



College of Medicine and Health Research Conference

“from Molecules to People”

22nd September 2022

Devere Hall, UCC

Opening 9:00-9.15am

Professor Liam J Fanning. Launch inaugural “from Molecules to People” conference

Professor John Cryan, VPRI, UCC. UCC’s research ecosystem

Session 1: 9.20-11:00am. Subject: The molecules of life

- Speaker 1: 20 minute talk. 5 minutes for questions
 - Prof. Andrey Shkoporov. “The viral dark matter of the gut microbiome”. APC Microbiome Ireland, UCC
- Speakers 2-4. 10 minutes per talk. 3 minutes for questions. 9.45-10:24am
 - *42. Exposure to maternal pre-eclampsia serum increases neurite growth and mitochondrial function through an IL-6-dependent mechanism in an in vitro model of neurodevelopment. *Aaron Barron. Dept. Anatomy & Neuroscience*
 - 123. Design, Build and Test of novel bacteria-delivered proteins for cancer therapy. *Yensi Flores Bueso. CancerResearch@UCC*
 - 132. Base editing rescues G542X CFTR mutation. *Lucia Nicoso. Cork Adult CF Centre, CUH*
- Speakers 5-9: Elevator pitch style talks 3 minutes each. 1 question 10:25-11:00am
 - 56. Assessment of functional outcomes and inflammatory markers in patients with Functional Movement Disorders receiving a physiotherapy intervention as part of a multidisciplinary approach to recovery. *Kieran Doherty. Department of Psychiatry & Neurobehavioural Science*
 - 86. Drug loaded-microneedle systems for the treatment of allergic conditions in children: preformulation and formulation studies. *Maja Railic. School of Pharmacy*
 - 74. Bovine Immune phagome. *Liam Fanning. Dept Medicine*

- 154. Developing novel ionizable amino-polyesters for cell-type selective mRNA delivery. *Aida López Espinar. School of Pharmacy*
 - 151. Delivery of Tie2 mRNA to the endothelium as a novel strategy for the treatment of sepsis-induced multiple organ failure. *Lianne Mulder. School of Pharmacy*
- 11:00-11:30am coffee/poster viewing
- **Session 2: 11.30-1.pm. Subject: from molecules to medicines**
 - Speaker 10: 20 minute talk. 5 minutes for questions
 - Prof. Piotr Kowalski. “Engineering messenger RNA nanotherapeutics”. School of Pharmacy, UCC
 - Speakers 11-13. 10 minutes per talk. 5 minutes for questions. 11:55-12:34
 - 53. An IBD-associated pathobiont collaborates with NSAID to promote inflammation and cell death in the susceptible host via the caspase-8/NLRP3 axis. *Raminder Singh. APC Microbiome Ireland*
 - 85. When benefits outweigh the risks: The First case of Triple Therapy CFTR modulation (Kaftrio™) in a solid organ liver transplant recipient in Ireland. *Hisham Ibrahim. Cork Adult CF Centre. CUH*
 - 3. Defining the Therapeutic Potential of Class Specific Histone Deacetylase Inhibitors in an In Vitro Neuroinflammation Model of Parkinson’s Disease. *Natalie Karkoski. Dept. Anatomy & Neuroscience*
 - Speakers 14-18: Elevator pitch style talks 3 minutes each. 1 question. 12:35-1:00
 - 45. Catching the Silent Killer: Can Long Non-Coding RNAs Diagnose and Classify Ovarian Cancer? *Aideen McCabe. School of Biochemistry*
 - 121. Presence of CT-Evaluable Abnormal Body Composition Phenotypes is Associated with Poor Survival in Ambulatory Cancer Patients Receiving Systemic Therapy in Ireland (SARCONC Study). *Erin Stella Sullivan. School of Food and Nutritional Sciences*
 - 108. Investigating the peri-operative trend of inflammatory mediators in breast cancer and association between differential inflammatory mediators and tumour characteristics. *Carolyn Cullinane. Dept. of Academic Surgery*
 - 100. Tailoring strategies to support the implementation of Dose Adjustment For Normal Eating (DAFNE), a structured patient education programme for people with Type 1 diabetes. *Fiona Riordan. School of Public Health*
 - 152. Trait schizotypy and motivation for cannabis use and cessation: a cross-sectional study. *Colm O’Tuathaigh. Medical Educational Unit*
 - Speaker 19: Prof. Catirona O’Driscoll. 1:00-1:25. “Non-invasive delivery of RNA-medicines of the future”. School of Pharmacy, UCC
- Luncheon break/poster session 1:25-2:15pm
- **Session 3: 2:15-4pm. Subject focus: People centric research**
 - Speaker 20: 20 minute talk. 5 minutes for questions.
 - Prof. Jonathan Drennan. “Magnet4Europe - Improving Health and Wellbeing in the Health Care Workplace”. School of Nursing and Midwifery, UCC
 - Speakers 21-23. 10 minutes per talk. 5 minutes for questions. 2:40-3:19

- 106. UniCoV–UCC – Surveillance and detection of SARS-CoV-2 on the UCC campus during the 2021-2022 Teaching year - Apps, antigens, saliva, wastewater and participation. *John MacSharry. School of Medicine*
- 27. “Short stops” and “footnotes”: End-of-life care and the recently qualified doctor. *Catherine Sweeney. Medical Educational Unit*
- 55. Fatal Fetal Anomaly: Exploring experiences of women and their partners. *Peter Jackson. Pregnancy Loss Research Group, Cork University Maternity Hospital*
- Speakers 24-28: Elevator pitch style talks 3 minutes each. 1 question. 3:20-3:45
 - 57. Complementary and Alternative Medicine: Determining the use of biologically based practices among Irish cancer survivors. *Clodagh Scannell. CancerResearch@UCC*
 - 127. Pregnancy Outcomes Following Recurrent First Trimester Miscarriage: A Retrospective Cohort Study. *Laura Linehan. INFANT Centre. Dept. Obstetrics & Gynaecology*
 - 60. What Do Older Adults And Health Care Professionals Look For In A Food Product? *Lauren O’Mahony. Centre for Gerontology and Rehabilitation*
 - 79. TeCC (TeleHealth, Cystic Fibrosis, Corona-Virus) Study in a previous telehealth-naive-centre; Clinical challenges, outcomes, and user experience in the first six months of a global pandemic. *Tamara Vagg. Cork Adult CF Centre, CUH*
 - 29. Congenital anomalies among early neonatal deaths and very low birth weight infants in Ireland: Maternal, fetal and care characteristics. *Jane Peters. National Perinatal Epidemiology Centre, UCC*
- Speaker 29: 20 minutes. 5 minutes for questions. 3:45-4:10
 - Prof. Deirdre Murray. “Predicting early brain function in high risk children and why it matters.” INFANT Centre, UCC
- **Prize announcements and close of conference, Professor Liam J Fanning 4:10pm**

*Paper number. Title of talk. Author. Listed affiliation – see abstract for the full list of contributors and collaborators.