

ESACT-UK 27th Annual Scientific Meeting Programme

Wednesday 11th January 2017

- 11:00-11:15** **Meeting introduction**
Jon Dempsey; ESACT-UK committee chair
- 11:15-12:00** **Keynote Speaker**
Development of gene therapy and other novel treatments for retinal disease
Robert MacLaren; University of Oxford
- 12:00-13:00** *Lunch*
- 13:00-14:45** **Session 1 – Upstream Processing**
Session sponsored by Applikon Biotechnology
Chair: Dan Corcoran; Applikon Biotechnology
- 13:00-13:30 **The Study of Chaperone Mediated Autophagy in CHO Bioprocessing**
Claire Pearce; MedImmune
- 13:30-14:00 **Hijacking intracellular storage bodies; a new approach to producing difficult-to-express proteins in mammalian cells**
Tim Ganderton; University of York
- 14:00-14:30 **Characterisation of Amino Acid Transport Processes in Chinese Hamster Ovary (CHO) Cells**
Darren Geoghegan; University of Sheffield
- 14:30-14:45 **Poster flashes** (Hirra Hussain; David Sewell)
- 14:45-15:15 *Tea/coffee, trade stands and poster viewing*
- 15:15-16:00** **Keynote Speaker**
How Biochemical Engineering Tools are Changing Fundamentally Our Capacity to Achieve Efficient Manufacturing of Modern Biotherapeutics
Nigel Titchener-Hooker; University College London

- 16:00-17:00** **Session 2 – Into the future**
Session sponsored by ESACT Frontiers
Chair: Verena Lohr and Ana Filipa Rodrigues; ESACT Frontiers
- 16:00-16:30 **TBC**
Mark Post; Maastricht University
- 16:30-17:00 **Spider silk and collagens as new bioinks for biofabrication**
Thomas Scheibel; Universität Bayreuth
- 17:00-17:30 *Tea/coffee and trade stand viewing*
- 17:30 -18:30** **Session 3 – Early Career Researchers**
Session sponsored by ESACT
Chair: Alex Chan; Cell and Gene Therapy Catapult
- 17:30-17:45 **Analysis of translational reprogramming in stable recombinant Chinese Hamster Ovary cell lines**
Charlotte Godfrey; University of Kent
- 17:45-18:00 **Ultra-deep next-generation mitochondrial genome sequencing reveals widespread heteroplasmy in Chinese hamster ovary cells**
Paul Kelly; Dublin City University
- 18:00-18:15 **Scalable and controlled presentation of surface immobilised factors from the bone marrow niche for hematopoietic cell expansion**
Rebecca Moore; Loughborough University
- 18:15-18:30 **Single cell characterisation of Chinese Hamster Ovary cells**
Eva Pekle; MedImmune/University of Kent
- 18:30-18:40** **Update on ESACT-UK activities and AGM**
Jon Dempsey; ESACT-UK committee chair
- 18:40-20:00** Posters, trade stand viewing and networking
- 20:00** *ESACT-UK society dinner and after-dinner quiz*

Thursday 12th January 2017

- 07:30-08:30 *Breakfast*
- 09:30-10:45** **Session 4 – Downstream Processing and Product Quality**
Chair: Qasim Rafiq; University College London
- 09:30-10:00 **Nanofibres in bioprocessing: A single-use chromatography format by the use of rapid cycling**
Dan Bracewell; University College London
- 10:00-10:30 **GlycoDelete: Engineering of protein production systems to drastically reduce glycan heterogeneity of biopharmaceuticals**
Francis Santens; VIB Medical Biotechnology Center
- 10:30-10:45 **Poster flashes** (Sakhr Alhuthali, Calum McIntosh)
- 10:45-11:15 *Tea/coffee and trade stand viewing*
- 11:15-13:00** **Session 5 – Cell and gene therapy**
Session sponsored by IChemE
Chair: Glenn Robinson; BESIG Chair
- 11:15-11:45 **Development of a manufacturing process to supply allogeneic stem cell therapies**
Sharon Grimster; ReNeuron
- 11:45-12:15 **Challenges faced during virus process scale up**
Hannah Lesch; FinVector
- 12:15-12:45 **A BioArtificial Liver machine to treat patients with acute liver failure: pivotal results in a pre-clinical trial**
Clare Selden; University College London
- 12:45-13:00 **Poster flashes** (Elizabeth Cheeseman, Soukaina Bahsoun)
- 13:00-14:00** *Lunch*

14:00-14:45

Keynote Speaker

Stem Cells Bioprocesses and 3D pre-clinical research models

Paula Alves; iBET

14:45-15:45

Session 6 – Into the clinic

Chair: Julian Hanak; NightStarx

14:45-15:15

How much should the NHS pay for one year of life?

Paul Robinson; NICE

15:15-15:45

Cell & Gene Therapy Manufacturing: an Autologous Ex-Vivo Approach

Peter Archibald; GSK

15:45-16:00

Award of prizes and close of meeting

Best young researchers talk prize sponsored by ESACT