



School of Pharmacy
University College Cork



School of Pharmacy

Scientific Conference 27th September

Driving the Pharmacy Research Agenda –

Connecting the laboratory to the bedside

(Room LG 51 Cavanagh Pharmacy Building)



PROGRAMME

- 0900 *Registration*
- 0915 *Opening: Professor John Higgins - Head of College of Medicine & Health, UCC*
- 0920 *Welcome address: Professor Caitriona O’Driscoll – Head of School*
- 0930 Professor Anita Maguire – Vice President for Research & Innovation and Professor of Pharmaceutical Chemistry
Research at the University – Industry interface: innovating together

Scientific Session 1

- 0945 ***Keynote Speaker – Professor Sandy Florence***
Patient benefit: the science imperative

1045 Question and answer session

1100 Coffee break

Flash Presentations from School of Pharmacy Researchers – Part 1

- 1120 Dr Cormac Gahan Lecturer in Microbiology
Bile, bacteria and energy metabolism: towards designer probiotics for weight management
- 1130 Dr Brendan Griffin Lecturer in Pharmaceutics
UnCORKing drug delivery solutions to improve drug targeting
- 1140 Dr Abina Crean , Lecturer in Pharmaceutics
Brick dust to vaccines: formulating therapeutics for enhanced performance
- 1150 Prof Caitriona O’Driscoll Professor of Pharmaceutics and Head of School
Gene medicines – the delivery dilemma
- 1200 Dr Anne Moore Lecturer in Pharmacology
(Presentation to be made by Dr Olivia Flynn, Postdoctoral Researcher)
ImmuPatch: insights into inter-disciplinary design and development of drug and vaccine delivery using microneedles
- 1210 Dr Christian Waeber Senior Lecturer in Pharmacology
Fingolimod in translational stroke research
- 1220 Dr Eoin Fleming Lecturer in Biochemistry,
Cellular regulation of histamine biosynthesis
- 1230 Question and answer session
- 1240 Light lunch and poster session (Presenters in attendance UG22/23 1300-1340)

1340 **Scientific Session 2:**
Keynote Speaker – Professor Carmel Hughes Queens University Belfast
Learning from the legacy of John Snow: evidence and effect in pharmacy practice research

1440 Question and answer session

1450 **Flash Presentations from School of Pharmacy Researchers – Part 2**
Dr Laura Sahm Lecturer in Clinical Pharmacy Practice
Bringing up baby: association between health literacy and beliefs about medicines in an Irish obstetric population

1500 Dr Suzanne McCarthy Lecturer in Clinical Pharmacy Practice
The epidemiology and safety of ADHD drug treatment

1510 Dr Paul McCague Lecturer in Clinical Pharmacy Practice
Views and attitudes of Pharmacy Students to inter-professional education

1520 Dr Stephen Byrne Senior Lecturer in Clinical Pharmacy Practice
Pan European clinical trials: the role of clinical pharmacy practice

1530 Round Table Discussions

1550 Closing comments by Professor Caitriona O’Driscoll Head of School

POSTER PRESENTATIONS (Location: UG22/23 1300-1340)

Influenza Vaccination using Dissolvable Microneedle Transcutaneous Patches in Pre-clinical Models Induces a Broad Antibody Response

E. Allen, A. Crean, C. O’Mahony, F. Ferrara, N. Temperton and A. Moore.

Why? A qualitative study of potentially inappropriate prescribing in older patients

Cullinan S, Flemming A, O’Mahony D, Ryan C, O’Sullivan D, Gallagher P, Byrne S.

Bumetanide in neonatal seizures: a combined *in vitro*, *in vivo* and *in silico* approach to predict the optimal dosing protocol

Donovan, M.D., O’ Brien, F.E., Boylan, G.B., Cryan, J.F., Griffin, B.T.

The effect of knocking down transcription factors on the metastasis of prostate cancer cells *in vitro*

Evans J.C., McCarthy J, Watson W.R., O’Driscoll C.

***In Vitro* Characterisation of a Cyclodextrin-siRNA Complex Modified with PEG500-Amine for application to Prostate Cancer**

Fitzgerald K, Evans J, McCarthy J, Sallas F, Darcy R, O’Driscoll CM.

A qualitative study of antibiotic prescribing in Long Term Care Facilities using the Theoretical Domains Framework

Fleming A, Bradley C, Byrne S.

The effect of interventions to reduce potentially inappropriate antibiotic prescribing in long term care facilities: a systematic review of randomised controlled trials

A. Fleming, J. Browne, S Byrne.

Modified cyclodextrins as biocompatible siRNA vectors for Huntington's disease: a nanotoxicological and neuroinflammatory comparative study

B.M.D.C. Godinho, D.J. McCarthy, C. Beltrán, A. Quinlan, J.R. Ogier, R. Darcy, C.M. O'Driscoll, J.F. Cryan.

Anti-cancer Drugs used in Human Medicine

Keating J.J.

Investigation of Novel SmPill[®] Minispheres to Enhance Ciclosporin Delivery to the Colon

Kieran Keohane, Monica Rosa, Ivan Coulter, Brendan Griffin.

A novel Silicon Microfluidic platform for the preparation of PLGA based microparticulate drug delivery systems.

Keohane, Kieran, Brennan, Des, Galvin, Paul, Griffin, Brendan T.

Gene silencing in the blood brain barrier using modified beta cyclodextrins as non-viral vectors for siRNA

McCarthy, D.J.; Godinho, B.M.D.C.; Gooding, M.; Ogier J.R.; Darcy, R.; Cryan, J. F.; O'Driscoll, C. M.

A Study of Gentamicin Degradation on Coated Surfaces

Nicholas D. Mullins, Anita R. Maguire, Humphrey A. Moynihan, Florence O. McCarthy, Simon E. Lawrence, Abina Crean, and Jonathan Thompson.

Adolescent benzodiazepine use and its health effects

Murphy KD, Byrne S, McCarthy S, Sahm LJ, Lambert S.

Interference with bacterial cell-cell signaling using synthetically generated unsaturated fatty acids

Murtagh J., Ryan R. and O'Sullivan T. P.

Pharmacokinetic and pharmacodynamic interactions between the P-glycoprotein inhibitor cyclosporin A and escitalopram in mice

F.E. O'Brien, R.M. O'Connor, G. Clarke, M.D. Donovan, T.G. Dinan, B.T. Griffin, J.F. Cryan.

Investigation into the Synthesis & Impurity Profiling of Known & Novel Routes to the α -Methylphenethylamine Known as Bromo-DragonFLY

Richard E. O'Connor, J.J. Keating.

Enantioselective Peroxidation of unsaturated aldehydes - a new route to *Plakortide P*

O'Reilly K., Gupta M. K., O'Sullivan T. P.

Forensic Impurity Profiling and Synthesis of Precursors to the Hallucinogenic Amphetamine DOB

Quille J, Keating J.J., Fitzpatrick D.

Investigations into the Substrate and Catalyst Effects on the Intramolecular Copper Catalysed C-H Insertion Reactions of α -Sulfonyl- α -Diazoacetamides

Aoife Ring, Leslie Ann Clarke and Anita R. Maguire.

Application of Novel Hydroxymethylation and Acylation Methodology for the Production of Key Pharmaceutical Intermediates

Slattery C.N, Deasy R.E, Kopach M.E, Singh U.K, Argentine M.D, Trankle W.G, Scherer R.B, Moynihan H, Maguire A.R.

In vitro transdermal delivery and distribution of ketoprofen loaded polymeric nanoparticles in intact and microneedle-treated skin

Sonja Vucen, Gordana Vuleta, Abina Crean, Anne Moore, Conor O'Mahony, Nenad Ignjatovic, Dragan Uskokovic.

