Fellow, School of Nursing & Midwifery, Trinity College, Dublin. Obtained a PhD and MSc, both from Trinity College Dublin and a Nurse Tutor Diploma from University College Dublin. Helen is a State Registered General Nurse (SRN), State Certified Midwife (SCM) and is registered on 3 divisions of An Bord Altranais agus Cnáimhseachais na hÉireann: Tutors’, General, and Midwives.

Research Interests
Presently, collaborating with a research team on qualitative research relating to the need for a psycho-educational programme for parents caring for children with the genetic disorder called 22q11 deletion syndrome.

Current Research Projects
Cochrane systematic review: Interventions for promoting participation in shared decision-making for children with cystic fibrosis. This review is registered with The Cystic Fibrosis and Genetic Disorder Group, Institute of Child Health, University of Liverpool, UK.

Keywords
Qualitative Research, Quantitative Research, Research design, Research methodology, Data analysis.

Dr Gabrielle McKee
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Professional Background
Gabrielle McKee, BA (Mod) PhD, Associate Professor of Biological Sciences, School of Nursing and Midwifery. Physiologist. Following on from employment in RCSI and the Open University she joined the School of Nursing and Midwifery at Trinity in 1997.

Current Research Interests
Implementing and evaluating healthcare interventions and innovations in chronic illness.
- Effectiveness of educational and other interventions on response time in acute coronary syndrome patients.
- Determining cardiac nurses’ cardiac guideline knowledge and the factors that influence it (PI, part funded by Irish Heart Foundation).
- Evaluating the outcomes of Phase III and e-based cardiac rehabilitation, patient self testing on Warfarin (Funded by NCNM, HSE).

Understanding the determinants of health:
- Physical activity in the aged, the factors that influence this and the influence of physical activity on health, particularly cardiovascular health.

Keywords
Ageing; cardiovascular disease; physical activity; cardiac rehabilitation;
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Professional Background  
RPN, RGN, RNT, BNS, MSc, MA, PhD, Dip. Nursing Management, Dip. Anatomy.  
I spent over 20 years in clinical practice working predominately with people who present with violence and aggression as a component of their mental health problem. I became a nurse educator in 2000, initially entering the School of Nursing in St Brendan’s Hospital in Dublin, then moving to join the staff of Trinity College in 2004. I have worked in a wide variety of clinical settings in both public and private sectors. I received the Provost’s Teaching Award in 2007. My Ph.D. thesis deals with professional dissonance working with the diagnosis of schizophrenia. It is an autoethnography of working in a community mental health team.

Research Interests  
My research interests include working with people diagnosed with psychosis, psychosocial intervention, psycho-education in psychosis, reflective practice and healthcare Informatics.

Keywords  
Mental Health, Nursing, Psychosis, Psychosocial Intervention, Psychoeducation, voice hearing, recovery, service user experiences, reflection

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Professional Background  
Dr. Mary Mooney is an assistant professor in the School of Nursing and Midwifery. She has a clinical background and a research interest in the area of cardiac nursing. She is the educational facilitator for the specialist postgraduate diploma in cardiovascular care nursing at Trinity College. Mary conducted a ground-breaking randomised controlled trial for her PhD. For this research she successfully reduced pre-hospital delay time among individuals with heart attack symptoms.

Research Interests  
Randomised controlled trials and qualitative research related to: entry to the nursing profession; nursing education; patient education; communication; reflection; cardiology; cardiac nursing; chronic cardiac illnesses; newly qualified nurses; professional socialisation.

Keywords  
Randomised Controlled Trials, cardiac nursing, nurse education, patient education, reflection, professional socialisation.
Ms Kathleen Neenan
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Professional Background
Kathleen Neenan holds an Assistant Professor post in the School of Nursing & Midwifery. She was awarded a Bachelor of Nursing Studies, BSc from UCD (NUI), MSc (University of Manchester). She is a trained Mindfulness Teacher (University of Bangor), Trained Mindful Self Compassion Teacher (University California San Diego).

1. Co-author on a Cochrane systematic review on the Cochrane registered title ‘Telephone interventions, delivered by healthcare professionals, for informal caregivers of adults with diagnosed illnesses’;
2. Co-author on a number of systematic reviews including a systematic review on interventions for caregivers of people with Parkinson’s disease and a systematic review on interventions for caregivers of people with CVA.
4. Researcher and Co-author on an exploratory ethnographic Study titled: The role of hospice day care in the care of patients with terminal illness http://www.tara.tcd.ie/handle/2262/73260.

Research Interests
Caregiver research, Parkinson’s disease, acute care nursing in particular aspects of care pertaining to Emergency Care.

Keywords
Caregiver, Parkinson’s disease, acute care nursing, cervical cancer, palliative care

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Professional Background
I am an Assistant Professor at the University of Dublin Trinity College. Since joining the University in 2001 I have been the Course Co-ordinator for the blended, online Access to Degree Programme, (2001-2003), Acting Director of the B.Sc (Cur.) (2003-2004), Course Co-ordinator for the M.Sc in Gerontology, (2006-2007) Programme Director for the inter-disciplinary M.Sc in Mental Health (CAFS), (2007-2012).

Current Research Projects
Currently I am conducting research on the evaluation of the interdisciplinary M.Sc in Mental Health, M.Sc in Palliative Care and the M.Sc in MH (CAFS) from all stakeholders’ perspective.

Keywords
Health, Mental health, Public Health, Palliative Care, Education, Psychiatry, Psychology, Sociology, Ethics, Communication, Health Sciences,
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Professional Background
Frances O’Brien is an Assistant Professor in the School of Nursing and Midwifery. She has a Bachelor in Nursing Studies from University College Dublin, an M.A (Ed) from NUI Maynooth and a PhD from the University of Dublin, Trinity College. She is also a registered general nurse and registered nurse tutor. For her PhD, Frances conducted a multi-site randomised controlled trial in which she tested the effectiveness of an individualised educational intervention on ACS patients’ knowledge, attitudes and beliefs about acute coronary syndrome.

Research Interests
Cardiac nursing, cardiology, cardiovascular health and recovery, chronic cardiac disease, patient education, motivational interviewing, communication and randomised controlled trials.

Current Research Projects
Planning for a new nurse-focused cardiology research project is under way.

Keywords
Cardiac nursing, Cardiology, Patient Education, Randomised Controlled Trial.
School of Medicine
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The School of Medicine accounts for approximately one quarter of the total research income for the College, making it an extremely vibrant and research-active school. The main research themes of the School of Medicine are: cancer, ageing, immunology and infection, genetics, neurosciences, molecular medicine and population health. Please visit the School’s research page for full details:
medicine.tcd.ie/research
Dr Ciaran Bannan
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Professional Background
Dr Ciaran Bannan is a clinical specialist in Infectious Diseases and General Internal Medicine and graduated from University College Dublin. He is currently studying towards a PhD at Trinity College Dublin.

Research Interests
HIV; Hepatitis C; vaccines; Interferon signalling and the JAK-STAT pathway; Natural Killer cells; new therapeutic agents for Hepatitis C; point-of-care testing; clinical trials; immune evasion

Current Research Projects
1. We are conducting a Phase I study assessing the safety and immunogenicity of prime-boost immunisations with novel Hepatitis C vaccine candidates AdCh3NSmut1 and MVA-NSmut in HIV-1 seropositive adults on antiretroviral therapy. This study is being carried out in collaboration with University of Oxford, Kantonsspital, St Gallen and GlaxoSmithKline Biologicals SA.
2. We are involved in looking at the effect of HIV, Hepatitis C and co-infection on Interferon-signalling and the JAK-STAT pathway compared to healthy volunteers both prior to and during various treatments.
3. We are involved in looking at the Natural Killer cell landscape in HIV, Hepatitis C and co-infection.
4. I am involved in a Phase 4 study looking at the renal effects of various therapeutics for HIV-1.

Keywords
HIV, Hepatitis C, Vaccines, Point-of-care testing, Interferon Signalling, Co-infection, Natural Killer Cells

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Professional Background
Joe Barry is Professor of Population Health Medicine in TCD and Consultant in Public Health Medicine at the HSE.

Research Interests
Substance use, Blood-borne viruses, Inequalities in Health, Implementation, Health Services Research

Current Research Projects
1. Cochrane review of Psychosocial Interventions for problematic benzodiazepine use.
2. Estimation of mortality in Dublin’s homeless population.
3. Examination of pathways to recovery in opiate addiction.
4. Health needs and asset mapping in Tallaght—a community survey
5. Implementation of screening and brief advice for alcohol use
6. Neurobiology of addiction

Keywords
Illicit drugs, alcohol, blood borne viruses, inequalities, health services research
**Professor Colm Bergin**  
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**Professional Background**  
Professor Colm Bergin is a Consultant Physician in Infectious Diseases, St James's Hospital, Dublin and Clinical Professor of Medicine at Trinity College Dublin. He is the Associate Director of the Wellcome-Health Research Board (HRB) Clinical Research Facility, St. James's Hospital Dublin.

**Research Interests**  
Professor Bergin is the co-director of the Department of GU Medicine and Infectious Diseases Clinical Studies Unit, the department has an active national and international research reputation. Professor Bergin has secured funding from national and international funds including FP-7 funding in 2012. He is the supervisor for a number of MD and PhD degrees covering research topics in medical education, cost effectiveness of medical care (HIV and HCV), molecular and clinical epidemiology, immunology of host response to infections (TB and HCV), neurocognitive disease in HIV infection and innovative interventions to affect social behaviours in disease modelling.

**Keywords**  
Cost effectiveness of medical care, molecular and clinical epidemiology, immunology of host response to infection

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**Professional Background**  
Arun Bokde is Assistant Professor of Neuroimaging in the School of Medicine (Discipline of Psychiatry) and is a PI in the Trinity College Institute of Neuroscience. He has a BSc, MSc and PhD (Univ Texas) in Engineering and post-doctoral training at Northwestern University (USA) and at the National Institutes of Health (USA). He was a research scientist for 8 years in the Department of Psychiatry at the Ludwig Maximilian University Munich (Germany) before coming to TCD in 2007.

**Research Interests**  
Functional magnetic resonance imaging; magnetic resonance imaging; diffusion imaging; diffusion tensor imaging; tractography; memory; learning; visual perception; normal ageing; preclinical Alzheimer’s disease; Alzheimer’s disease; neurodegeneration; Mild Cognitive Impairment; neural networks; brain development; adolescent brain development; hippocampus; functional connectivity; stress; brain networks; cognitive training; brain training; neural plasticity

**Current Research Projects**
1. Co-PI in the multi-centre European Diffusion Study on Dementia (EDSD).
2. Investigation of ageing-related and genotype-related changes in brain activation during a working memory task.
4. Lead PI in the Neuroimaging Skills in Dementia (NeuroSKILL).
5. Co-PI in the multi-centre EU Imaging in Genetics (IMAGEN) examining brain development and risk factors for psychiatric disorders in adolescents.

**Keywords**  
Functional magnetic resonance imaging; brain structure; brain development; neurodegeneration; biomarkers; memory
Ms Joan Brangan  
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Professional Background
Joan's clinical experience in occupational therapy in Ireland and Canada includes older adults and mental health. She has an MSc. in Community Health from TCD, and is assistant Professor in the Discipline of OT.

Research Interests
Healthy ageing, ageing in place, cognitive impairment and rehabilitation, dementia, occupational engagement, falls and mobility, technical aids, low vision, environmental design, long term care.

Current Research Projects
1. Along with colleagues in the UK, Co-analysing with colleagues from the UK, low vision in older adults, activity restrictions and the impact of low vision on occupational and social participation and well-being. This involves a scoping review of current literature. Preliminary findings presented at Occupational Science Europe meeting in the UK on 03.09.15.
2. Using the assessment tool for occupational and social engagement (ATOSE), currently co-investigating engagement levels of long stay patients in a secure mental health unit. This benchmark data will then be compared to engagement levels during and following implementation of an OT activity programme.
3. Proposal submitted to the NHS (SBRI) 01.09.2015 with colleagues from School of Nursing & Midwifery and Business Partners for NHS funding for RTC trial. This will involve measuring the change in bed mobility using a low-tech wearable technology solution for older adults.

Keywords
Ageing, dementia, environmental design, occupational engagement, falls prevention.

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Professional Background
Paul Browne is Professor of Haematology at Trinity College Dublin, and Consultant Haematologist and Director of the National Adult Stem Cell Transplant Programme at St. James’s Hospital Dublin. He is currently Head of the School of Medicine at Trinity College Dublin. He has collaborated on laboratory studies of myeloma biology, including a focus on genetic susceptibility in DNA repair pathways, in work funded by the HRB and the Irish Cancer Society. He was Chair of the Irish Cooperative Oncology Research Group (ICORG) from 2008 to 2012, leading the successful ICORG international peer-reviewed HRB multi-million euro grant renewal to support clinical translational research in cancer. Recently, he has led a TCD group in conjunction with colleagues in Cork and Galway developing a major programme on cellular therapy funded by the National Blood Centre.

Current Research Projects
Laboratory translational research, John Durkan Laboratory, Institute of Molecular Medicine TCD/St. James's campus: Research within the John Durkan Leukaemia/Institute of Molecular Medicine laboratories focuses on the molecular and cellular basis of haematological malignancies and related disorders, with particular emphasis on translation of this research into new diagnostics and therapeutics.

- Molecular pathogenesis of myeloma.
- Multiparameter immunophenotyping for residual disease analysis in leukaemia.

Keywords
Leukaemia, Myeloma, Cell Transplant, Novel Therapeutics
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Professional Background
Dr Anne Marie Byrne joined the Dept of Clinical Medicine in 2006 as a postdoctoral researcher. She has a B.Sc. in Analytical Science from Dublin City University and a PhD in Cell Signalling and Cancer from the Royal College of Surgeons in Ireland. She won numerous awards at national and international conferences and was awarded the Roche Research of the Year in 2008 and 2009. She was promoted to Senior Research Fellow in 2015.

Research Interests
Translational cancer research; Golgi Biology, protein trafficking, protein secretion, Barrett’s Oesophagus, Oesophageal cancer, biomarkers; therapeutic targets; industry collaborations; clinical trials.

Current Research Projects
Dr Byrne has a keen interest in understanding the cellular and molecular signalling mechanisms underlying oesophageal cancer development. She is currently funded by the Irish Cancer Society. Her research focuses on understanding the fundamental mechanisms underlying protein biogenesis, trafficking and secretion, in order to address unmet clinical needs for the diagnosis, treatment and management of oesophageal cancer. Based at the Trinity centre for Health Sciences at St James’s hospital Dr Byrne adopts a translational approach in order to identify novel serum biomarkers capable of identifying patients with premalignant and malignant oesophageal disease. Identifying key clinical problems and focusing on research that will ultimately help the patient is a key element driving her research.

Keywords
Golgi apparatus, protein trafficking, Oesophageal cancer, Barrett’s Oesophagus, Biomarkers, Cell signalling, cell invasion, Secretome analysis

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Professional Background
Elizabeth Connolly is a Consultant Breast Surgeon SJH and Associate Professor Trinity College Dublin. She graduated from the Royal College of Surgeons in Ireland and did her surgical training on the Irish Surgical Specialist Training programme prior to completing a Fellowship in Breast Surgical Oncology in the University health network, Toronto, Canada.

Research Interests
Our research group is comprised of a multidisciplinary group of surgeons, scientists, radiologists, pathologists, research physiotherapists and data managers. Our major research interest involves investigating the role of lifestyle factors including obesity and its associated metabolic syndrome in breast cancer initiation and progression.

Current Research Projects
1. We are currently investigating the molecular events involved in driving the development and progression of breast cancer in the context of obesity and the metabolic syndrome.
2. We are conducting a prospective study to investigate predictive and modifiable risk factors for the development of breast cancer in a cohort of BRCA mutation carriers. This ongoing study aims to evaluate how lifestyle factors such as body composition physical activity and diet can impact breast cancer susceptibility in unaffected BRCA mutation carriers.
3. Central to our research, we maintain a breast cancer blood and tissue biobank of high quality samples linked to up to date clinical information. This biobank provides us with the patient material necessary to meet our research objectives.

Keywords
Breast Cancer, Obesity, Metabolic Syndrome, Modifiable Risk Factors, Mammary Adipose Tissue, Familial Breast Cancer
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Professional Background
Agnella Craig is an Assistant Professor in Trinity College Dublin and was recently appointed Head of the Discipline Radiation Therapy. She has a D.C.R.(T), a H.DIP.C.SC. (UCC), and a PG Cert (Statistics), an M.A., and M.SC., from TCD.

After qualifying as a Radiation Therapist, Agnella worked in a number of radiotherapy departments before returning to education to study Computer Science in UCC. On joining Trinity College in 2003 as a member of academic staff on the undergraduate BSc programme in Radiation Therapy, she completed a part-time MSc in Health Informatics.

Her research interests focus on education: in the student population, she is interested in methods of teaching and learning and in the patient population; she is interested in making patient information accessible for all patient groups. She is currently working on her PhD which is assessing the relationship of cancer knowledge, health literacy and decision making in prostate cancer patients, and she is a member of a steering group on a joint NALA/Irish Cancer Society project.

Research Interests
Cancer, Health Literacy, Decision Making, Patient Education and Information, Teaching and Learning

Current Research Projects
2. The Website Study: An evaluation of the satisfaction and usage of a dedicated web-based patient information resource.
3. Assessing the usability of a dedicated web-based patient information resource.
5. Re-designing a web based resource for Sarcoma patients.

Keywords
Cancer, Health Literacy, Decision Making, Patient Education

Katie Cremin
Assistant Professor
School of Medicine

Professional Background
Katie Cremin is an Assistant Professor of Occupational Therapy. She has a B.Sc. in Occupational Therapy and an MSc in Health Informatics from the University of Dublin. She is also currently carrying out her PhD at the Children’s Research Centre and School of Psychology. She previously worked as an Occupational Therapist in Child and Adolescent Mental Health.

Research Interests
Autism; Emotional, Behavioural and Social factors in Autism and School participation; Dynamic Systems theories of child / youth development; Motor co-ordination and fundamental movement skill in children and youth.

Current Research Projects
1. Main focus in my PhD studies looking at social, behavioural and emotional factors in the experience of secondary school for students with Autism.
2. Irish norms for balance and fundamental movement skills in children in collaboration with Discipline of Physiotherapy.
Dr Derek G. Doherty
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Professional Background
Derek Doherty is Associate Professor of Immunology. He has a BA(Mod) in Biochemistry from TCD and a PhD in Immunogenetics from the University of London. He joined the School of Medicine in 2008 as a Lecturer in Immunology. In 2012 he was elected Fellow of Trinity College.

Research Interests
Dr Doherty’s research is focused on the mechanisms by which the immune system can protect against or cause disease in humans and how it can be manipulated for the development of novel therapies. His group is particularly interested in innate T cells, which appear to be “master regulators” of the immune system, and which are defective in many infectious and immune-mediated diseases and cancers.

In collaboration with clinical colleagues, Dr. Doherty has studied innate T cell populations in patients with hepatitis B virus, HIV and Candida albicans and patients with chronic lymphocytic leukaemia, septic shock, coeliac disease and antibody deficiencies. The results show that particular innate T cells can be manipulated to promote the generation of desirable immune responses for the treatment of disease.

This research has led to the publication of over 90 papers in international peer-reviewed journals.

Keywords
Immunology, human, T cells, B cells, HIV, cancer, NKT cells, gamma/delta T cells, cytokines

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Professional Background
Professor Seamas Donnelly is Dean of Research and Professor of Medicine at the School of Medicine. He represents the classical researcher in Translational Medicine, where clinical problems are brought back to the bench and novel compounds are evaluated and in a classical bi-directional approach taken back to the clinical interface as potential therapies. He has been awarded over €30 million in grants as PI or Co-Pi in the recent past. He has been awarded an honorary Professorship for “international leadership in Translational Medicine” by the University of Edinburgh. He is Trinity Lead PI on the recently awarded National Health Innovation Hub (NHIH). He was one of the first clinicians to obtain an SFI Investigator Programme grant which he has held over the past 12 years.

Research Interests
- Developing lead anti-inflammatory & anti-cancer candidates for Drug Discovery
- Biomarkers guiding treatment
- Genetic profiling and Clinical Trials
- Community sensors, quality of life & Connected Health.

Keywords
Translational Medicine, Molecular Biology, Connected Health.
Dr Eric Downer
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**Professional Background**
Eric Downer is an Assistant Professor in Human Health and Disease. He has a B.A.(Mod) in Physiology and a PhD in Neuroscience, both from Trinity College Dublin. He previously held a position as Lecturer in the Department of Anatomy and Neuroscience at UCC (January 2013 – May 2015), where he also acted Director of the Biosciences Imaging Centre. He joined the School of Medicine in June 2015 as Assistant Professor, and also acts as the Director of the B.Sc. in Human Health and Disease.

**Research Interests**
Multiple Sclerosis (MS) research; Innate immune signalling; Cannabinoid Pharmacology; Neuroimmunology; Patient-oriented research; Neuroscience; Biomarkers; Novel therapeutic targets; Neuropathology; Post-mortem studies; Dental research; Neuropathic orofacial pain; Exercise Physiology; Cognitive research;

**Current Research Projects**
1. Evaluating endogenous interferon signature as a therapeutic target in MS
2. Neuropathological analysis of lesion activity in post-mortem human MS tissue
3. Impact of aerobic exercise on immune parameters and cognition in MS patients

**Keywords**
Neuroscience, Immunology, Physiology, Exercise, Translational research, Neuropathology

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**Professional Background**
Andrew J Fagan is Director of Imaging Physics (since 2008) in the National Centre for Advanced Medical Imaging. B.Sc./ M.Sc. - TCD, Ph.D. - University of Aberdeen. Over €1M in research funding, 60 peer-reviewed papers, 64 conference abstracts, 126 conference presentations. Fellow of IPEM (UK), won several prestigious awards for research excellence, commercialisation / technology spin-out experience.

**Research Interests**
Quantitative techniques in MRI / Ultrasound Imaging; cancer; neuroimaging, novel MRI system design; radiofrequency coil design; prostate cancer;

**Current Research Projects**
1. Development of highly accelerated MRI acquisition techniques using compressed sensing for dynamic contrast enhanced (DCE) imaging in prostate cancer. (Irish Cancer Society)
2. Development of quantitative dynamic contrast enhanced ultrasound imaging for liver cancer detection and therapy monitoring (IRC)
3. Development of a pedagogic training and assessment tool for breast ultrasound imaging (Enterprise Ireland)
4. Investigation of cholinergic neurotransmission and regulation in patients with bipolar disorder via MRI (HRB)

**Keywords**
MRI; ultrasound; quantitative imaging; physics; bioengineering; medical device design; instrumentation development;
Professional Background
Prof. Fallon is the Science Foundation Ireland Stokes Professor in Translational Immunology (2008) in the School of Medicine. Prof. Fallon is head of the Translational Immunology Group with research groups based in the Trinity Biomedical Sciences Institute, Trinity Translational Medicine Institute at St James’s Hospital and the National Children’s Research Centre, Our Lady’s Children’s Hospital, Crumlin.

Research Interests
Prof. Fallon’s research is in the arena of elucidate underlying mechanisms of aberrant immune function and developing novel therapeutic strategies for inflammatory diseases. Research is translational spanning animal models and studies on patients.

Current Research Projects
1. Director of the Paediatric Research in Translational Immunology (PRiTI) Programme.
2. Helminth modulation of immunity.
3. Processes of fibrosis and development of biotherapeutics for fibrotic disorder.
4. Innate immunity and ILC2 functions.
5. Immune modulation of obesity and metabolic syndrome.
6. Genetic and environmental regulation of atopic dermatitis and asthma.
7. Immune and microbiome modulation of intestinal inflammation.

Keywords
Immunology, inflammation, allergy, asthma, atopic dermatitis, inflammatory bowel disease, obesity, fibrosis, biotherapeutics, immune-modulatory, helminth.

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Professional Background
Ciarán Finucane is a Medical Physicist at Mercer’s Institute for Successful Ageing (MISA), St. James’s Hospital and Adjunct Assistant Professor of Medical Gerontology. He has a PhD in Neural Engineering and Clinical Medicine from Trinity College Dublin and a B.E. and MSc in Electronic and Electrical Engineering from UCD. He worked in TILDA as Lead Biomedical Engineer, as a Clinical Engineer in Technologies for Older People at MISA and rehabilitation engineer at the National Rehabilitation Hospital in Dun Laoghaire.

Research Interests
Ageing, Neurocardiovascular and autonomic function measurement and control, Cerebrovascular Function, Neural Engineering, Multiscale physiological modelling and measurement, Medical devices, Assistive technology, Connected Health, Clinical trials.

Current Research Projects
• Investigating the role of cerebral perfusion measurements in ageing with a focus on diagnosis of syncope and unexplained falls in older adults in collaboration with Prof. Rose Anne Kenny at St. James’s Hospital and Prof. Richard Hughson at University of Waterloo, Canada.
• As part of the Irish Longitudinal study on Ageing (TILDA) I am current member of the neurocardiovascular working group and advise the team on autonomic function, beat-to-beat blood pressure and cerebral perfusion measurement and analysis in this study. I am currently addressing the research question: “What is the role of neurocardiovascular control in unexplained and all-cause falls?”
• Experimental and simulation studies investigating the underlying mechanisms of syncope with a view to identifying etiology, biomarkers and novel treatments of Carotid Sinus Syndrome, Orthostatic Hypotension and Vasovagal Syncope.
• Connected health solutions for ageing including Atrial Fibrillation Detection App.
Dr Jean Fletcher
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Professional Background
Jean Fletcher is Assistant Professor in Translational Immunology. She has a PhD in Immunology from the University of London.

Research Interests
Immune regulation in human disease; the role of Treg cells and Th17 cells in autoimmunity and cancer.

Current Research Projects
1. The role of metabolism and hypoxia in regulating human T cells
2. Targeting dysregulated bioenergetics in the inflamed rheumatoid arthritis joint
3. Dysregulation of immune responses in skin inflammation (Hidradenitis suppurativa and psoriasis)
4. Investigation into the mechanism of action of dimethyl fumarate in psoriasis and multiple sclerosis
5. Dose related effects of vitamin D on healthy controls and patients with clinically isolated syndrome

Keywords
Translational immunology, immune regulation, T cells, metabolism, Th17 cells, Treg cells, autoimmunity, cancer

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Professional Background
Geraldine holds a PhD, MSc.OT and BSc.OT from Trinity College Dublin. She is an Assistant Professor in the Discipline of Occupational Therapy, School of Medicine. She has also worked as a HRB Research Fellow at the School of Social Work & Social Policy, TCD.

Research Interests
To date, her research has focused on quality of life among people with ALS and on their perceptions of healthcare services including their preferences for and decision making in care. Her PhD investigated how people with ALS/MND engage with healthcare services. Her most recent work has explored the reciprocal nature of care giving between ALS patients and their family caregivers.

Current Research Projects
1. Collaborator on a HRB Interdisciplinary Capacity Enhancement (ICE) research programme (lead PI Prof. Orla Hardiman, TCD) focused on healthcare services in ALS (2012-2015)
2. HRB Research Training Fellowship for Healthcare Professionals (2011-2014). Grant title: Understanding and Use of Healthcare Services by People with Amyotrophic Lateral Sclerosis/Motor Neurone Disease (Primary Investigator for HRB)

Keywords
Amyotrophic lateral sclerosis, neuropalliative care, neurodegeneration, quality of life and wellbeing, qualitative research methods, grounded theory, neuro-rehabilitation, occupational therapy (neurology)
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Professional Background
Rebecca Gaffney is a research assistant in the Academic Unit of Neurology. She has a BSc. in Psychology through Science from Maynooth University and a MSc. in the Foundations of Clinical Psychology from Bangor University North Wales.

Research Interests
Longitudinal research; Motor Neuron Disease; Quality of Life of patients and caregivers; Mental health of patients and caregivers; service use; Burden of MND.

Current Research Project
The project on ‘ALSCarE in Europe’ is a major inter-institutional initiative funded by JPND. Professor Hardiman is the European Coordinator working out of the Academic Unit of Neurology in Trinity College Dublin. 300 incident and 500 cross sectional participants are being recruited along with their caregivers.

Data collection is currently underway at sites in Ireland, UK, Netherlands, Germany, Italy and Belgium and a cluster analysis will be performed. Participants are visited in their homes every four months, for a total of five visits to complete a workbook which consists of a battery of measures to examine caregivers’ quality of life and experiences from diagnosis to end of life. In addition, a health economic analysis was devised to examine resource utilisation and for pharmaco-economic analysis of new therapeutics. This international research project will provide a wealth of information from across Europe to develop a best practice framework for the management of patients with ALS. It is envisaged that this framework may subsequently be modified for the management of other neurodegenerative diseases.

Keywords
Motor Neuron Disease / Caregiver / Patient / Quality of Life / Mental Health / Service use

Professor Michael Gill  
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Professional Background
Michael Gill is Professor of Psychiatry and Head of Discipline. He leads a team involved ongoing Phenotypic and Genomic investigations into Autism, Psychosis and ADHD. The goal of this research is to investigate the function of genetic variation contributing to disease risk as a means of improving understanding of disease biology, developing better diagnostics, and new therapeutic approaches. The group analyse neurocognitive and imaging phenotypes to support genomics and have developed TrinSeq, Ireland’s first next gen sequencing resource. The group participate in large collaborative genomics studies leading to significant discoveries published in Nature, Nature Genetics and Archives of General Psychiatry.

Michael is director and principle investigator of the Wellcome Trust Clinical Research Facility at St. James’, and co-director of the HRB Clinical Research Coordination Ireland. He is a founding director of the TCD spin-out ‘Empower the User’ that trades in simulated communications skills training and education, and a Board member of Trinity College Institute of Neuroscience and Molecular Medicine Ireland.

Keywords
Clinical Research, Clinical Trials, Regulatory affairs, IMP, Experimental medicine, Medical devices
Professional Background
Orla Hardiman is Professor of Neurology in the School of Medicine, and Academic Director of TBSI. She is also a Consultant Neurologist at Beaumont Hospital. She is a graduate of UCD (BSc, MB BCH BAO and MD). She undertook her specialist training in Neurology in Harvard associated Residency and Fellowship programmes in Boston.

Research Interests
Bi-directional translational research; epidemiology and population genetics, deep phenotyping, genetics and genomics, genetic pleiotropy, diagnostic biomarkers; prognostic biomarkers; predictive markers; novel therapeutic targets; clinical trials

Current Research Projects
1. The Irish ALS /MND Register is a population based Register of Motor Neurone Disease that has been in operation for over 20 years, and contains details of over 2000 people with MND.
2. A population based study of cognition and behaviour in ALS
3. Multimodal imaging of ALS and Frontotemporal Dementia
4. Project MinE- whole genome sequencing of 1000 DNA samples from extensively phenotyped ALS patients and geographically matched controls
5. Population genetics – Mapping the genetics of ALS using identity by descent
6. Novel biomarker development using spectral EEG and mapping changes in motor networks using novel neural engineering based tools
8. Drug development – use of TRH analogues as therapeutic agents in neurological conditions
9. Health services – mapping patient journeys in ALS , analysis of carer burden and quality of life
10. Mapping of Palliative Care needs in ALS
11. Health Economics of ALS

Keywords
ALS, Neurodegeneration, Genomics , Genetic Pleiotropy Biomarkers , Epidemiology, Drug Development , Neuropharmacology, Deep Phenotyping

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Professional Background
Catherine Hayes is Associate Professor of Public Health/Specialist in Public Health Medicine in the Discipline of Public Health and Primary Care. She is a UCC graduate. She has a Master in Public Health and Medical Doctorate from University College Dublin.

Research Interests
• Public health aspects of obesity prevention across the life course, other lifestyle factors (esp. smoking) and chronic disease prevention especially cancer prevention.
• Cancer screening
• Developing and implementing behavioural interventions (particular diet and physical activity related) to address obesity across the life-course including technology-dependent interventions.
• Applying implementation science to implementation of interventions.
• Health Inequalities

Current Research Projects
• "Conditions for the successful implementation of good practice and multi-component interventions for diet, physical activity and sedentary behaviour and their transfer across Europe” under EU Joint Programming Initiative (JPI) Determinants of Diet and Physical Activity (DEDIPAC)
• Designing, evaluating and implementing a pilot complex intervention in childhood obesity
• She is the beneficiary of a funding award from National Cancer Institute, Bethesda, Maryland, US and Health Research Board to attend “Molecular Aspects of Cancer Prevention and Control”. Summer Curriculum Programme at NCI, August 2015

Keywords
Obesity, Cancer, Public Health
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Professional Background  
Fionnuala Hickey is a Senior Research Fellow in the Trinity Health Kidney Centre. She has a BAMod in Human Genetics from Trinity College Dublin and a PhD in Biochemistry from University College Cork. She has previously held research positions at Duke University, University of Chicago and University of Sheffield. She joined the Department of Clinical Medicine in 2013.

- Published 15 peer-reviewed articles
- Awarded HRB Career Development Fellowship
- Invited reviewer for Journal of Physiology & Pharmacology
- Judge for Irish Laboratory Awards
- Awarded numerous prizes for presentations

Research Interests  
Her research focuses on the role of mitochondrial biogenesis, dynamics and respiration and glucose metabolism in cell signalling and function. Her current primary area of research is ANCA-associated vasculitis, a severe multi-system autoimmune condition affecting the microvasculature. In its most severe form it manifests with rapidly progressive glomerulonephritis (RPGN) and vasculitis of the respiratory tract. In this context she currently supervises a PhD student along with a number of MSc and undergraduate students both from TCD and through the ERASMUS programme. She also acts as scientific advisor to the Rare Kidney Disease Biobank.

Keywords  
Autoimmunity; ANCA; Metabolism; Mitochondria; Cell signalling; Inflammation

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Professional Background  
Juliette Hussey is an Associate Professor in the Discipline of Physiotherapy. She has an MSc from Kings College London and a PhD from the University of Dublin. She joined the Discipline of Physiotherapy in 1992 as a lecturer and in 2011 she was elected Fellow of Trinity College Dublin.

Research Interests  
My research is translational and is aimed at scientifically improving exercise prescription to optimise therapeutic responses. In addition the challenge in the area of exercise and cancer is to determine underlying mechanisms and my group is working with clinical scientists in this respect. We are recognised for our expertise in activity measurement, exercise prescription and experience in running exercise interventions in clinical cohorts. My research group currently consists of two post-doctoral fellows, two research assistants and three PhD and two MSc students

Current Research Projects:
1. ReStore study (examining rehabilitation needs in patients post oesophageal resection) HRB funded project (PI)
2. ExPeCT (Evasion of immune editing by circulating tumour cells is an exercise-modifiable mechanism underlying aggressive behaviour in obese men with prostate cancer) World Cancer Research Fund Grant (co-applicant)
3. PREPARE (preoperative inspiratory muscle training to prevent postoperative pneumonia in patients undergoing oesophageal resection) EU study
4. Preoperative fitness and postoperative outcomes in colorectal surgery. PhD student college award

Keywords  
Cancer, survivorship, exercise rehabilitation, pre-operative rehabilitation
**Bridget Kane**  
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**Professional Background**  
Bridget Kane is a Research Fellow in the Centre for Health Policy and Management. Her background is in Biomedical Science (DIT and UWE). She holds MSc in Health Informatics and MSc Management (Organisation Behaviour) from University of Dublin. Her PhD in Computer Science is also from the University of Dublin.

**Research Interests**  
Health Services Research and the application of information communication technology in healthcare. Teamwork, information communication, interaction and decision-making. Telemedicine, computer-mediated communication and human-computer interaction in healthcare.

**Current Research Projects**  
Our current research examines the resources, and the distribution of resources, in Urgent and Emergency care in Ireland, in WP3 of the SIREN project. The resource distribution is being examined in the context of the geographic distribution and social deprivation of the population. The SIREN project is funded by the Health Research Board (HRB) through a Collaborative Applied Research Grant with collaborators at UCC, RCSI and UCD.

**Keywords**  

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**Professor Joseph Keane**  
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**Professional Background**  
Joseph Keane is a Professor in Respiratory Medicine in Trinity College Dublin and Director of the Tuberculosis Immunology Research Laboratory. He is a consultant respiratory physician in St. James’s Hospital and the founder of the St. James’ Hospital’s supra-regional tuberculosis centre. Prof Keane has a Doctorate in Medicine (TCD), a BSc. in Pharmacology (UCD) and an hons MB. BAO BCh BA (TCD). He was a former research fellow & Assistant Professor of Medicine in Boston University. He has generated research grant funding in excess of €8 million to date from sponsors including the Health Research Board, Science Foundation Ireland and Royal City of Dublin Hospital Trust. His NEJM article on ‘Tuberculosis and TNF blockers’ has been cited more than 3000 times.

**Research Interests:**  
Infection and Immunity, Molecular Medicine, Translational Medicine and Global Health. Tuberculosis, lung diseases.

**Current Research Projects**  
- Defining the tuberculosis susceptibility of smokers  
- Improving TB vaccines by innate immune manipulation  
- Developing inhalable microparticles as adjuvant therapy for tuberculosis  
- Improving the host response to tuberculosis with retinoids  
- Defining the immunometabolomics of TB host response  
- Characterising the contribution of Mal to the Interferon gamma driven host response to Mtbc.

**Keywords**  
Lung Cancer, Innate immunology; Apoptosis; Respiratory System; Medicine; Infectious diseases; Host, Pathogen interactions , TB Research, host & macrophage response.
Dr Julie A. Kelly  
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Professional Background
Julie A. Kelly holds a BSc (Hons) in applied chemistry from the University of Huddersfield and has an MSc in physiology and a PhD in neuroscience from the University of Manchester Medical School, UK. On completion of her PhD in 1979, she was awarded a NATO Postdoctoral Fellowship to conduct research at Baylor College of Medicine, U.S.A. In 1995, she was awarded a Wellcome Trust Re-entry Fellowship to carry out her research in the Biochemistry Department at Trinity and has since received significant funding from the Wellcome Trust, EI, HRB, SFI and Research Motor Neuron. She is now based in the Academic Unit of Neurology where she is currently working with Professor Orla Hardiman on the development of thyrotropin-releasing hormone (TRH)-based therapeutics for motor neuron disease and other neurodegenerative disorders. In addition to published work, patent applications have been filed relating to novel discoveries arising from Dr Kelly’s research.

Keywords
Neurodegeneration, neurotherapeutics, thyrotropin-releasing hormone (TRH), neuropeptides, neuropharmacology

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Professional Background
Dr. Kennelly is a consultant physician in geriatric medicine in Tallaght hospital and a clinical senior lecturer in the department of medical gerontology, TCD.

Research Interests
Dr Kennelly’s research interests include: Dementia, Delirium, neurocardiovascular instability, health services research, stroke, and rehabilitation medicine. He is scientific and medical advisor on the EU FP-7 funded NILVAD project, an investigator-led international randomised controlled trial investigating the potential efficacy of the antihypertensive nilvadipine when used to treat AD. He was co-principle investigator on the recent first Irish National Audit of Dementia (INAD) care in acute hospitals. He is a member of the clinical and research advisory panel for the Alzheimer’s Society of Ireland. He is a regional specialty advisor for internal and acute medicine in the Royal College of Physicians in Ireland. He is honorary secretary of the Irish society of physicians in geriatric medicine (ISPGM). He is an executive member of the Irish delirium society and the Irish society for acute and internal medicine. He is current geriatrician lead for educational workshops and online training support in delirium and dementia in the Royal College of Physicians of Ireland.

Current Research Projects
Current Research Projects include dementia-friendly hospital design (HRB), neurocardiovascular instability and mood disorders, and strategies which support early identification of predictors of decline for acutely admitted older patients.

Keywords
Ageing, Neuroscience, Health service
Dr Fiona Larkan
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Professional Background
Fiona Larkan is Assistant Professor at the Centre for Global Health, where she is Course Director of the MSc Global Health. She holds a PhD in Anthropology from Maynooth University and has worked as a Medical Anthropologist (Maynooth University) in Ireland and South Africa for many years. Dr Larkan is the chairperson of the Anthropological Association of Ireland (AAI), the founder of the Irish Medical Anthropology Network (IMAN) and the Irish delegate to the World Council of Anthropological Associations (WCAA).

Research Interests
Social and cultural aspects of HIV (diagnosis and treatment); sexuality, risk, chronic illness, including ME/CFS; social epidemiology; treatment pathways; sub-Saharan Africa; provision of health to ‘hidden’ populations.

Current Research Projects
Most recently a three year ethnographic project on Barriers to Adherence on Antiretroviral Treatment in South Africa’s Western Cape Province (funded through a Global Health Research Award (GHRA) with Irish Aid and the Health Research Board). Clear patterns of adherence were found to exist, each of which emanates from a complex intertwining of social political, economic, social-cultural, gender and biological factors.

Keywords
Global Health, HIV, Chronic Illness, Medical Anthropology, Strengthening Health Systems

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Professional Background
I run a translational medicine research programme (www.thkc.ie) focused on investigation of pathogenesis and discovery of biomarkers of disease in glomerulonephritis.

Research Interests
My principal research interest is in ANCA vasculitis, an autoimmune condition that causes multi-organ failure as a consequence of overwhelming necrotising inflammation affecting small blood vessels. We are addressing the following questions:

1. What biomarkers accurately track glomerular and extra-renal inflammation in ANCA associated vasculitis?
2. What molecular and cellular events prevent resolution of vasculitic injury after the initial insult?
3. What underpins the large variability in clinical phenotype observed in ANCA associated vasculitis?
4. How can we minimise the adverse events associated with existing immunosuppressive therapies? To assist in answering these questions, we have set up infrastructure that allows collection of longitudinal clinical data in the form of a national registry and biobank, which is linked to a basic science laboratory.

Keywords
Kidney, Vasculitis, Inflammation, Biomarker, Animal model, ANCA, Biobank, Registry
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Professional Background
Dr Niamh Lynam-Lennon is a senior postdoctoral researcher in the Dept. of Surgery, where she works in the area of chemoradiation therapy resistance in oesophageal cancer. She received her BSc in Analytical Science from Dublin City University and received her PhD in Translational Cancer Research from Trinity College Dublin in 2011. I was awarded a 2 year Government of Ireland Postdoctoral Fellowship by the Irish Research Council starting in October 2015.

Research Interests
Dr Lynam-Lennon's research interests are focused on two main areas; prediction of response to therapy and identification of novel treatment strategies to enhance the tumour response to therapy, with the ultimate goal of improving treatment and survival for patients. Her research spans several topical areas including miRNA and gene expression profiling, altered mitochondrial function and energy metabolism and cancer stem-like cells in treatment resistance.

Current Research Projects
We are developing and validating a novel molecular marker test predicting response to neoadjuvant chemoradiation therapy in oesophageal adenocarcinoma patients in collaboration with Prof. Martin Tenniswood at the University at Albany, New York.

We are investigating the role of cancer stem cells in the radioresistance of oesophageal adenocarcinoma. This project utilises both in vitro and in vivo models of treatment resistance and has identified multiple molecular pathway and microRNA networks regulating radioresistance in oesophageal cancer stem cells.

Keywords
Oesophageal cancer, radioresistance, chemoresistance, microRNA, predictive biomarkers, DNA repair, cancer stem cell biology, energy metabolism.

Professor Marina Lynch
Professor
School of Medicine

Professional Background
Marina Lynch is Professor of Cellular Neuroscience and is a member of the Physiology Department and based in Trinity College Institute of Neuroscience. She has a PhD from TCD and was appointed as a Lecturer in Physiology in 1992. She was elected to Fellowship in 1997, promoted to a personal chair in 2006 and elected as a member to the Royal Irish Academy in 2009.

Research Interests
Age-related changes in brain; Alzheimer’s disease; neuroinflammation; neuroimmunology; microglial function; MRI; cognitive function. Biomarkers in Alzheimer’s disease (collaboration with Profs RoseAnne Kenny and Brian Lawlor) and early cognitive changes (collaboration with Prof Ian Robertson).

Current Research Projects
1. We are investigating the inflammatory changes that occur with age and, as the primary immune cells in the brain, the focus of this study is on evaluating microglia.
2. The evidence indicates that synaptic plasticity and, therefore, cognitive function is impaired in circumstances in which microglia adopt an inflammatory activation state, for example in aged animals. We are currently investigating the possibility that strategies which alter this microglial phenotype will have a positive impact on neuronal function. Since the evidence indicates a key role for interferon-γ, we are assessing the impact of inhibiting JAK2 which is activated downstream of activation of its receptor.
3. Infiltration of immune cells into the brain occurs with age and is particularly evident in a transgenic mouse model of Alzheimer’s disease. The effect of interferon-γ-producing macrophages, Th cells and natural killer cells on microglial and astrocytic function is being assessed.
4. We are assessing whether a small molecule inhibitor of the NLRP3 inflammasome impacts on changes that develop with age in a transgenic mouse model of Alzheimer’s disease.
5. The possibility that accumulation of amyloid-β is the key event in driving the changes that accompany the development of Alzheimer’s disease. We are investigating the possibility that delivery of an anti-TLR2 antibody inhibits the changes that occur with age in a transgenic mouse model of the disease.
6. We are assessing the reproducibility of a potential blood-based marker of poor cognitive function, specifically in the context of mild cognitive impairment and Alzheimer’s disease. This project represents a small nested study within The Irish Longitudinal study on Ageing (TILDA).
Dr Joanne Lysaght
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Professional Background
Joanne Lysaght is Assistant Professor in the Department of Surgery and leads the Tumour Immunology Group. She has a B.Sc. (Hons) in Science from N.U.I. Maynooth and a PhD in Tumour Immunology from the University of Dublin, Trinity College.

Research Interests
Tumour immunology; adaptive immunity; lymphocytes; immunomodulation; cancer immunotherapies; immune checkpoint inhibitors; combination of conventional therapies and immunotherapies for cancer; pre-malignant conditions; chemokines and lymphocyte trafficking; tumourigenic inflammation; obesity; metabolic syndrome; non-alcoholic fatty liver disease; cachexia; novel targeted delivery systems; nanoparticles; gastrointestinal tract cancers; translational research; clinical and industry collaborations; clinical trials.

Current Research Projects
1. We are currently examining the impact of obesity and inflammation on anti-tumour immune responses.
2. We are examining inflammatory lymphocyte populations within the liver of cancer patients in order to determine their role in systemic inflammation and to identify future immunotherapeutic targets.
3. Oesophageal adenocarcinoma develops along a well defined sequence from gastro-oesophageal reflux disease to Barrett’s oesophagus and then to cancer. T cells have a key role to play in this inflammatory driven process and we are aiming to identify a number of potential therapeutic targets in order to slow or halt disease progression.
4. We are particular interested in the role of T cell trafficking in upper GI cancer and we are assessing the role of chemokines and their receptors in pathological inflammation and aiming to identify new therapeutic targets in both the pre-malignant and malignant setting.

Keywords
Tumour Immunology, Cancer, Obesity, T cells, Inflammation, Cancer Immunotherapy

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Professional Background
Lecturer in the Discipline of Occupational Therapy, with a focus on the integration of Disability Studies and the practice of occupational therapy in promoting engagement in meaningful life by those with disabilities and of social disadvantage. Involvement of undergraduate and postgraduate students in evidence informed practice has contributed the scholarship of practice.

Research Interests
Through partnership with service providers, with individuals and disability groups new ways of applying knowledge have been developed resulting in policy changes in education, national arts and museum services and in day to day life for people with disabilities. Projects have been funded by EU Horizon, HSE, Citizens Information Board, and voluntary disability service agencies.

Current Research Projects
Current research with the Dept. of Education’s National Behaviour Support Service and 74 partner schools nationwide is enabling better participation in school by those with social emotional and behavioural difficulties in areas of social disadvantage.

Keywords
Inter-professional Collaboration; Disability Studies; Social Emotional and Behavioural Difficulties; Inclusive Society; Client Centred Practice.
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**Professional Background**
Laure Marignol received a double BSc from the University of Montpellier (France) and the Fachhochschule Giessen (Germany), an Msc from University College London, and a PhD from Trinity. She is an assistant professor in the Discipline of Radiation Therapy, and a principal investigator at the Institute of Molecular Medicine. The recipient of an Irish Cancer Society research grant, she has published over thirty articles in peer-reviewed journals. Her research focuses on preventing disease progression following radiation therapy in prostate cancer patients.

**Research Interests**
Bi-directional translational cancer research; radiation oncology; prognostic/predictive biomarkers; novel therapeutic targets; clinical and industry collaborations; prostate cancer; stem cells; hypoxia; microarrays; mRNAs; microRNAs (miRNAs); predictive algorithm; patient decision making

**Current Research Projects**
Principal investigator on a project, supported by the Irish Cancer Society €290k (2012-2015), aiming to evaluate the prognostic potential of miRNAs in high risk radiotherapy prostate cancer patients.

**Keywords**
Radiotherapy, biomarker, treatment resistance, prostate cancer, hypoxia, miRNA

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Dr Cara Martin  
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**Professional Background**
Cara Martin is an Assistant Professor in Molecular Pathology and Tumour Biology the Department of Histopathology at Trinity College Dublin based at the Coombe Women and Infants University Hospital. She leads the Cervical Cancer Research Group based in the Coombe Women and Infant's University Hospital. Her research programme consists of translational health services based research and some basic research approaches in female gynecological cancers. She is co-founder, lead investigator and programme manager of CERVIVA, The Irish Cervical Screening Research Consortium, which is a health services based research programme aimed at supporting CervicalCheck, the National Cervical Screening Programme. She is PI/co-ordinator on a number of European FP7 funded projects in the area of cervical cancer screening and diagnostics, including SYSTEMCERV, AUTOCAST, MicroActive.

**Current Research Projects**
Title: CERVIVA: From episodic care to disease prevention and management: Developing analytical skills and interdisciplinary learning from the case of HPV related cancers.  
Title: CERVIVA 2: building capacity and advancing research and patient care in cervical screening and other HPV associated diseases in Ireland.  
Title: Systems biology approaches to cervical pre-cancer and cancer SYSTEMCERV [Co-ordinator]  
Title: CERVIVA 2: building capacity and advancing research and patient care in cervical screening in Ireland.  

**Keywords**
Cervical cancer, pre-cancer, gynaecological cancers, Human Papillomavirus, Biomarkers, New technologies
Dr Paul McElwaine
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Professional Background
Paul McElwaine is the stroke research fellow for the national stroke programme. He is a graduate of UCD medical school and recently obtained his CSCST in geriatric medicine and GIM. He is currently undertaking a MD with TCD.

Research Interests
Stroke medicine, gerontology, internal medicine, medical training and education

Current Research Projects
1. Coordinating the National Stroke Audit 2015 with a view to publication of a national report which will inform service provision and development in the future, in particular looking at thrombolysis delivery nationally. This will form the basis of his MD.
2. Supervision of second year medical student projects since 2013 with a view to presentation at international meetings and publication in peer reviewed journal. Most recent project accepted as poster presentation in Autumn British Geriatric Society meeting October 2015.
3. Development of report looking at noncore tasks carried out by NCHDs in Irish hospitals and how revision of procedures may impact doctor retention

Keywords
Stroke, Audit, Thrombolysis

Dr Christine McGarrigle
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Professional Background
Christine McGarrigle is an epidemiologist and Research Director at The Irish Longitudinal Study on Ageing (TILDA). She has a B.Sc. in Chemistry from UCD and a M.Sc. and PhD in epidemiology from the London School of Hygiene and Tropical Medicine, University of London.

Research Interests
Ageing, epidemiology, neurocardiovascular instability, dementia, cognition, social engagement, intergenerational transfers, depression.

Current Research Projects
The Irish Longitudinal Study on Ageing (TILDA) is a large-scale, nationally representative, longitudinal study on ageing in Ireland. TILDA collects information on all aspects of health, economic and social circumstances from people aged 50 and over in a series of data collection waves once every two years. TILDA is unique amongst longitudinal studies in the breadth of physical, mental health and cognitive measures collected. This data, together with the extensive social and economic data, makes TILDA one of the most comprehensive research studies of its kind both in Europe and internationally. I am the Research Director of the project, which covers a number of research themes including biomarkers, biomedical engineering, economics, frailty and resilience, gait and balance, neuro-cognitive, neurocardiovascular instability, social and vision. TILDA funding to-date is €33m, with additional grant money of €5m

Keywords
Ageing
**Dr Anne Molloy**  
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**Professional Background**  
Anne Molloy is Associate Professor in the Department of Clinical Medicine, School of Medicine and Fellow of Trinity College. She graduated from UCD with a B.Sc in Biochemistry and obtained her Ph.D from TCD.

**Research Interests**  
Dr Molloy’s research is focused on the molecular, nutritional and genomic factors that influence folate, vitamin B12 and related micronutrient function, with particular interest in the role of folic acid in prevention of neural tube defects and in methodologies and diagnostic criteria for assessing folate and vitamin B12 status in clinical and population settings. She has over 120 peer reviewed original publications plus 22 review articles and 8 book chapters. She has served as expert advisor for the World Health Organization, the US Office of Dietary Supplements, the UK Food Standards Agency and the Food Safety Authority of Ireland. She is a member of the global expert panel for the International Federation of Spina Bifida Associations.

**Keywords**  
Nutrigenomics; prevention of neural tube defects; micronutrients and healthy ageing; folate; vitamin B12

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**Ms Marie Morris**  
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**Professional Background**  
Marie Morris is a Clinical Skills Tutor (2006-present) and has been a Clinical Skills Course Coordinator (2009-2012) in the Education Division of the School of Medicine. She is currently a PhD student of the Department of Surgery, School of Medicine, has an MSc in Clinical Medicine from Trinity College Dublin, a B.Sc. (Hons) in Health Care Studies, Hatfield University (UK), a Diploma in Teaching and Assessing in Clinical Practice (UK) and is a Registered General Nurse (UK).

**Research Interests**  
Undergraduate medical education, assessment of competence in procedural and clinical skills, technical and non-technical skills assessment novel approaches to assessment, fMRI and motor skills assessment, reliability and validity of checklist and global rater assessment tools, patient safety.

**Current Research Projects**  
1. Under the supervision of Professor Paul Ridgway and in collaboration with Ms Amy Gillis, we are currently validating an alternative certification “ACE” examination for undergraduate clinical skills assessment. This project was awarded the Dean of Health Sciences Award for Innovation in 2015 with full funding for the next stage of the research.
2. We have collaborated with Prof Frodl and the staff at the HRB CAMI Centre in St James’s Hospital to investigate the feasibility of utilising fMRI to measure degrees of proficiency in basic surgical skills.
3. We are just finishing a project expanding this study to include more advanced surgical skills and complex surgical techniques. We are currently finalising a paper for publication.

**Keywords**  
Undergraduate Medical Education, Clinical Skills, Procedural Skills, Assessment, Competence, Patient Safety.
Mr Bahman Nasseroleslami
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Professional Background
Bahman Nasseroleslami is a Research Fellow in Academic Unit of Neurology. His background is in (Bio)Mechanical Engineering. He received a Scottish Funding Council scholarship to get his PhD in Biomedical Engineering from University of Strathclyde, Glasgow. He was with Northeastern University in Boston as a Postdoctoral Research Associate before joining Trinity.

Research Interests
Neural Control of Human Movement, EEG, EMG, Electrophysiological Correlates of Neuro-Motor Activity, Neural Engineering, Diagnostic Biomarkers in Amyotrophic Lateral Sclerosis (ALS), Computational Modelling of Motor Control and Learning.

Current Research Projects
1. Team member of the HRB-funded project to study the utility of EEG signal processing in diagnosis of ALS. This is a collaboration between Neurology (PI: Prof. Hardiman) and Bioengineering (Co-I: Dr Lalor) in Trinity.
2. IRC Postdoctoral Research Fellow Awardee to study the impairments of neuromuscular communication in EEG and EMG in ALS, in collaboration with PI’s in Trinity (Prof. Hardiman, Dr Lalor, Prof. Carson) and UCD (Dr Lowery).

Keywords
Neural Control of Human Movement, Human Motor Neurophysiology, Electroencephalography (EEG), Electromyography (EMG), Electrophysiological Correlates of Neuro-Motor Activity, Neural and Rehabilitation Engineering, Diagnostic Biomarkers in Neuromotor Dysfunction and Motor Neuron Disease (MND), Computational Modelling of Motor Control and Learning, Neuromuscular Biomechanics, Variability Structures in Motor Control and Learning

Cliona Ni Cheallaigh
Clinical Infectious Disease Translational Research (CITRe) Group
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Professional Background
Clíona Ní Cheallaigh is a specialist registrar in academic medicine specialising in Infectious Diseases. She was awarded a National SpR Academic Fellowship in 2009 from the HRB and the HSE. She completed a PhD in Trinity College Dublin in 2015 on immune responses to tuberculosis.

Research Interests
Inclusion Health, Delivery of excellent care to patients who have difficulty in engaging with current models of healthcare, ECHO model of care, HIV geo-mapping, super utiliser programme

Current Research Projects
Icorn-ECHO HCV Pilot
The ECHO model of care, developed in New Mexico, empowers health care practitioners in the community to treat patients with HCV who find hospital services difficult to access. The ICORN ECHO HCV Pilot will establish the feasibility of implementing the ECHO model in Ireland, and will identify drivers and barriers to the de-monopolisation of knowledge that is at the heart of the ECHO model.

HIV Geomapping
Explore spatial patterns of failure of retention in care and virological failure in HIV-infected individuals in Dublin, and to identify neighbourhood characteristics associated with these patterns.

Super-Utilisers Study
Super-utilisers are patients with very complex medical, behavioural and social needs. We will generate a comprehensive picture of super-utilisers, by creating a Health Information Exchange which will collect individual-level data on unscheduled healthcare use from two inner-city Dublin hospitals in real time.

Keywords
Social determinants of health
Dr Caoilfhionn Ni Leidhin
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Professional Background
Caoilfhionn Ni Leidhin is Lecturer/Registrar in Radiology with the School of Medicine at the Centre for Advanced Medical Imaging, St. James’s Hospital. She graduated from medicine in UCD in 2011. She worked as an intern in St. Vincent’s University Hospital before moving to New Zealand to train for 2 years. On returning to Ireland, she worked as a surgical SHO in SVUH, before securing her current post. She hopes to pursue radiology as her career.

Research Interests
During an elective in Penang Hospital, Caoilfhionn undertook research on REM Sleep Behaviour Disorder in patients with Parkinson’s disease, the results of which were published in the Medical Journal of Malaysia. Recently, she investigated the role of MRI in screen-detected invasive lobular breast carcinoma, the results of which she presented at national and international meetings earlier this year.

Current Research Projects
Caoilfhionn is currently developing an abdominopelvic imaging radiology application. She is also undertaking an MD with TCD.

Keywords
Radiology, imaging, application, education, teaching, abdomen, pelvis, Magnetic Resonance Imaging, Invasive Lobular Carcinoma, breast, REM Sleep Behaviour Disorder, Parkinson’s disease

Dr. Clodagh Nolan
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Professional Background
Clodagh Nolan is an Assist Professor at the Discipline of Occupational Therapy. She has a Diploma in Occupational Therapy from the College of Occupational Therapists in London, a M.Sc. and a PhD from the University of Dublin. She is the founder and director of the Unilink Service, an occupational therapy service for students with disabilities in higher education. She has presented at numerous national and international conferences. She is part of an international group on developing inclusive campus for students with disabilities.

Research Interests

Current Research Projects
1. Genio Project – We are currently working on developing supports for students with disabilities as they transition into employment.
2. An Occupation based self-management programme for students with disabilities in higher education.
3. International Collaboration for Inclusive Campus (ICC) – This international project brings together individuals from occupational therapy, education and sociology to examine issues in relation to enabling a more inclusive campus and to share ideas on supporting students with disabilities as they transition from health and social care professional courses.
4. Unilink Service – This project investigates issues in relation to supports for students with disabilities as they transition into through and out of college, through the occupational therapy lens of person, environment and occupation.
5. An investigation into the issues for enabling self-management of medication through assistive technology. This project aims to explore the views of people with schizophrenia their relatives and clinicians regarding the use of assertive technology for self-management of prescribed medication.

Keywords
Inclusive society, Disability, Mental Health, Occupational Therapy, Occupation.
**Professor Charles Normand**  
Edward Kennedy Professor of Health Policy and Management  
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**Professional Background**  
Charles Normand is Edward Kennedy Professor of Health Policy and Management at Trinity College Dublin. He is vice-Chairman of the Board of St James’s Hospital and is Chair of the WHO European Observatory on Health Systems and Policy. He trained as an economist, and has worked for 25 years on the economics of health and health care.

**Research Interests**  
Professor Normand has a particular interest in understanding the ways in which ageing impacts on use of health and social care, and on financing of services for older people. His research is mainly on health care finance, economic evaluation in cancer prevention and treatment, equity and access to services, management of chronic diseases, screening policies and end of life care. He is a co-author of a leading textbook on health economics and the WHO guidebook on social health insurance.

**Current research projects**  
TILDA, CERVIVA, IARE (International Access, Rights and Empowerment study), AIHPC SRN, RCQPS award - What are the clinical effectiveness and cost effectiveness of different models of community specialist palliative care (CSPC) provision in Ireland?

**Keywords**  
Ageing, Cancer

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**Dr Lucy Norris**  
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**Professional Background**  
Lucy Norris is a Senior Scientist in the Dept of Obstetrics and Gynaecology, Trinity College Dublin. She has a BSc in Biochemistry and a PhD both from TCD. She has over 25 years’ experience in the area of haemostasis and thrombosis research and has published extensively on topics including the pathogenesis of thrombosis in hormone users and in obese pregnant women and more recently on the pathogenesis of venous thrombosis in gynaecological cancers. Current research includes the prediction of venous thrombosis in gynaecological cancer patients funded by the HRB, the role of coagulation proteases in ovarian cancer. She has over 50 peer reviewed publications and is a member of the editorial board for the journal ‘Thrombosis Research’.

**Keywords**  
Thrombosis cancer haemostasis gynaecology pregnancy
Dr Sarah O’Connell
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Professional Background
Dr Sarah O’Connell is a clinical research fellow and MD candidate with Trinity College Dublin. She obtained a medical degree (MB Bch BAO) at University College Cork in 2007 and is now in her final year of the Higher Specialist Training scheme in Infectious Diseases with the Royal College of Physicians of Ireland.

Research Interests
HIV, hepatitis B and C screening. Expanded screening programmes in non-traditional settings to assess feasibility and acceptability of these approaches. Definition and study of seroprevalence of HIV, hepatitis B and C viral infection in areas of different prevalence and demographics. Methodologies of blood-borne virus screening. Application of results to inform screening for blood-borne viruses in targeted and non-targeted settings.

As part of the NaTIVe (National viral Testing InitiatiVe) project, our research aims to define the seroprevalence of blood-borne viruses through universal screening and to identify the demographics of cases in differing acute health care settings.

Current Research Projects
1. Dr O’Connell was lead co-investigator of the St James’s Hospital Emergency Medicine Department Blood-Borne Viral (ED BBVi) screening study where 10,000 patients were screened for HIV, Hepatitis B and Hepatitis C viral infection. She is now the co-ordinator of this testing strategy that has been implemented as routine care at St James’s Hospital Emergency Medicine Department.
2. A retrospective cohort study was undertaken during the ED BBVi study, where demographics of those patients with known hepatitis C infection associated with various linkage patterns were examined to identify predictors of hepatitis C linkage to care.
3. A cross sectional study will soon begin where patients from a migrant population will be tested for all three viruses in primary care settings.
4. An Emergency Department Viral Screening Project will now be developed in a rural Emergency Department setting.

Keywords
HIV, Hepatitis B, Hepatitis C, testing, screening, prevalence, emergency department

Professor Cliona O’Farrelly
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Professional Background
Cliona O’Farrelly is a Professor of Comparative Immunology and Fellow of Trinity College Dublin. A recipient of the Irish Research Scientist’s Association Gold Medal, the Graves Medal, the Conway Medal, the Isla Haliday Award, Cliona was recently awarded the 2014 Nature Mentoring Award. Having been president of the Irish Society of Immunology from 2000-2007 and on the Board of the Irish Cancer Society from 2006-2012, Cliona currently serves on the Boards of the Royal Dublin Society, Trinity College Dublin and TCD’s Science Gallery.

Research Interests
Liver Immunology; Liver Metastasis; Hepatitis C; Reproductive Immunology; Human Uterine Immunity; Bovine Fertility; Comparative Immunology; Anti-Microbial Peptides; Defensins; Innate Immune Gene Discovery

Current Research Projects
1. The liver is an immunologically ‘tolerant’ organ equipped with powerful immunoregulatory mechanisms to control immune activity against harmless dietary and commensal antigens from the gut while remaining poised to respond to infection or malignancy. Through collaborations with the National Liver Transplant Centre at St. Vincent's University Hospital, we are exploring these mechanisms in the context of transplantation, hepatitis C and cancer.
2. The liver is the site of infection for a number of important human pathogens – including hepatitis C virus (HCV). We are interested in why some people are more susceptible to chronic HCV infection than others. To investigate mechanisms of viral resistance we are studying Irish women who received HCV via contaminated anti-D immunoglobulin.
3. While anti-microbial peptides were originally recognised for their important role in killing bacteria, recent observations have suggested they have another important role in reproduction. Some of these peptides are exclusively expressed in the reproductive organs and enhance fertility by promoting sperm mobility. In collaboration with Dr Kieran Meade at Teagasc, our research is exploring the role of bovine anti-microbial peptides in promoting bovine fertility.

Keywords
Comparative Immunology, Liver, Reproduction, HCV, Innate Immunity, Defensins, Hepatic Lymphocyte Development
**Professor Desmond (Des) O’Neill**  
**Professor in Medical Gerontology**  
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**Professional Background**  
Professor O’Neill is a geriatrician at Tallaght Hospital/TCD, and Director of the Irish National Office for Traffic Medicine.

**Research Interests**  
Professor O’Neill’s research is rooted in gerontology and the neurosciences, with strong emphasis on the humanities, and over 300 peer-reviewed publications. First Medical Director of the Alzheimer Society of Ireland; founder-Chair, Council on Stroke of Irish Heart Foundation; co-PI on first Irish longitudinal study on ageing (HESSOP-2); co-PI on Irish National Audits of Stroke and Dementia Care; founder-editor of first Irish gerontology journal ‘Irish Ageing Studies Review’; chair of Irish government Working Group on Elder Abuse; co-founder National Centre for Arts and Health; member of team that developed the European Masters in Gerontology; and founder member and subsequent president of European Union Geriatric Medicine Society.

**Current Research Projects**  
Current Research Projects include dementia-friendly hospital design (HRB), communication in dementia (HRB), driving and dementia (CIHR), and curatorship in arts and health (Meath Foundation)

**Keywords**  
Ageing, Neuroscience, Medical Humanities

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**Dr Neil O’Leary**  
**Research**  
**School of Medicine**  
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**Professional Background**  
Neil O’Leary is a statistician and postdoctoral research fellow for The Irish Longitudinal Study on Ageing (TILDA). He has a BSc in Applied Mathematics and Physics from NUI Galway, a PhD in Optics and Vision Science from City University London and an MSc in Biostatistics from the University of Manchester.

**Research Interests**  
Statistical methodology; longitudinal/multilevel data analysis; missing data analysis; epidemiology; clinical trials; study design; diagnostic technologies; vision

**Current Research Projects**  
TILDA is a major inter-institutional initiative led by Trinity College Dublin. The study involves interviews on a two yearly basis with a sample of 8,000+ people aged 50 and over (or their spouses/partners) of their lives, including the economic (pensions, employment, living standards), health (physical, mental, service needs and usage) and social aspects (contact with friends and kin, formal and informal care, social participation). I provide statistical support and guidance on a wide range of research projects within TILDA. I am also lead of the vision working group for TILDA, examining the rates, correlates and consequences of ocular pathologies in the older Irish population.
Noreen O’Shea  
Clinical Tutor, Discipline of Physiotherapy  
School of Medicine  
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**Professional Background**
- 1990 Graduated from TCD as physiotherapist.
- Early years working in Dallas, Texas, Dublin and Riyadh, Saudi Arabia in large teaching hospitals.
- 1995 Graduated from the full time MBA in Michael Smurfit School of Business in UCD.
- 1996 Appointed Head Physiotherapist in Blackrock Clinic.
- 1999 Appointed head physiotherapist in St James’s Hospital.
- 2008 Became ski/hiking bum for a year in the French Alps.
- 2011 Changed role to Clinical Tutor at St. James’s Hospital.

**Research Interests**
Clinical Education

**Current Research Projects**
- Do students slow clinicians down?
- Why do clinicians opt in or out of clinical teaching?
- How to optimise clinical teaching in the hospital environment.

**Keywords**
Clinical Education Student supervision

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Dr. Jacintha O’Sullivan  
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**Professional Background**
Jacintha O’Sullivan is an Associate Professor in the Department of Surgery, School of Medicine. She has a first class honours BSc. degree in Cell Biology & Molecular Genetics and a Ph.D. in cancer biology, both from the University College Dublin. As an NIH funded postdoctoral fellow, she began her translational biology interests in the field of gastrointestinal inflammatory diseases and cancer. In 2003, she returned to Ireland to establish a translational gastrointestinal research program at St. Vincent’s Hospital/UCD and in 2010 was appointed Associate Professor in TCD.

**Research Interests**

**Current Research Projects**
1. Understanding how mitochondrial biology and energy metabolism profiles drive tumour growth, progression and importantly regulate treatment response in gastrointestinal inflammatory diseases and gastrointestinal cancers (Oesophageal and colorectal). In addition, how obesity influences mitochondrial biology and other cellular and genomic instability events is also investigated.
2. Development of a biomarker signature platform to segregate responders and non-responders to neo-adjuvant chemoradiation therapy through linking with the Neo-AEGIS; ICORG 10-14
3. Irish led phase III open-labelled, randomised controlled trial (RCT) with Prof. John Reynolds and in collaboration with miR diagnostics (University of Albany, New York).
4. Drug screening studies using in vivo and ex vivo models to identify potent dual action drugs which target metabolism and angiogenesis to boost response to cancer treatment. Elucidation of mechanism of action of our novel patented drugs.
5. Understand how the biological mechanisms in the tumour microenvironment can cross talk to the immune cells in gastrointestinal tumours to regulate disease progression and treatment response.

**Keywords**
Translational Gastrointestinal. Cancer, inflammatory gastrointestinal diseases, energy metabolism, mitochondrial biology, cellular instability, drug screening, biomarkers of treatment response
Dr Mary O’Sullivan
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Professional Background
Mary O’Sullivan is an Associate Research Lecturer in Clinical Medicine. She has a BSc from UCD and an MSc and PhD from the University of Dublin. She joined the TB Immunology research group in the Institute of Molecular Medicine in 2003.

Research Interests
We study the response of macrophages and primary dendritic cell subsets to infection with Mycobacterium tuberculosis. We are characterising the contributions of different effector mechanisms, including cell death, autophagy and metabolic reprogramming, to protective immune responses to TB to inform rational vaccine design. Additionally, in collaboration with Professor Sally-Ann Cryan in RCSI, we are evaluating the efficacy of inhalable biodegradable microparticles loaded with chemotherapeutic agents for the treatment of pulmonary TB.

Current Research Projects
1. Defining the role of human dendritic cell subsets in host immune responses to mycobacterial infection (HRB HRA, PI).
2. Development of inhaled anti-tubercular therapies using immune-stimulating microparticles (ISMs). (HRB-HRA, Co-Applicant) PI: Prof. Sally-Ann Cryan, School of Pharmacy, RCSI.
3. Particle engineering to target alveolar macrophages for the adjunct treatment of multi-drug resistant tuberculosis (HRB-HRA, Co-Applicant) PI: Prof. Sally-Ann Cryan, School of Pharmacy, RCSI.
4. Role of inflammatory dendritic cells in immune responses to mycobacteria (PhD Scholarship Award, PI).

Keywords
Dendritic cell, macrophage, Innate immunity, apoptosis, autophagy, tuberculosis, pulmonary drug delivery

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Professional Background
Sharon O’Toole is a senior research fellow between the departments of obstetrics and gynaecology and histopathology. She has a BSc and MSc from University College Galway and a PhD from Trinity College Dublin.

She has been instrumental in establishing INNOVATION- the Irish National Network for Ovarian Cancer Collaboration which has brought together the medical, research and charity organisations involved in ovarian cancer in Ireland.

Research Interests
Her research interests centre around diagnostic and prognostic biomarkers and understanding the fundamental biology of the metastatic cascade and circulating tumour cells. She has been successful in identifying diagnostic and prognostic biomarkers for ovarian cancer and her ultimate aim is to translate these into the clinic. She has presented at both national and international conferences and published in peer-reviewed journals. She works closely with the 3 ovarian cancer charities in Ireland whose mission is to improve outcomes for ovarian cancer in Ireland.

Keywords
Ovarian cancer, biomarkers, translational, diagnostic, prognostic, endometrial cancer
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Professional Background
Roger Preston is Assistant Professor in Immunology in the School of Medicine. He joined the School of Medicine as an HRB Research Fellow in 2006 and received a prestigious SFI SIRG award in 2009. He is the recipient of early-career investigator awards from Novo Nordisk (2010) and Bayer Healthcare (2013). He was appointed Assistant Professor in Immunology in 2012 and currently forms part of the Paediatric Research in Translational Immunology programme at the National Children’s Research Centre at Our Lady’s Children’s Hospital Crumlin (OLCHC).

Research Interests
Vascular health, haematology, protein engineering, inflammation, biopharmaceuticals, precision medicine, ischemic stroke, sepsis.

Current Research Projects
2. Evaluating the role of distinct protein C glycoforms in paediatric sepsis, in collaboration with clinical investigators at OLCHC.
3. Designing new haemostatic agents for the treatment of haemophilia, supported by Bayer Healthcare Pharmaceuticals.

Keywords
Vascular health, haematology, protein engineering, precision medicine, cell signalling

Dr Adriele Prina-Mello
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Professional Background
Adriele PRINA-MELLO, PhD, MSc. Senior Research Fellow in Nanomedicine, School of Medicine (TCD), AMBER and CRANN Principal Investigator (TCD), and Lecturer in Nanomedicine for MSc in Molecular Medicine, Translational Oncology, Bioengineering and Pharmaceutical Nanotechnology.

Research Interests
Dr Adriele Prina-Mello’s research interests are focused on the translation of nanotechnology-tools, nanomaterials, their multifunctional solutions, devices and instrumentation applications into the medical research area as Nanomedicine tools for next generation medical practise.

Current Research Projects
1. Principle investigator, in the ambition infrastructure project, where TCD is one of six lead research centres in Europe, for the development of the European Nanomedicine Characterisation Laboratory (EU-NCL; 2015-2019).
2. National coordinator and PI for EC Flagship project NANOREG (FP7-2012-2016). The project is focused in delivering a regulatory platform and framework for the approval of nanotechnology-based consumer products into the market.
3. TCD Co-PI in the high profile EU FP7 project on next generation medical devices AMCARE (2013-2017). The project is to develop advanced multimodal regenerative therapies that effectively treat damage caused by acute myocardial infarction.
4. Dissemination work package leader of FP7 Large Scale Nanotechnology project (MULTIFUN project, EU FP7 Large NMP -2011-2015).
5. Deputy Coordinator of NAMDIATREAM project (EU FP7 Large NMP; 2010-2014). The project has been recently awarded the BEST PROJECT funded by the European Commission (EuroNanoForum2015, Latvia Riga) out of more than 1000 EC funded projects. The project is focused towards the development of new diagnostic devices based on nanotechnological tools.

Keywords
Nanomedicine, Translational Research, Nanodiagnostics, Theranostics and Personalised Medicine, Regenerative Medicine, Nanocharacterisation, and Health, Safety and Regulatory aspect for product translation and development.
Dr Mary O’Sullivan  
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**Professional Background**  
Mary O’Sullivan is an Associate Research Lecturer in Clinical Medicine. She has a BSc from UCD and an MSc and PhD from the University of Dublin. She joined the TB Immunology research group in the Institute of Molecular Medicine in 2003.

**Research Interests**  
We study the response of macrophages and primary dendritic cell subsets to infection with Mycobacterium tuberculosis. We are characterising the contributions of different effector mechanisms, including cell death, autophagy and metabolic reprogramming, to protective immune responses to TB to inform rational vaccine design. Additionally, in collaboration with Professor Sally-Ann Cryan in RCSI, we are evaluating the efficacy of inhalable biodegradable microparticles loaded with chemotherapeutic agents for the treatment of pulmonary TB.

**Current Research Projects**  
1. Defining the role of human dendritic cell subsets in host immune responses to mycobacterial infection (HRB-HRA, PI).
2. Development of inhaled anti-tubercular therapies using immune-stimulating microparticles (ISMs). (HRB-HRA, Co-Applicant) PI: Prof. Sally-Ann Cryan, School of Pharmacy, RCSI.
3. Particle engineering to target alveolar macrophages for the adjunct treatment of multi-drug resistant tuberculosis (HRB-HRA, Co-Applicant) PI: Prof. Sally-Ann Cryan, School of Pharmacy, RCSI.
4. Role of inflammatory dendritic cells in immune responses to mycobacteria (PhD Scholarship Award, PI).

**Keywords**  
Dendritic cell, macrophage, Innate immunity, apoptosis, autophagy, tuberculosis, pulmonary drug delivery

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Professor Richard Reilly  
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**Professional Background**  
Richard Reilly is Professor of Neural Engineering. He has a B.E. in Electronic Engineering, an M.Eng.Sc in Biomedical Engineering and a PhD in Biomedical Signal Processing, all University College Dublin.

**Research Interests**  
Neural signal processing methods; patient-oriented neurodiagnostics methods; neural prosthetics; neuromodulation devices. Research targeted at better understanding of the pathophysiology of sensory and cognitive processing.

**Current Research Projects**  
1. Investigating cervical dystonia as a disorder of the midbrain network for attentional orienting within the superior colliculus. This study is with Prof. Michael Hutchinson at St Vincent’s University Hospital.
2. Developing objective measures for spectral, temporal and spatial processing capabilities in unilateral and bilateral Cochlear Implants users. These studies are with Prof. Laura Viani at Beaumont Hospital.
3. Developing acoustic based objective measures of medical adherence to inhaler medication and predictive models for longterm respiratory health. These studies are with Prof. Richard Costello at Beaumont Hospital.
4. Developing ecologically valid objective methods to assess cognitive function through gait (with Prof. RoseAnne Kenny) and speech characteristics (Prof. Brian Lawlor at James’s Hospital).
5. Examining neural connectivity in Autism Spectrum Disorder and FragileX as related to behavioural characteristics associated with these disorders. This study is with Prof. Louise Gallagher at St James’s Hospital.

**Keywords**  
Bioengineering, Biomedical Engineering, Neural Engineering, Biomedical signal processing, Electrophysiology, Computational Neuroscience;
Mr Paul F Ridgway
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Professional Background
Paul F Ridgway MD MMedSc FRCS (Gen Surg) is a Consultant HPB, Upper GI and General Surgeon and Associate Professor, Trinity College Dublin since 2009. He has completed a Master of Medical Science (Anatomy; Hons), National University of Ireland) and a Doctor of Medicine (MD, Imperial College, St Mary’s Campus London). Past supervision of basic science as well as clinical research projects for medical students to registrars. Previous supervision of 3 Fellows, 2 Registrars, 1 PGY5 (Post Graduate Year 5) and 2 PGY2s involved in separate clinical and education research projects. Current supervision of a PhD and MSc.

Research Interests
Oncology, undergraduate education, technical skills assessment, fMRI and motor skills, next generation medical devices.

Current Research Projects
1. Validation of an alternative certification examination "ACE" for undergraduate clinical skills assessment. This project won the Dean of Health Sciences Award for Innovation in 2015.
2. Feasibility of utilising fMRI to measure degrees of proficiency in basic and complex surgical skills.
3. The Ageing brain and its impact on surgical skills competence.
4. Standardisation of communication skills training for doctors in practice.
5. The MDT dynamic and impact on patient outcomes.

Keywords
Oncology, Surgery, Medical Education, Surgical Skills, Assessment, Competence, Patient Safety.

Professor Thomas Rogers
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Professional Background
Tom Rogers is Chair of Clinical Microbiology in Trinity College Dublin and Consultant Microbiologist at St. James’s Hospital. He trained as an undergraduate at RCSI Medical School and trained as a postgraduate in Microbiology in several London teaching hospitals. His previous appointment was as Professor of Clinical Microbiology in Imperial College and Hammersmith Hospital London. He is also Clinical Director of The Irish Mycobacteria Reference Laboratory at St James’s Hospital. He is immediate past President of the Healthcare Infection Society and of the Irish Fungal Society of which he was a founding member.

Research Interests
1. Developing and clinical evaluation of molecular diagnostics for invasive fungal infections
2. Application of next generation sequencing to enhance epidemiological investigation of tuberculosis and for more rapid TB diagnostics
3. Pathogenesis and hospital epidemiology of Clostridium difficile infection including intestinal microbiome studies
4. Investigation of multiple-antibiotic resistant bacteria causing nosocomial infections

Keywords
Fungal diagnostics; healthcare infections; tuberculosis; microbial genomics
Mr Padhraig Ryan
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Professional Background
Padhraig Ryan is a health economist in the Centre for Health Policy and Management, Trinity College Dublin. His research investigates areas such as incentive design, communication skills, and economic evaluation in health care. Padhraig was appointed as Economic Advisor to Ireland's National Pharmacy Reference Group, and was previously a Fulbright Scholar in Harvard Medical School. He served as a health insurance expert in the Central Bank of Ireland. Padhraig has trained in machine learning using R and Octave via Stanford University's open courses (Coursera). He earned his undergraduate degree in Pharmacy and a diploma in Statistics from Trinity College Dublin, and a Master's in Public Health from the University of London.

Keywords
Economics, health, communication, computational linguistics, natural language processing, machine learning, medical education

Dr Corinna Sadlier
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Professional Background
Dr Corinna Sadlier is an HRB Cochrane Training Fellow and Clinical Research Fellow with Trinity College Dublin. Dr Sadlier is currently completing her PhD thesis which examines vaccination as a means of disease prevention in HIV-infected individuals.

Research Interests
Vaccination; Immune response to vaccination; HPV infection; HPV vaccine; Pneumococcal Infection; Pneumococcal vaccine; HIV infection; Population health

Current Research Projects
1. HPV MAPS (HPV in Men who have sex with men, Awareness, Protection, Surveillance) – This research consortium brings together expert collaborators including academics and clinicians in the areas of immunology, virology, pathology and infectious disease. Research focuses include HPV vaccine acceptability and factors associated with HPV vaccine acceptability in MSM; the natural history of HPV infection, persistence and clearance in MSM and immunological response to HPV vaccine in HIV-infected MSM.
2. Dr Sadlier has led a Randomised Controlled Trial investigating immunological response to pneumococcal vaccine strategies in HIV-infected individuals.
3. Dr Sadlier is PI of a Cochrane review; Pneumococcal vaccine for the prevention of Streptococcus Pneumoniae Infection in HIV infected individuals.

Keywords
HPV, HPV vaccine, HIV, Pneumococcal Infection, Pneumococcal vaccine
Ms Eithne Sexton
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Professional Background
Eithne Sexton is a Research Fellow based in the Irish Longitudinal Study of Ageing (TILDA), working on the Healthy and Positive Ageing Initiative (HaPAI). She has a BA (Mod) in Psychology and Philosophy and an MSc in Applied Social Research, both from the University of Dublin, and a PhD in Health Services Research from the Royal College of Surgeons in Ireland.

Research Interests
Positive ageing; Quality of life and wellbeing in later life; measurement of wellbeing; determinants of wellbeing; resilience

Current Research Projects
1. The HaPAI National Indicator Project aims to develop a set of indicators to monitor positive ageing in older people in Ireland. Collaborators include Atlantic Philanthropies, Department of Health, Age Friendly Ireland and the Health Service Executive.
2. As part of HaPAI I am also working on the Age-Friendly Ireland positive ageing survey, which aims to collect local, county-specific data relevant to positive ageing.

Keywords
Ageing; wellbeing; quality of life; positive ageing; psychometrics; resilience; health services research

Dr Sinead Smith
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Professional Background
Sinead Smith is a joint Ussher Assistant Professor in Applied and Translation Medicine between the School of Medicine and School of Pharmacy and Pharmaceutical Sciences. She has a BSc in Cell Biology and Molecular Genetics from UCD and a PhD in Cell and Molecular Biology from DCU.

Research Interests
Infection; immunity; inflammation; cancer; bi-directional translational research; Helicobacter pylori; antibiotic resistance; clinical trials; targeted therapies; cell signalling; novel therapeutic targets; microarrays; proteomics; next generation sequencing; mRNAs; microRNAs; epigenetics.

Current Research Projects
We are currently assessing the prevalence of antibiotic resistance to the gastric pathogen H. pylori using microbiology and molecular biology based methods. We are investigating whether tailoring therapy based on antibiotic resistance improves treatment outcomes. This work is funded by the Meath Foundation and the Health Research Board.

Keywords
Helicobacter pylori, infection, immunity, inflammation, antibiotic resistance
Dr Stephen Smith  
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Professional Background
Stephen Smith is an Associate Professor in the Discipline of Clinical Microbiology. He has a B.A (mod) in Microbiology and a PhD, both from the University of Dublin. As a lead PI he has been funded by the HRB, SFI and Enterprise Ireland.

His research is in the area of molecular microbiology, particularly on how bacteria invade epithelial cells and how they survive in the bloodstream. He has published widely in Microbiology journals and many of these are key journals in this field. An author on a collaborative study that was published in the New England Journal of Medicine. This journal has the second highest impact factor of science and medicine publications, 51.68. Nine postgraduate students have graduated from TCD having undertaken research projects under his supervision.

Research Interests
Microbiology, Pathogenesis, Virulence, Genomics, Transcriptomics, Antimicrobial resistance, Bloodstream infection. Imaging of microbial interactions, Protein expression systems, Optimization of protein expression, Protein Bioinformatics,

Current Research Projects
1. High throughput analysis of bacterial interactions with human cells
2. Genomic analysis of pathogens at a DNA sequence level
3. Transcriptomic analysis of the bacterial interaction with the innate immune system
4. Pathogenesis of Pseudomonas and other pathogens in CF

Keywords
Microbiology, Pathogenesis, Virulence, Genomics, Transcriptomics, Antimicrobial resistance, Imaging of microbial interactions

Michelle Spirtos  
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Professional Background
Michelle Spirtos is an Assistant Professor in the Discipline of Occupational Therapy. She has a BSc in Occupational Therapy and a Research MSc, both from the University of Dublin, Trinity College. Michelle is currently a PhD candidate in the School of Social Work and Social Policy. Her study relates to the transition to adulthood for young adults with a physical disability. Michelle has been a lecturer in the Discipline of Occupational Therapy since 2003. She has published and presented nationally and internationally related to childhood participation, youth transition, upper limb function and evidence for therapeutic interventions.

Keywords
Transition to Adulthood, Youth Participation, Evidence for Interventions
Dr Tadhg Stapleton  
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Professional Background
Tadhg Stapleton is Assistant Professor in Occupational Therapy. He has a B.Sc. in Occupational Therapy (Trinity College Dublin), M.Sc. in Rehabilitation and Research (University of Southampton), and PhD (Trinity College Dublin). He was awarded a HRB Research Training Fellowship for Healthcare Professionals (2009-2012), and also a HRB Knowledge Exchange and Dissemination grant (KEDS) (2013-2014).

Research Interests
His research focus is in clinical based research using mixed methodology. His PhD focussed on the clinical decision making processes in determining fitness to drive after stroke. Ongoing research interest include: assessing fitness to drive among people with disabilities (particularly stroke and cognitive impairment), community mobility and participation, occupational impact of obesity, rehabilitation outcomes, occupational therapy.

Current Research projects
Examining the relationship between clinical assessments and fitness to drive for people with stroke and mild cognitive impairment.  
Follow-up study on current driving exposure and self perceived driving ability among people with stroke and mild cognitive impairment following successful assessment of fitness to drive.  
Supervising postgraduate research on the impact of memory strategy education for people with mild cognitive impairment, impact of caring for a person with prolonged disorder of consciousness on the care giver, occupational impact of obesity.

Keywords
Fitness to Drive, Rehabilitation, Participation, Obesity.

Dr Steve Thomas  
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Professional Background
Steve Thomas is an Associate Professor and Director of the Centre for Health Policy and Management. He has a BA (Hons) in Politics, Philosophy and Economics and an MSc in Development Economics from Oxford University and a PhD in Health Economics and Policy from University of Cape Town.

Research Interests

Current Research Projects
1. Principal Investigator - Mapping the Pathways to Universal Health Care (HRB, 3 years from Oct 2014)  
2. Principal Investigator – SPHERE programme (HRB, 7 years from 2013)  
4. Principal Investigator – Financial protection project (WHO funding, 1 year from 2015)

Keywords
Universal Health Care, Universal Health Insurance, Health Systems, Health Financing, Workforce Planning, Health Policy, Health Economics.
Mr Leonardo Tozzi
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Professional Background
Leonardo Tozzi is a Research Fellow in the Trinity College Institute of Neuroscience. He has an M.D from Pisa University and Sant'Anna School of Advanced Studies in Pisa (Italy). He currently holds the position of Early Stage Researcher (ESR) in the Marie Curie Initial Training Network r'BIRTH, that gathers experts on molecular mechanisms of neurodegeneration and depression.

Research Interests
Neuroimaging; psychiatry; mood disorders; Magnetic Resonance Imaging; genetics; epigenetics; inflammation.

Current Research Projects
My main field of interest is the study of brain function and anatomy in psychiatric disorders. My current focus is on mood disorders, particularly Major Depressive Disorder, seeking the neurobiological mechanisms underlying the disease to find markers for the prediction of its progression and of treatment response.

Keywords
Neuroimaging, psychiatry, MRI, DTI, fMRI, MRS

Professor Eileen Treacy
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Professional Background
Prof. Eileen Treacy is Clinical Professor in Inborn Errors of Metabolism at TCD and also Clinical Professor at University College, Dublin, currently a Consultant at Temple St Childrens University Hospital and Mater Misericordiae University Hospital (since 2001). She currently is the Clinical Lead for the HSE/RCPI National Rare Diseases Clinical Programme (since December 2013). Qualifications: MB, BCh, MD (TCD 2001), FRCP, FCCMG (Clinical Genetics).

Research Interests
Investigation and treatment of Rare Diseases, Inborn Errors of Metabolism (in particular Galactosaemia, diagnostic biomarkers, targeted therapies), Genetic Epidemiology

Current Research Projects

Keywords
Population Health, Rare Diseases, Genetic Epidemiology, Inborn Errors of Metabolism
**Professor Yuri Volkov**  
**Professor of Molecular and Translational Medicine**  
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**Professional Background**  
Yuri Volkov received his MD from the 1st Moscow Medical University and a PhD in biomedical sciences at the Institute of Immunology, Moscow. He is a Professor and Chair of Molecular and Translational Medicine at the School of Medicine. Prof. Volkov has recently coordinated a large scale EU FP-7 funded Consortium “NAMDIATREAM” awarded the best EU project prize at the EuroNanoForum-2015 (www.namdiatream.eu), which united the expertise of 22 European academic, research, clinical and industrial partners towards the development of nanotechnological toolkits for early diagnostics and treatment monitoring of major types of malignant diseases. He was also a Lead TCD partner for EU FP-7 LSP “MULTIFUN” and “Celtic Alliance for Nanoehealth” Ireland-Wales INTERREG Consortium.

**Research Interests**  
His research interests include nanomedicine and biomedical applications of nanotechnologies, molecular mechanisms of immune system functioning in health and disease, cancer diagnostics and innovative treatment approaches, advanced cell and molecular imaging.

**Current Research Projects**  
Prof. Volkov is also a Principal Investigator at the Trinity College’s Centres for Research on Adaptive Nanostructures and Nanodevices (CRANN) and Advanced Materials and BioEngineering Research (AMBER), where his group is pursuing the applications of nanomaterials for advanced research and medical diagnostics.

**Keywords**  
Nanomedicine, cancer diagnostics, advanced drug delivery, biomedical imaging, cancer biomarkers, translational medicine, nanotechnologies for health, environmental health and safety assessment of new nanomaterials

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**Professor Declan Walsh**  
**Professor of Palliative Medicine**  
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**Professional Background**  
Dr Declan Walsh has held a joint Chair as the Fottrell Professor of Palliative Medicine at Trinity and University Colleges Dublin since 2012. Previously, Dr. Walsh served at the Cleveland Clinic for 25 years holding leadership positions including Chief Executive Officer of Home Care Services, Post Acute Division Chair and Chair of Corporate Compliance. He was an elected member of the Clinic Board of Governors for 5 years.

Dr Walsh was the Founding Director of the pioneering Harry R. Horvitz Center for Palliative Medicine which has served as a model program for other cancer centers around the world. He is an internationally recognized medical oncologist and innovator in Palliative Medicine. A noted educator and researcher, he has served on the boards of professional organizations in the US and Europe. Dr Walsh was named as a Visionary by the American Academy of Hospice and Palliative Medicine, given a lifetime achievement award by the Multinational Association for Supportive Care in Cancer and received a Visiting Fellowship from Oxford University UK. He obtained his medical degree from University College Dublin, a Master’s from the University of Newcastle-on-Tyne and completed a Medical Oncology Fellowship at Memorial Sloan Kettering Cancer Center, New York. Dr Walsh is an elected Fellow of the American College of Physicians and of the Royal College of Physicians in both Edinburgh and London. He is the senior editor of a major textbook entitled Palliative Medicine published by Elsevier. In 2013 he was elected a Fellow of Trinity College Dublin.

**Keywords**  
Cancer, Cachexia, IT, Cancer Nutrition, Symptom Assessment, Cognitive Impairment, Autonomic Impairment, Fatigue and Supportive Oncology.
Miss Lucy Whiston
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Professional Background
Lucy Whiston is an Irish Research Council Scholar/Adelaide Research Assistant in the Department of Public Health and Primary Care. She has a B.A in Sociology and Social Policy and an M.S.c in Applied Social Research, both from Trinity College.

Research Interests
Health policy, health services research, social research, patient and family participation, addiction, RCTs, cross sectional studies, health asset and need assessments, chronic diseases.

Current Research Projects
1. Patient and Family Member Participation in Healthcare Design and Delivery in Ireland From a Mental and a Medical Healthcare Service Perspective.
2. A Health Asset and Need Assessment of Tallaght.
3. Chronic Disease Management in Ireland from the perspective of General Practitioners, Hospital Consultants, Practice Nurses and Patients.

Keywords
Health policy, health services research, social research, patient and family participation, addiction

Ms Fiona Wilson
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Professional Background
Fiona Wilson is an Assistant Professor and Chartered Physiotherapist with over 25 years postgraduate experience. She has a Bsc from the University of Manchester and an MSc and PhD in Sports Medicine from TCD.

Research Interests
Sports Medicine: epidemiology of injury, tendinopathies, concussion (field testing including blood biomarkers), kinematics of injury, low back pain, rowing, soccer, rugby.
Outcomes of surgery: ACL and Spinal surgery
Exercise and Physical activity in MSK disorders: RA, AS, inflammatory back pain
Systematic Reviews: 2012-2014 Cochrane Fellow

Current Research Projects
1. We are examining the role of exercise and physical activity in management of Ankylosing Spondylitis. This is one of a number of studies examining exercise interventions in arthritis.
2. In collaboration with Leinster Rugby and Steno Diabetes Centre we are examining field tests in the management of sports related concussion. Stage one examining blood biomarkers is nearing completion and stage two examining cognitive testing is in planning.
3. As part of a series of projects examining what influences patient outcomes following surgery for MSK disorders, we are examining spinal surgery. Patients' physical and psychological outcomes have been examined and an RCT is being designed using technology to improve outcome using our findings.
4. I have a number of studies in rowing medicine including collaborations with TCD Bioengineering and the Irish Institute of Sport examining the correlation of seat pressures and spinal kinematics in rowers. We are also launching a project examining mobile ECG monitoring in elite rowers in collaboration with US Rowing and Mass General Hospital. I am also launching a project as part of an international rowing network producing a consensus statement on low back pain management in rowing.
5. As continuation of projects examining hip disorders in rugby (partnering with Leinster Rugby), we are examining correlation of kinematics and clinical presentation in the hip.
6. A collaboration with the Low Back Pain Screening Clinic at AmcNCH is examining the presentation of inflammatory low back pain with an emphasis on psychological measures.

Keywords
Sports Medicine, Low back pain, Rheumatology
Dr Sara Woods
Clinical Research Fellow
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Professional Background
Dr Sara Woods is a clinical research fellow and MD candidate with Trinity College Dublin. She obtained a medical degree (MB Bch BAO) at Royal College Of Surgeons and is currently working in St. James’s Hospital. She also delivers virology lectures to the Trinity Medical students.

Due to collaboration between the National Virus Reference Laboratory and St. James’s Hospital her research study will represent the National Hepatitis C cohort.

Research Interests
Molecular epidemiology of Hepatitis C (HCV) 2006-2015. Nationally up to date data is currently lacking. Our study will provide insight into the status of HCV in Ireland and be an important source towards global HCV surveillance.

Our research aims to describe the molecular epidemiology and genetic diversity of HCV in Ireland over the last decade, to compare novel laboratory developed sequence-based genotyping with previous commercial assays, to document the prevalence of HCV resistance associated variants in NS3, NS5A and NS5B genes and to perform phylogenetic analysis, using coded samples, with a view to ascertaining the utility of this approach in informing public health interventions.

Keywords
Hepatitis C, HIV, LGV
School of Pharmacy & Pharmaceutical Sciences
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Dr Deirdre D’Arcy
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Professional Background
Deirdre D’Arcy is Assistant Professor in Pharmaceutics and Pharmaceutical Technology. She has an M.Pharm from RGU (UK), a PG Diploma in Clinical Pharmacy from LJMU (UK) and a PhD in Pharmaceutical Technology from Trinity College Dublin.

Research Interests
- Clinical pharmacokinetics of therapeutic agents.
- Mathematical modelling and visualisation of drug dissolution
- Exploration of in vitro dissolution/drug release methodologies to reflect clinically relevant in vivo environment.
- Pharmacokinetics in primary care – e.g. drug use in breastfeeding, pharmacokinetic changes on smoking cessation.

Current Research Projects
1. Development of biorelevant dissolution conditions for non-oral formulations, in collaboration with Professor Nikoletta Fotaki, University of Bath.
2. Simulation of co-crystal dissolution in collaboration with Prof. Anne Marie Healy, School of Pharmacy and Pharmaceutical Sciences, and Dr. Tim Persoons, Dept. of Mechanical and Manufacturing Engineering, TCD.
3. Pharmacokinetics of antimicrobials in haematology and critically ill patients in collaboration with Tallaght Hospital.

Keywords
Pharmacokinetics, Clinical pharmacokinetics, Dissolution, Drug release, Process Simulation and Modelling

Dr David Finlay
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Professional Background
David Finlay is an Ussher Lecturer in Cancer Biology and Therapeutics. He has a B.A(mod) and a PhD in Biochemistry from Trinity College Dublin and The University of Dundee, respectively.

Research Interests
Manipulating immune responses has the potential to provide therapy for a wide range of diseases from autoimmunity to cancer.
- The serine/threonine kinase mTORC1 (mammalian Target of Rapamycin complex 1) is a key regulator of immune cell function. Additionally, mTORC1 is a key regulator of various aspects of cellular metabolism. My recent research in CD8 T cells and Natural Killer (NK) cells links mTORC1-regulated glycolysis to the control of fundamental effector functions and promotes the idea that mTORC1 signaling integrates the control of cellular metabolism and immune cell function.
- Our research is further characterising the links between mTORC1 controlled metabolism and T cell, Natural Killer (NK) cell and DC function.

Keywords
Cancer Immunology, Immunomebolism, Natural Killer Cells, Dendritic Cells.
Professor Anne Marie Healy
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Professional Background
Anne Marie Healy is Professor in Pharmaceutics and Pharmaceutical Technology in the School of Pharmacy and Pharmaceutical Sciences and is currently Head of School. She has a B.Sc. in Pharmacy and a Ph.D. in Pharmaceutics, both from TCD.

Research Interests
Pharmaceutical material science, preformulation and formulation of pharmaceuticals, formulating poorly soluble drugs, pharmaceutical processing, pulmonary drug delivery, formulation stability.

Current Research Projects
2. Funded Investigator in the Advanced Materials and Bioengineering Research Centre (www.ambercentre.ie) – 2 projects
3. SFI Investigator’s Award: Development of Fixed Dose Combination Products using Advanced Pharmaceutical Processing Technologies
4. SFI Investigator’s Project: Co-processing of active pharmaceutical ingredients with functional excipients to prevent unintentional generation of amorphous phase
5. IRC/El Lilly funded project: Solid-state, stability, solubility and dissolution characteristics of solid dispersions produced by different processes
6. CNPq Special Visiting Researcher Award: working with the Federal University of Rio de Janeiro in Brazil on a number of formulation projects.

Keywords
Cancer Immunology, Immunomebolism, Natural Killer Cells, Dendritic Cells.

Dr Lorraine O’Driscoll
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Professional Background
BSc(Hons), Pharmacology (UCD); MSc(Res), Clinical Pharmacology (NUl & McMaster University, Canada); PhD in Biotechnology (DCU). Gained post-doctoral experience at the Dana-Farber Harvard Cancer Institute and University of Miami and lead biotechnology/biomedical research for US and EU industry before returning to academia.

Research Interests
Translational research; cancer; metabolic syndrome; obesity; diagnostic, prognostic, predictive biomarkers; novel therapeutic targets; drug development; re-purposing “old” drugs; exosomes/ectosomes; multi-drug resistance; stem cells; pre-clinical in vitro and in vivo studies; clinical trials.

Research
2. Strand Leader, Irish Cancer Society Research Centre, Breast-Predict, €7.5m (2013-2018)
3. Co-P.I. on DSRC/EU-funded Consortium investigating links between obesity, metabolic syndrome, cancer €5.5m (2012-2016)
4. >100 senior author publications; 135 conference presentations including Keynotes, Meet-the-Expert
5. Graduated/mentioned 16 PhD, 8 MSc, 3 MD, 9 Post-Docs, 8 RAs.

Keywords
Disease and health; cancer; metabolic syndrome; obesity; therapeutic targets; drug-resistance; exosomes; biomarkers
Dr Maria Jose Santos Martinez  
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Professional Background  
María José Santos-Martinez is a medical doctor Specialist in Respiratory Medicine from the Universidad Autónoma de Barcelona (Spain) and PhD from the University of Dublin. She was appointed as Assistant Professor (Ussher) in Nanopharmaceutical Drug Discovery (School of Pharmacy and Pharmaceutical Sciences & School of Medicine) in 2010.

Research Interests  
Dr Santos-Martinez is interested on Nanomedicine with particular emphasis on cancer and platelet biology as well as Nanotoxicology. Her work is currently focused on understanding nanoparticle-cell and nanoparticle-platelet interactions in relation to drug discovery, delivery and pharmacokinetics.

Current Research Projects  
Effect of different compounds, nanoparticles and novel formulations on platelet function. Platelet bioenergetics and translational research (Collaboration with Dr Richard Porter, School of Biochemistry, TCD). Unravelling molecular mechanisms underlying nanotoxicological effects of nanoparticles (Collaboration with Prof Radomski, School of Pharmacy and Pharmaceutical Sciences-TCD and Dr Inkielewicz-Stepniak, Medical University of Gdansk- Poland).

Keywords  
QCM-D, platelets, cancer, nanoparticles

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Dr Lidia Tajber  
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Professional Background  
Lidia Tajber is Assistant Professor in Pharmaceutics and Pharmaceutical Technology in the School of Pharmacy and Pharmaceutical Sciences. She gained an M. Pharm. degree from Medical University of Silesia, Katowice, Poland and then pursued her Ph.D. degree in TCD. To date she has published 57 peer-reviewed papers and made over 70 conference contributions.

Research Interests  
Preformulation studies with a focus on formation and characterisation of amorphous and multicomponent (salts, ionic liquids) forms as well as mesophases. Supersaturable drug forms. Nanoparticulates and nanocrystals – formation and colloidal stability. Thermodynamics of pharmaceutical systems.

Current Research Projects  
Funded investigator in the Synthesis and Solid State Pharmaceutical Centre (SSPC), an SFI Research Centre, working on advancement of conventional dosage forms and pharmaceutical nanocrystals. PI in a Ulysses project on the formulation, characterisation and optimisation of anti-infective “Trojan particles” containing bioactives as nanoparticles. A member of international team furthering the development of ionic liquids for energy and pharmaceutical applications.

Keywords  
Preformulation, small molecules, macromolecules, advanced pharmaceutical materials, amorphous materials, pharmaceutical salts, liquid crystals, crystals, ionic liquids, nanoparticles, spray drying, thermodynamics.
Professional Background
Associate Professor John J. Walsh graduated from Trinity College Dublin with a BA (Mod) Chemistry in 1990 and PhD in 1994. He has supervised nineteen postgraduate students to completion (15 x PhD and 4 x MSc); has over 40 peer-reviewed publications and is the National expert on Committee 13B (Phytochemistry) at the European Pharmacopoeia in Strasbourg.

Current Research Interests
1. Design of hybrid based compounds, designed multiple ligands and targeted therapies and their subsequent in vitro and in vivo evaluation in a range of disease models.
2. Development of novel procedures for the isolation of naturally occurring drug substances of plant and fungal origin.
3. Isolation and structure elucidation of natural products.
5. Design of novel online teaching modules.

Keywords
Angiogenesis; Tumour Vasculature; Allergy; Organic Synthesis; Natural Products; Tubulin/microtubules, Hybrid Drugs; Designed Multiple Ligands; Targeted Therapies; Nature’s Medicines.
St. James’s Hospital and Trinity College Dublin (TCD), with support from the Wellcome Trust and Health Research Board (HRB) operate a state-of-the-art Clinical Research Facility (CRF) within St. James’s Hospital.

Mission of the Clinical Research Facility

"It is our mission to improve health outcomes and quality of life by leading and enabling high quality, innovative translational clinical research"

Come and talk to us about your study

- **Contact** the CRF Nurse Manager at +353 1 410 3919 or reidyde@tcd.ie for an initial discussion of needs
- **Complete** the CRF’s Standard Application Form. A copy of the form is available for download from the website at www.sjhcrf.com or by email to reidyde@tcd.ie.
- **Applications** are reviewed by the CRF’s Operational Management Team, within a 10 day period in most cases. This results in approval, rejection, or requests for further information from the applicant.
- **Following** its approval the study is initiated and conducted. It is continually reviewed by the Operational Management Team to ensure it is achieving the study objectives.

CRF Contact Information

Those wishing to learn more about the CRF, or with questions on how to bring a study into the CRF are invited to contact one of the following:

**Ms. Derval Reidy**, Nurse Manager  
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**Professor Colm Bergin**, Associate Director  
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