

ISCA-China Programme Principle Investigators (Selected):

Bio-Med Technology (NUIM, RCSI, DCU, TCD)

Title and Name	University/Institute	Research Area
Prof. Harry Holthofer	DCU	BioAnalytical Sciences
Dr. Gary Jones	NUIM	Protein chaperones and prion/amyloid maintenance in yeast
Dr. Sinead Miggin	NUIM	Molecular mechanisms involved in regulating the innate immune system through the Toll-like receptors (TLRs)
Dr. Martina Schroeder	NUIM	Viral recognition by pattern recognition receptors
Dr. Sally-Ann Cryan	RCSI	Delivery of biopharmaceuticals including proteins and genes• Non-viral gene delivery systems for transfection of a range of cell types including cancer, immune, epithelial and stem cells• Liposome and peptide-based drug delivery systems• Nanoparticle and microparticle drug delivery systems• Respiratory drug delivery• Bioengineering of bioresponsive drug delivery systems• Development of in vitro and in vivo models for the assessment of novel drug delivery platforms• Novel treatment strategies for inflammatory lung disease and respiratory infections, including tuberculosis
Dr. Dermot Cox	RCSI	Molecular and Cellular Therapeutics; Role of platelets in innate immunity; Factors that regulate the response to anti-platelet agents; Biomarkers of plaque rupture; Development of inhibitors of FcγRIIa
Dr. Marc Devocelle	RCSI	Peptide Chemistry, Peptides and peptidomimetics as drug candidates and investigational tools, Peptide-based drug delivery systems and nanomedicines, Peptide-functionalised biomaterials
Dr. Gianpiero Cavalleri	RCSI	Molecular and Cellular Therapeutics, Neuroscience, Neurological disease (Human population genetics, Genetics of high altitude variation, Genetics of epilepsy, Genetics of renal transplantation)
Prof. John Waddington	RCSI	Pathobiology and psychopharmacology of psychotic illness Mutant models of schizophrenia and other psychoses Pathobiology and psychopharmacology of movement disorder Mutant models of movement disorder
Dr. Steven Kerrigan	RCSI	<i>Cardiovascular Infection (Platelets)</i> Molecular mechanisms of endovascular infection caused by Streptococci, Staphylococci and Enterococci Visualisation of thrombus formation caused by invading pathogens using real time epifluorescence microscopy

		Bacterial toxins in haemostasis <i>Skeletal Infection</i> Molecular mechanisms of bone infection caused by <i>Staphylococcus aureus</i> and <i>Staphylococcus epidermidis</i> leading to osteomyelitis
Prof. Thorfinnur Gunnlaugsson	TCD	Supramolecular organic and inorganic chemistry and bio and medicinal chemistry, with emphasis on the recognition and targeting of biologically important ions and molecules.
Dr. Kenneth Hun Mok	TCD	Protein Folding and Biomolecular NMR Spectroscopy: Probing the attainment of natively- or alternatively- folded three-dimensional molecular structures
Prof. Nigel John Stevenson	TCD	Biochemistry; •Mechanisms by which HCV and HIV block anti-viral responses •The role of innate immunity during HIV and HIV:HCV co-infection •Anti-viral responses during HIV & HCV infection in children •Markers of therapeutic outcome for HCV •Novel peptide therapeutics against HCV and HIV •Role of microRNA in regulating anti-viral immunity