

ESACT-UK 29th Annual Scientific Meeting Programme

Wednesday 9th January 2019

- 11:00-11:15** **Meeting introduction**
Karen Coopman; ESACT-UK committee chair
- 11:15-12:00** **Invited Keynote Speaker**

Allan Bradley; Kymab

Chair: Karen Coopman; ESACT-UK committee chair
- 12:00-13:00** *Lunch*
- 13:00-14:15** **Session 1 – Upstream Processing**
Chair: Glenn Robinson; IChemE BESIG
- 13:00-13:25 **Upstream talk 1**
Lucy Foley; Centre for Process Innovation, HVM Catapult
- 13:25-13:50 **Media development combined with frozen process intermediates for intensified seed train expansion**
Christian Schultheiss; Merck R&D
- 13:50-14:15 **Upstream talk 3**
Glyn Stacey; SSC Bio
- 14:15-14:45 *Tea/coffee, trade stands and poster viewing*
- 14:45-16:20** **Session 2 – Downstream Processing**
Chair: Karen Coopman; Loughborough University
- 14:45-15:10 **Squish or burst? Deformability as a tool in scale-up of downstream processing of cellular therapies**
Nik Willoughby; Heriot-Watt University
- 15:10-15:35 **How fiber-based chromatography accelerates viral vector purifications**
Matthew Miell; Puridify

- 15:35-16:00 **A holistic approach to process development for novel bi-specific in accelerated timeline**
Alison Tang; MedImmune
- 16:00-16:15 **Poster flashes** (Victoria Smith; Giulia Lambiase; James Baker)
- 16:15-16:35 *Tea/coffee and trade stand viewing*
- 16:35 -17:50** **Session 3 – Early Career Researchers**
Chair: Rhian Carter; Oxford BioMedica
- 16:35-16:50 **Supplementation of high zinc concentrations increased both oxidative respiration and final mAb and recombinant protein titer in DP12 and CHO-K1 cells**
Berta Capella Roca; Dublin City University
- 16:50-17:05 **Process development and manufacture of primary human T-cells in scalable, automated stirred-tank bioreactors**
Elena Costariol; University College London
- 17:05-17:20 **A mathematical model describing CHO cell metabolism and antibody glycosylation for the construction of an optimized design space**
Pavlos Kotidis; Imperial College London
- 17:20-17:35 **Integrative transcriptome, proteome, and phosphoproteome reveal new aspects of high productivity in CHO cells**
Prashant Kaushik; Dublin City University
- 17:35-17:50 **The use of a mini-bioreactor cultivation system as a high-throughput screening tool for immunotherapy application**
Arman Amini; University College London
- 17:50-18:00** **Update on ESACT-UK activities and AGM**
Karen Coopman; ESACT-UK committee chair
- 18:00-20:00** Posters, trade stand viewing and networking
- 20:00** *ESACT-UK society dinner and after-dinner entertainment*

Thursday 10th January 2019

- 07:30-08:30 *Breakfast*
- 09:00-10:30** **Session 4 – Process Analytics and Modelling**
Chair: Qasim Rafiq; University College London
- 09:00-09:25 ***in silico* modelling to design and test engineered constructs for peripheral nerve repair**
Rebecca Shipley, University College London
- 09:25-09:50 **Nanosensors and measurement of biological material *in situ* and in real-time**
Jon Aylott; University of Nottingham
- 09:50-10:15 **Bioprocess Modelling: Theoretical exercise or is there more to it?**
Alexandros Kiparissides; University College London
- 10:15-10:30 **Poster flashes** (Oscar Swindley; Peter Barry; Radmila Todoric)
- 10:30-11:00 *Tea/coffee and trade stand viewing*
- 11:00-12:30** **Session 5 – Cell and gene therapy**
Chair: Peter Archibald; GSK
- 11:00-11:25 **Cell and gene therapy manufacture**
Julie Kerby; Cell and Gene Therapy Catapult
- 11:25-11:50 **AXO-Lenti-PD: An Enhanced Gene Therapy for Parkinson's disease**
Deirdre O'Connor, Oxford BioMedica
- 11:50-12:15 **Role of pericytes and mesenchymal stem cells for chronic respiratory conditions**
Jill Johnson; Aston University
- 12:15-12:30 **Poster flashes** (Rui Sanches; Thanasis Antonakoudis; William Kerry)
- 12:30-13:30** *Lunch*

13:30-14:15

Invited Keynote Speaker

Platforms for nanomedicines

Yvonne Perrie; University of Strathclyde

Chair: Julian Hanak; Nightstarx

14:15-15:45

Session 6 – Emerging Tools and Technologies

Chair: Julian Hanak; Nightstarx

14:15-14:40

Chemically diverse, polymeric vectors for delivery of messenger RNA to the lung

Asha Patel; Imperial College London

14:40-15:05

Autostem - Fully automated production of stem cells as an enabler for cell-based therapies

Jelena Ochs; IPT Fraunhofer

15:05-15:30

Extracellular vesicles – an acellular approach to bone tissue engineering?

Sophie Cox; University of Birmingham

15:30-15:45

Award of prizes and close of meeting

Best young researchers talk prize sponsored by ESACT