ONLINE REGISTRATION / OPENING: 08.45-
Register here

Welcome 09.00-09:05

Donegan Communications: D1-D4 09.05-09.50
Chair: Dr. Séan Roe, QUB. Judges: Dr. Darren Roddy, RCSI
Dr. Jayne Carberry, UCD

Break 09.50-10.00

Barcroft Communications: B1–B4 10.00-10.45
Chairs / judges: Prof. James Jones, UCD. Prof. John O’Connor, UCD.

Conway Review Lecture 10.45-11.45
Prof. Paul McLoughlin
Conway Institute, School of Medicine,
University College Dublin.
From the Himalayas to intensive care: how does the lung cope?

Short Communications – Four parallel sessions 11.45-12.45
1) Cancer, inflammation and tissue repair (chair Dr. Stephen Thorpe)
2) General biomedical sciences (chair Dr. Stephen Lalor)
3) Neuroscience and muscle (chair Dr. Marian Tsanov)
4) Respiration and hypoxia (chair: Dr. Lili Li)

Announcement of Medal Winners and Closure 12.45-13.00
Donegan Communications

Targeting The Evolutionary RGD Motif In The Spike Protein Of SARS-COV-2 Serves As A Novel Treatment Option To Prevent Vascular Damage During Covid-19
D Nader, GF Curley, SW Kerrigan
School of Pharmacy and Biomolecular Sciences, RCSI University of Medicine and Health Sciences, Ireland

The Nonspecific Prolyl Hydroxylase Inhibitor Dimethyloxaaloylglycine DMOG Rescues Synaptic Transmission In An In Vitro Oxygen Glucose Deprivation Model In Rat Hippocampus
M Puzio, J O'Connor
UCD School of Biomolecular and Biomedical Science, UCD Conway Institute, Belfield, Dublin, Ireland

Mapping Molecular Subtype Specific Alterations In Breast Cancer Brain Metastases Identifies DNA Repair Defects As A Clinically Relevant Vulnerability
N Cosgrove, D Varesilija, S Keelan, SJ Furney, JM Carter, SN Hart, S Yadav, ADK Hill, S Oesterreich, AV. Lee, FJ. Couch, LS. Young
Endocrine Oncology Research Group, Department of Surgery, RCSI University of Medicine and Health Sciences, Dublin, Ireland, Genomic Oncology Research Group, Royal College of Surgeons in Ireland, Dublin, Ireland, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, MN. Department of Health Sciences Research, Mayo Clinic, Rochester, MN. Department of Oncology, Mayo Clinic, Rochester, MN. Surgical Research, Royal College of Surgeons in Ireland, Dublin, Ireland . WCRC, UPMC Hillman Cancer Center, Magee-Womens Research Institute, University of Pittsburgh, Pittsburgh, PA. WCRC, UPMC Hillman Cancer Center, Magee-Womens Research Institute, Institute for Precision Medicine, University of Pittsburgh, Pittsburgh, PA

Plasma Leptin Is Increased By Immune Activation In Rat Pups Following Neonatal Oxygen Dysregulation
M Casacao, KM O'Connor, EM Dempsey, KD O'Halloran, FB McDonald
Department of Physiology / School of Medicine, College of Medicine & Health, University College Cork, Cork, Ireland

Barcroft Communications

Development Of A Pre-Clinical Model Of Melanoma Brain Metastasis Using Mouse B16F10-Luc Melanoma Cells And The Characterisation Of Tissue-Blood Biomarkers Of Therapeutic Response And Disease Progression
M Ita, Jiang Huai Wang, Chris Lim, Henry Paul Redmond
Academic Surgery, University College Cork

How Representative Of Skim Milk Is Infant Milk Formula An Extracellular Vesicle Separation And Characterisation Study
A Mukhopadhya, J. Santoro, L. O'Driscoll
School of Pharmacy and Pharmaceutical Sciences and Trinity Biomedical Sciences Institute, Trinity College Dublin
Human Mesenchymal Stem-Stromal Cells Extracellular Vesicles As A Therapeutic Approach To Regulate Immune Response
D Tsiapalis, T Tertel, A Floudas, U Fearon, V Boerger, B Giebel, L O’Driscoll
Departments of School of Pharmacy and Pharmaceutical Sciences & Trinity Biomedical Sciences Institute, Trinity College Dublin, Dublin, Ireland, Institute for Transfusion Medicine, University Hospital Essen, University of Duisburg Essen, Essen, Germany, Molecular Rheumatology, Trinity College Dublin, Ireland

The Utility Of Plasma Circulating Cell Free Messenger RNA As A Biomarker Of Glioma
Academic Surgery, University College Cork

Short Communications

Cancer, Inflammation and Tissue Repair

Human Vascular Endothelial Cell Derived Exosomes Contribute To The Excessive Inflammatory Response Observed In Sepsis Through A Dysregulated MicroRNA Expression Profile
G Fitzpatrick, R Watkin, C McCoy, B Kavanagh, S Kerrigan
School of Pharmacy & Biomolecular Sciences, RCSI University of Medicine & Health Sciences

Reduction Of Aggressiveness Of Triple-Negative Breast Cancer By Blocking Extracellular Vesicle Release
N Mc Namee, M Catalano, A Mukhopadhyya, L O’Driscoll
School of Pharmacy and Pharmaceutical Sciences, Trinity St. James’ Cancer Institute, Trinity Biomedical Sciences Institute, Trinity College Dublin.

Harnessing The Potential Of Plasma Activated Liquids For Biomedical Applications
E Tsoukou, P Bourke, D Boehm
Environmental Sustainability and Health Institute and School of Food Science and Environmental Health, Technological University Dublin, Dublin, Ireland

Predicting Elderly Burns One-Year Survival Rate In Ireland - The Baux-Frailty Score
JB Skeens, TC Chen, A Rahman, SM Bollard, JFC Woods, OP Shelley
Trinity College Dublin. Department of Plastic & Reconstructive Surgery, St James’s Hospital

The Use Of Preclinical In Vitro Models In Cancer Research Results Of A Worldwide Survey
S Martinez-Pacheco, L O’Driscoll
Evaluating Extracellular Vesicles From Neratinib-Resistant And Neratinib-Sensitive Breast Cancer Cells As Potential Predictive Biomarkers
S Martinez-Pacheco, L O'Driscoll
School of Pharmacy and Pharmaceutical Sciences, Trinity Biomedical Sciences Institute, Trinity St. James's Cancer Institute, Trinity College Dublin, & TRAIN-EV Marie Sklodowska-Curie Action-Innovative Training Network, train-ev.eu

Pharmacological Inhibition Of Extracellular Vesicles In Prostate Cancer
M Catalano, N McNamee, A Mukhopadhya, L O'Driscoll
School of Pharmacy and Pharmaceutical Science, Trinity Biomedical Science Institute, Trinity St. James's Cancer Institute

Plasma Circulating Cell Free Messenger RNA as a Potential Biomarker of Melanoma
M.I. Ita, J.H. Wang, N. Fanning, G.F. Kaar, C.H. Lim, H.P. Redmond
Academic Surgery, University College Cork

General Biomedical Sciences

Efficacy Of CDSS In Improving Anti-Resorptive Bone Protective Therapy Amongst Orthogeriatric Inpatients - A Comparison Study
L Bhandary, N Aatika M Asri, A Taylor, A Muslim, P Hickey, B Lenehan, F Condon, J Ryan
Department of Geriatric Medicine - University Hospital Limerick, Department of Trauma and Orthopaedics - University Hospital Limerick

Separating And Comparing Characteristics Of The Extracellular Vesicles From Human Milk And It’s Best Available Commercial Alternative Infant Milk Formula
J Santoro, Anindya Mukhopadhya, Lorraine O’Driscoll
School of Pharmacy and Pharmaceutical Sciences & Trinity Biomedical Sciences Institute

Modulation Of Barrier Function In ARPE-19 Cells By Cholesterol
C Mc Cormack, B Brankin, S Meaney
School of Biological and Health Sciences, College of Sciences and Health, Technological University Dublin and Environmental Sustainability and Health Institute, Technological University Dublin

Microbiological Safety Of Filtering Facepiece Respirator Sterilisation Using Vaporized Hydrogen Peroxide
MC Rotaru, G Pozdeev, C NicGabhann, R Devlin, H McMahon, JP Gibbons, R Arnett, D O'Shea, JM O'Byrne, SW Kerrigan
Protecting The Personal Protective Equipment - An Analysis Of The Effects Of Sterilisation Methods For Filtering Facepiece Masks For Re-Use
R Devlin, C Nic Gabhann, M Rotaru, J Gibbons, D O'Shea, JM O'Byrne.
Royal College of Surgeons In Ireland, National Orthopaedic Hospital Cappagh, Zehnacker Healthcare

Establishment And Characterization Of A Retinal Pigment Epithelial Cell Line Overexpressing The Human Tight Junction Protein Claudin 1
C McCormack, B Brankin, S Meaney
School of Biological and Health Sciences, College of Sciences and Health, Technological University Dublin and Environmental Sustainability and Health Institute, Technological University Dublin

Your Sterilised Facemask - Please Wear It Again - Healthcare Workers Experience Of Sterilised Filtering Facepiece Respirators For Use In A Personal Protective Equipment Shortage - A National Roadmap For Facial PPE Sterilisation
C Nic Gabhann, R Devlin, MC Rotaru, JP Gibbons, H McMahon, D O’Shea, Steven K, JM O’Byrne, R Arnett
Department of orthopaedic surgery, National Orthopaedic Hospital, and the central decontamination unit, Zehnacker, National Orthopaedic Hospital Cappagh, and the department of chemistry, Royal College of Surgeons Ireland, and the School of pharmacy and biomolecular sciences, Royal College of Surgeons Ireland and the department of psychometrics, Royal College of Surgeons Ireland.

Examination Of The Expression Of ABCA4 In Adult Zebrafish
Q Lu, A Reynolds
UCD School Of Veterinary Medicine And UCD Conway Institute

Neuroscience and Muscle

The Effects Of Dimethyloxalylglycine MnTMPyP And Hypoxia On Synaptic Transmission In Isolated Rat Hippocampal Slices
N Moreton, JJ O’Connor
UCD School of Biomolecular and Biomedical Science UCD Conway Institute Belfield Dublin

Characteristics And Assessment Of Potential Concussive Events In The UEFA Champions League
D Sokol-Randell, MP Rotundo, C Denley, M Aranha, A Stanton, A Jilani, C Deasy, MD Cusimano
Characteristics And Assessment Of Potential Concussive Events In Gaelic Athletic Association Players
D Sokol-Randell, MP Rotundo, C Denley, M Aranha, A Stanton, A Jilani, C Deasy, MD Cusimano

Characteristics And Assessment Of Potential Concussive Events In Gaelic Hurling
D Sokol-Randell, MP Rotundo, C Denley, M Aranha, A Stanton, A Jilani, C Deasy, MD Cusimano

Morning Cortisol Hippocampal Volumes And Circuit Segments In Major Depressive Disorder
M Haines, T. Drago, A. Nasa, E. Roman, K. Levins, J. Kelly, V. O’Keane, D. Roddy
Trinity College Institute of Neuroscience, TCD, Royal College of Surgeons, St. Vincent’s University Hospital

Understanding The Contribution Of NADPH Oxidase To Diaphragm Muscle Weakness In Dystrophin-Deficient mdx Mice
AD Slyne, SE Drummond, D Cussen, KD O’Halloran, DP Burns
Department of Physiology, School of Medicine, College of Medicine and Health, University College Cork, Cork, Ireland

Pharyngeal Dilator Muscle Weakness In Pre-Symptomatic ALS Mice
DP Burns, AD Slyne, KD O’Halloran
Department of Physiology, School of Medicine, College of Medicine and Health, University College Cork, Cork

Kynurenic Acid Protects Against Reactive Glial-Associated Reductions In The Complexity Of Rat Primary Cortical Neurons
Trinity College Institute of Neuroscience, Trinity College Dublin
Respiration and Hypoxia

Investigating The Effects Of Acute High Altitude Exposure And Arterial Blood Gas Manipulation On Neurovascular Coupling In Humans
JK Leacy, DP Burns, N Jendzjowsky, C Braun, B Herrington, RJA Wilson, T Vermeulen, G Foster, A Rosenberg, G Anderson, C Rickards, EF Lucking, KD O'Halloran, TA Day
Department of Physiology, School of Medicine, College of Medicine and Health, University College Cork, Cork, Ireland.

Baroreflex Control Of Renal Sympathetic Nerve Activity And Kidney Function Following Exposure To Intermittent Hypoxia In Rats
S ALMarabeh, J O'Neill, J Cavers, EF Lucking, KD O'Halloran, MH Abdulla
Department of Physiology, School of Medicine, College of Medicine & Health, University College Cork, Cork, Ireland.

In Vitro Assessment Of The Cytotoxicity Of Ctenophore Colloblast Adhesive From Pleurobrachia Pileus
GOT Merces, M Pickering
University College Dublin School of Medicine and University College Dublin Centre for Biomedical Engineering.

Chronic Intermittent Hypoxia Blunts Renal Sympathetic Nerve Activation By Intrapelvic Bradykinin In Rats
S ALMarabeh, EF Lucking, KD O'Halloran, MH Abdulla
Department of Physiology, School of Medicine, College of Medicine & Health, University College Cork, Cork, Ireland.

The Role Of NADPH Oxidase 2 In Chronic Intermittent Hypoxia-Induced Respiratory System Dysfunction In Adult Mice
SE Drummond, DP Burns, V Healy, KD O'Halloran
Department of Physiology, UCC

Compensation Afforded By Accessory Muscles Of Breathing Is Lost In Advanced Dystrophic Disease
KD O'Halloran, DP Burns
Department of Physiology, UCC

Does Wind Or Brass Musical Instrument Playing Or Intense Sport Among Male Teenagers Affect Spirometric Lung Indices Compared With Their Sedentary Counterparts An Observational Cohort Study
P Buggy, D Buggy
University College Cork, University College Dublin
Assessment Of Respiratory EMG And Motor Unit Behaviour In The MDX Mouse Model Of Duchenne Muscular Dystrophy
K Murphy, D Burns, I Cahill, EF Lucking, KD O'Halloran
Department of Physiology, School of Medicine, College of Medicine and Health, University College Cork, Cork.