































DCU's School of Biotechnology

10th ANNUAL RESEARCH DAY



January 26th
Lonsdale Building



8:30-9:0	8:30-9:00 Registration				11:35-11:50	Session 3			
9:00-9:3	.5 Opening Remarks	•				Kim Connick	How super is your superfood?		
	Christine Loscher, Associate De Immunomodulation Research (vestigator of the		Denise Burten		Endothelial Cell Apoptosis and Resident Vascular Stem Cell Fate		
	Donal O'Gorman, Interim D Partnership	Pirector of NICB and Leader of the 3U Diabetes				Jenny Fitzgerald	Metabolomic and array-based biomarker approaches to understand human exposure to potent carcinogenic fresh water toxins		
9:15-10:	9:15-10:10 Session 1 Eoin Corcoran N-Glycans and Notch 1 control of resident vascular stem cell transition to smooth muscle		ne Biological Research Society			Roya Hakimjavadi	Tracing i	Fate Mapping of Neointimal Cells Within Vascular Lesions Using Lineage cing in vivo and Epigenetic Profiling of Stem Cell-Derived Myogenic geny in vitro.	
Eoin Corcora				11:50-12:35 Session 4					
Rajan Sambhavi Priyadarshi	The effect of continuous and intermittent electrical pulse stimulation on C 2 C 12 myotube mitochondrial respiration				Gillian Casey	The role of PP2A in regulating endothelial junction proteins			
					Ivan Maguire		ToxiSense: A centrifugal microfluidic sensor for the simultaneous detection		
Debby O'Reil	The upregulation of CaV1.3 in castrate resistant prostate cancer (CRPC) drives hypoxic signalling and stem cell characteristics				5 101 1		of the algal toxins; Microcystin-LR, Domoic Acid and Saxitoxin.		
D:-bd1l						•	Fred Sheedy Control of macrophage immunometabolic response during MTB		_
Richard Lal	Immunomodulatory effects of milk derived proteins				12:35-13:05	Industry Speaker: Patrick Ward, Research Analytical Chemist, Alltech. "Biochemical profiling of commercial selenised yeast"			
Shannon Nelso		Functional application of genomic variants to deliver personalized strategies for pancreatic cancer patients				13:05-14:00	•	Lunch Break and Poster Viewing	
Burcu Gune	es Enhancement of Anaerobic	Digestion of Whiskey Distillery Co-	Products			14:00-15:45	Session 5	5	
John Noor	John Noone A cocktail of dietary anti-oxidants and omega-3 fatty acids to prevent metabolic deterioration within the skeletal muscle induced by inactivity 10:10-10:45 Coffee Break and Poster Viewing					Alan Costello	Rolling Translation of Circularized Open Reading Frames; Fooling the Ribosome		
10:10-10:4					Arun Decano	Escherichia coli ST131 genomes from Ireland and the UK highlight transposable element activity as a key driver of antibiotic resistance			
BIOSCIENCES 10:45-11:0		Sponsor Highlight: Dr John Synnott, Sales & Marketing Executive, Bio-Sciences Limited. Sponsor Highlight: Dr Joseph Mackle, LENNOX Session 2 Investigating Intercellular Communication in Chronic Itch A comparison of the epigenetic profile of reprogrammed vascular smooth muscle cells versus stem cell-derived myogenic progeny in vitro Translation of DHFR2		-	Ricardo Valdés-Bango Curell Anne Trappe		miRNA as endogenous sensors and genetic switches in CHO cells		
							The development of an Ultrafast Strong Cation Exchange Chromatography Method for the determination of charge variants of in house produced biosimilar monoclonal antibodies.		
11:10-11:5	S Session 2					Anna Murphy	Immune	modulatory properties of Fasciola l	hepatica Glycans
Ciara Lark	in Investigating Intercellular C					Kevin Kellner Improving Biopharmaceutical Production of CHO Cells Using Targeted		CHO Cells Using Targeted	
Yusof Shukri Y Gus						Caroline Murphy		ome Engineering Tools abolomic and array-based biomarker approaches to understand human	
Niamh Book	ey Translation of DHFR2						exposure to potent carcinogenic fresh water toxins		
Paola Drag	, o	Investigation of the DHFR2 function in differentiated and undifferetiated cell lines Investigating the role of folate in driving mitochondrial heteroplasmy				15:45-16:15 Coffee Break and Poster Viewing (**)			
Darran Wal						16:15-17:00		note Speaker: Prof Lorraine O' Driscoll, School of Pharmacy & rmaceutical Sciences, Trinity College Dublin	
Darren Wals		Development of a novel biosensor			17:00-17:15		Closing Remarks and Presentation of Awards		
Molly Willian							Anne Parle-McDermott, Associate Professor, Head of School of Biotechnology and Principal Investigator of the Nutritional Genomics Group		
Susan Harmo		Endothelial release of membrane vesicles that harbour Notch and Hedgehog ligands as a POCT Predictor of Atherosclerosis				🔻 18:00-Late	Reception in The Whitworth at the Porterhouse, Glasnevin		·
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