



DCU

School of Biotechnology 11th Annual Research Day

25th January 2019



DCU SoBT Research Day Agenda 2019

8:30 - 9:00

Registration

9:00 - 9:15

Opening Remarks

-Christine Loscher, Associate Dean of Research and Principal Investigator of the Immunomodulation Research Group

-Denise Burtenshaw, Chair of the Biological Research Society

9:15 - 10:30

Session One: Project Presentations

- Burcu Gunes | Enhancement of Anaerobic Digestion of Whiskey Distillery Co-Products
- Conor Akintola | Improving Muscle Function by Modulating the Immune System: An Application for Functional Foods
- Eoin Corcoran | The Role of N-glycosylation in the Myogenic Differentiation of Stem Cells to Vascular Smooth Muscle Cells
- Michael Kitching | Probiotics for Mastitis (Promast)
- Paloma Ozores | Toxicological Evaluation of SODIS water
- Shannon Nelson | Assessment of expression of tumour-initiating cell markers in pancreatic ductal adenocarcinoma organoids and isogenetically matched cell lines

10:30 - 11:00

Coffee Break & Poster Viewing

11:00 - 11:15

Sponsor Highlight:



Dr. John Synnott, Sales & Marketing Executive, Bio-Sciences Limited.

11:20 - 12:00

Session Two: Flash Five

- Brian Brennan | Hydrophobic membranes for the removal of ammonia from wastewater
- Caroline Menti | Effect of distinct antibody immobilization strategies on the analytical performance of a magneto-elastic immunosensor for Staphylococcus aureus detection
- Ciara Buchanan | Discovering new colon cancer drugs at the single cell level
- Ciara Larkin | Novel Insights into the Role of TRPV3 in Chronic Skin-Derived Itch
- Fionn Molloy | Point-of-care device for ultrasensitive detection of miRNA associated with heart disease
- Lucien Blanchard | Development and optimisation of a fed-batch culture of a S. Cerevisiae ale strain for the brewing industry
- Molly Williams | Molecular techniques for the detection of Salmo salar DNA from freshwater
- Susan Harman | Endothelial release of membrane vesicles that harbour Notch and Hedgehog ligands as a POCT Predictor of Atherosclerosis.

12:00- 12:15

Session Three: Multimedia

- Caroline Murphy | The development of an antibody-based sensor for the detection of *Rhynchosporium commune* or 'leaf-scald'
- Denise Burtenshaw | Lightning strikes
- John Noone | GIFing it all for the Research
- Keith Rochfort | Beauty is in the eye of the beholder
- Niamh Bookey & Paolo Drago | Deciphering the function of the human Dihydrofolate reductase 2 gene
- Yusof Shukri Gusti | A comparison of the epigenetic profile of reprogrammed vascular smooth muscle cells versus stem cell-derived myogenic progeny in vitro

12:15 - 13:00

'The Afterlife'

Dr. Donal Monaghan, *Manufacturing, science and technology downstream scientist at BMS.*

Dr. Alisha McLoughlin, *Laboratory Technologist at Nuritas*

Dr. Emma Fitzpatrick, *Research Fellow, Mechanical & Manufacturing Engineering Dept. TCD.*

13:00 - 14:00

Lunch & Networking

14:00 - 15:30

Session Four: Exit Talk

- Arun Decano | Population phylogenomics of Escherichia coli ST131 reveals evolution and spread by recombination and transposition
- Kim Connick | From the high seas to the green fields
- Neil Conlon | The potential of neratinib and dasatinib in breast cancer
- Nicola Gaynor | Keeping your foot off the brakes in cancer treatment.
- Prashant Prashant | Understanding CHO cell culture through proteomics and phosphoproteomics

15:30 - 16:00

Coffee Break Multimedia Viewing

16:00 - 17:00

Keynote Speaker; Dr. Sarah Doyle Ph.D, Assistant Professor in Immunology, Dept. Clinical Medicine, School of Medicine. JF Coordinator for BSc in Human Health and Disease, TBSI. Head of Immunobiology Research Group.

17:00 - 17:15

Closing Remarks and Presentation of Awards

Anne Parle-McDermott, Associate Professor, Head of School of Biotechnology and Principal Investigator of the Nutritional Genomics Group

18:00 - Late

Reception in The Whitworth at the Porterhouse, Glasnevin