

Researcher	Research Body	Co-Awardee	Co-Awardee Research Body	Award title	Funding SFI/GSI/CHF €
Elizabeth Topp	The National Institute for Bioprocessing Research and Training	Steven Ferguson	University College Dublin	Stable chemically modified mRNA vaccines	1,247,356
Gary Henehan	Technological University Dublin	Kieran Nolan	Dublin City University	Green Chemistry Biocatalysis (Genesis)	€ 1,039,309
John Ringwood	Maynooth University			Economic wave energy through technical innovation (SeaChange)	€ 1,074,213
Liam O'Mahony	University College Cork	Paul O'Toole	University College Cork	Identification of Immune-Microbial Interactions that Contribute to Metabolic Reprogramming following SARS-CoV-2 Infection	€ 1,288,649
Mathias Senge	Trinity College Dublin			Re-engineering Porphyrins – From Shape to Function (PORPHYSHAPE)	€ 1,228,898
Niamh Nowlan	University College Dublin			Developmentally inspired approaches to cartilage defect healing	€ 1,250,854
Ray Duffy	Tyndall National Institute	Gerard O'Connor	University of Galway	Pulsed laser annealing of low temperature 2D semiconductors for large area applications in electronics using flexible substrates	€ 1,274,748
Ruth Massey	University College Cork			Attack and defence: defining key bacterial pathogenic strategies to identify targets for therapeutic intervention.	€ 1,274,005
Saibal Roy	Tyndall National Institute			"High Efficiency, Novel Nonlinear Wideband, M/NEMS Electromagnetic Vibrational Generators for Powering Internet of Things – MERIT"	€ 1,294,034
Sheila McBreen	University College Dublin			Gamma-ray Investigation of the Full Transient Sky: A 6U CubeSat for the localisation of gamma-ray bursts in the multi-messenger era	€ 1,198,739
Timothy O'Brien	University of Galway			Hybrid advanced therapy medicinal products as next generation tissue engineered therapies for limb salvage in critical limb ischaemia	€ 1,220,095
William Whelan-Curtin	Munster Technological University			MetaSPECS- Metasurfaces and photonic integrated circuits for enhanced photothermal SPECTroScopy	€ 1,276,342
Yurii Gun'ko	Trinity College Dublin			Chiral 2D nanostructures	€ 976,209

Projects:

Researcher	Research Body	Co-Awardee	Co-Awardee Research Body	Award title	Co-funder	Funding SFI/GSI/CHF €
Aidan McDonald	Trinity College Dublin			High-Valent Metal-Halide Complexes for Strong C–H Bond Activation and Halogenation		€ 624,001
Andrea Erxleben	University of Galway			Novel Platinum-Based Mitocans for the Treatment of Resistant Cancers: Synthesis, Targeted Delivery and Biological Studies		€ 489,684
seaAntonio Benedetto	University College Dublin			BIONIC - Tuning the properties of model and real biomembranes by organic electrolytes. An experimental comprehensive study of elasticity, mechano-elasticity and transport through active and passive channels.		€ 577,138
Astrid Wingler	University College Cork			Functional traits of grass weeds – investigating the processes that determine weediness		€ 555,875
Audrey Morley	University of Galway			Signal Tracking to unveil Arctic Climate variability	GSI	€ 616,296
Carol Aherne	University College Dublin			Targeting mucin-mediated mechanisms to protect the intestinal barrier		€ 621,615
Colm Bracken	Maynooth University			Development of Cryogenic Microwave Kinetic Inductance Detectors toward Next-Generation Science Instruments for Astronomy and Beyond		€ 613,466
Conor O'Byrne	University of Galway			Characterisation of the function and regulation of GadR, a novel transcriptional regulator of acid resistance in <i>Listeria monocytogenes</i> .		€ 510,378
Darren Griffith	RCSI University of Medicine and Health Sciences			Development of Pt-based PROteolysis TARgeting Chimeras (Pt-PROTACs) as Molecular Probes for Pt-binding proteins and Next Generation Anticancer Agents		€ 535,065

Darrin Hulsey	University College Dublin			VitaDevo: Angling for a New Model of Osteoimmunology-Environmental Developmental Genetics of Vitamin D in Atlantic Salmon		€	576,617
Dean Venables	University College Cork			LOW COst MONitoring using Spectroscopy for High quality information on Urban Nitrogen dioxide (LOCOMOSHUN)		€	542,614
Declan Gilheany	University College Dublin			Small Nitrogen Bicycles: Constrained Molecular Geometry for Aza Bioisosteres, Encouraged Lewis Pairs and Pentavalent, Pentaco-ordinate Nitrogen		€	481,245
Derek Morris	University of Galway	Dara Cannon	University of Galway	Predicting cognitive dysfunction and psychosocial disability in schizophrenia using genetic, neuroimaging and environmental data		€	619,636
Dermot Lynott	Maynooth University	Diarmuid O'Donogh	Maynooth University	Modelling implicit bias: linking language, the media, and biased attitudes		€	503,328
Desmond Cox	University College Dublin/Children's Health Ireland	Carmen Regan	Coombe Hospital/RCSI	The impact of E-cigarettes on Childhood Health Outcomes (ECHO) study	CHF	€	616,449
Doireann O'Kiely	University of Limerick			Mathematical models for wrinkle technology (WrinkleTech)		€	466,109
Eleanor Molloy	Trinity College Dublin			PLATYPus project: Preterm infant immunomodulation to Treat sepsis and brain injury Prevention	CHF	€	483,964
Erivelton Nepomuceno	Maynooth University			Simultaneous stabilization and wave energy harvesting for a floating offshore wind/wave platform		€	587,975
Fiona Lyng	Technological University Dublin			Raman spectroscopy for monitoring of oral pre-malignant lesions for improved prognosis and management		€	542,860
Frank Wellmer	Trinity College Dublin			The formation of flowers – what determines the specificities of the floral homeotic transcription factors?		€	617,802
Gabriel-Miro Muntean	Dublin City University			Framework for Performance-aware Differentiated Innovative Services in 5G and Beyond Networks (FRADIS)		€	611,481
Giacomo Severini	University College Dublin			ReHapt: Predictive modelling-based haptic cycling rehabilitation of stroke survivors		€	619,139
Gordon Bromley	University of Galway			Geologic Perspectives on Abrupt Climate Change (GeoPAC2): Strengthening Ireland's capacity for projecting future change	GSI	€	583,739

Jakki Cooney	University of Limerick			Dynamic communication networks controlling immunomodulatory enzyme specificity and activity (DyNetIME).		€ 623,085
James Rice	University College Dublin			Responsive plasmonics using biomaterials		€ 618,910
James Sweeney	University of Limerick	Jason Wyse	Trinity College Dublin	3E-X: Emerging, Enriching and Educating to prepare for the next disease X		€ 323,912
Jamie O'Sullivan	RCSI University of Medicine and Health Sciences			Examining the role of von Willebrand Factor as a potential therapeutic target in triple negative breast cancer		€ 614,342
Jan Miletin	University College Dublin	Jana Semberova	University College Dublin	Individualized mask for infants requiring nasal Continuous Positive Airway Pressure – tailored Mask (tMASK) feasibility study		€ 478,294
John Devaney	Maynooth University			Future Forests: Understanding the effect of tree diversity in planted forests under a rapidly changing climate		€ 516,192
Lisa Orme	Maynooth University			Investigating the past climate influence on the carbon accumulation rates of Irish blanket bogs (PCARB)		€ 570,570
Louise Bradley	Trinity College Dublin			Emission control with dielectric metasurfaces		€ 605,313
Marcus Claesson	University College Cork			Determining the biotherapeutic potential of missing Lachnospiraceae in inflammatory bowel diseases		€ 622,919
Marguerite Nyhan	University College Cork			Environmental Intelligence - Modelling Complex Human-Environment Interactions for Maximising Environmental Health & Equity in Urban Areas		€ 587,385
Marion Butler	Maynooth University			Investigating Sex differences in innate immune signalling pathways of relevance to COVID-19 and SLE.		€ 618,875
Melinda Halasz	University College Dublin	Cormac Owens	Children's Health Ireland	Understanding and exploiting dysregulated mitochondrial metabolism and epigenetics for the therapy of MYCN-driven neuroblastoma	CHF	€ 614,491
Michael Coey	Trinity College Dublin			Ferrimagnetic switching with topological manganese perovskites (FISTMAP).		€ 329,734

Michael McAuliffe	Munster Technological University			MIRSIM: Microplastic InfraRed Structured Illumination Microscope		€	595,396
Mikel Egana	Trinity College Dublin			Cerebrovascular dynamic responses subsequent to high-intensity interval vs moderate-intensity continuous training in men and women with type 2 diabetes.		€	552,960
Mingming Liu	Dublin City University			Electric Shared-mobility Services to Empower Next-generation Transportation for Ireland's Ambition to reach a Low-carbon future (ESSENTIAL)		€	335,529
Oran Kennedy	RCSI University of Medicine and Health Sciences			OsteoLeukins: Osteocytes as an important source of interleukins in skeletal injury and disease		€	616,775
Özgür Bayram	Maynooth University			Molecular analysis of chromatin-regulated gene expression in mycotoxigenic fungi for improved agricultural outputs and food security		€	615,266
Patrick Walsh	Trinity College Dublin	Séamus Hussey	Children's Health Ireland	Identifying the mechanism of action of a novel therapeutic target during the earliest phases of IBD onset in childhood.	CHF	€	556,328
Paul Eastham	Trinity College Dublin			Heat transfer and dissipation in quantum devices: exploiting strong-coupling to structured baths for enhanced performance		€	416,745
Robert Forster	Dublin City University			WIREFREE ELECTROCEUTICALS: 3D Electrical and Electrochemical Stimulation of Cells		€	604,718
Simon Furney	RCSI University of Medicine and Health Sciences			NoCoSMiCC: Non-Coding Somatic Mutations in Colorectal Cancer		€	302,246
Sinead Ryan	Trinity College Dublin			The computing frontier for quantum field theories		€	620,422
Susan Quinn	University College Dublin			PhotoGene: Photoactive Nucleic Acid Probes Towards New Diagnostics and Therapeutics		€	602,648
Tommy Boland	University College Dublin			Neonatal Dietary Interventions to Reduce Enteric Methane Emissions (NeoDREMES)		€	571,783

Zili Li	University College Cork	Geotechnical big data monitoring and assessment tools for evaluating whole-life performance of underground infrastructure	€ 593,104
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