SHORT PRESENTATIONS and POSTERS

1.Use of the Gyros Gyrolab xP System to Support High-throughput AAV Sample Testing. Charlotte Corkhill, Paul Young ,Pharmaron, UK.

2.Flux sampling suggests metabolic signatures of high antibody-producing CHO cells. Kate Meeson, Jean Marc Schwartz, Magnus Rattray, University of Manchester; Leon P Pybus, FUJIFILM Diosynth Biotechnologies, Billingham, UK.

3.Integrating industry leading datasets with Genome-scale metabolic models to direct CHO cell line engineering. Ben Strain, Cleo Kontoravdi, Imperial College London; Holly Corrigall, Pavlos Kotidis, GSK, Stevenage, UK.

4.Chloroplast engineering in the green alga Chlamydomonas for production of novel recombinant products. Luyao Yang, Saul Purton; University College London, UK.

5.Deciphering molecular drivers of lactate metabolic shift in mammalian cell cultures. Mauro Torres, Ellie Hawke, Andrew Hayes, Alan J Dickson, University of Manchester; Robyn Hoare, Rachel Scholey, Leon P Pybus, Alison Young, FUJIFILM Diosynth Biotechnologies, Billingham, UK.

6.Rationalising mAb candidate screening with a single holistic developability parameter. Leon F Willis, William Davis Birch, David Westhead, Nikil Kapur, Sheena Radford, David Brockwell, University of Leeds; Isabelle Trayton, Janet Saunders, Maria Bruque, Katie Day, Nicholas Bond, Paul Devine, Christopher Lloyd, Nicholas Darton, AstraZeneca, UK.

7.Biomanufacturing and formulation of magnetosome cocktails for biomedical applications. Alfred Fernández-Castané, Hong Li, Moritz Ebeler, Matthias Franzreb, Tim W. Overton, Owen R.T. Thomas, Aston University.

8.Development of a high-throughput DWP based transfection platform using LONZA's GS PiggyBac technology. James Harvey, Yukti Kataria, Titash Sen, Lonza, UK.

9.Investigating Interactions Between Lipopolysaccharide and Monoclonal Antibodies Using Novel Differential Fluorination and 19F NMR. James Budge, University of Kent.

10.Generating a high-producing clonal CHO population using Amperia for IgG titre analysis. Matthew Reaney, Zeynep Betts, Alan Dickson, University of Manchester; Jon Dempsey, Pathway Biopharma Ltd.

11.Characterization of Liposome Filtration Fouling: Impact of Pressure Variations on Sterile Filtration Performance. Hercules Argyropoulos, Daniel G. Bracewell, Thomas F. Johnson, UCL; Nigel Jackson, Kalliopi Zourna, Cytiva UK.

12.A hybrid stoichiometric/data-driven approach to improve intracellular flux predictions. Morrissey J, Barberi G, Facco P, Strain B Kontoravdi C, Imperial College London, UK.

13.Cell-Free DNA Amplification for Genomic Medicine – Horses for Courses. Priya Srivastava, Daniel G. Bracewell, Department of Biochemical Engineering, UCL; John Welsh, Cytiva Europe Limited, UK.

14.Synthetic biology approaches to achieving improved payload-genome upload for AAV capsids. Tina Chen, Robert Whitfield, Darren Nesbeth, University College London, UK.

15.Development of a high-throughput DWP based transfection platform using LONZA's GS PiggyBac technology. James Harvey, Yukti Kataria, Titash Sen, R&D Lonza Biologics, UK.

16.Integrating Kinetic Modelling with Process Measurements for Cross-Cell Line State Estimation in CHO Cell Culture. Luxi Yu, Ehecatl Antonio del Río Chanona, Cleo Kontoravdi, Department of Chemical Engineering, Imperial College London, UK.

17.On Electromagnetic Stimulation in Biomanufacturing – Optimisation Using Fluorescent Reporters as a Proxy for Productivity. Afra Alkatheeri, Alistair Elfick, School of Engineering, University of Edinburgh.

18.Unravelling AAV production biology by innovative proteomic approaches. A Sergijenko, D Marginean, E Zucchelli, R Esse, S Martin, HY Lin, ML Tiburcio, V Di Cerbo Cell and Gene Therapy Catapult, London.

19.Multiomics time-course profiling of HEK293 cell lines producing AAV uncovers novel pathways for cell line engineering. Ruben Esse, Cell and Gene Therapy Catapult, London.

20.Automatic Raman based feedback control in high throughput small scale model. Mohamed Abdikarim, Alaia Maxwell, Sneha Arora, Deniz Demirhan, Andrew Dean, Anita Dabek, Lonza Biologics plc., Slough, UK.

21.Optimising Bispecific Antibody Production using Revvity's Biotherapeutic Workflow Solutions. Catherine Ingham, Tanaya Surve, Ana Rebocho, Elena Tuccori,Delphine Cougot, Revvity, Cambridge, UK; Jenna Rutber, Sophia Esch, Anubhav Tripathi, Center for Biomedical Engineering, Brown University, RI, USA.

22.Targeting glycolytic regulator PFKFB3 arrests cell growth and reduces cell specific glucose consumption optimising continuous CHO cell culture for a more sustainable perfusion bioprocess. William Smith, Mauro Torres, Alan Dickson, University of Manchester; John Raven, Leon Pybus, FUJIFILM Diosynth Biotechnologies, Billingham, UK.

23.One-step vector assembly platform for rapid production enhancement of multispecific antibodies. Alice Seleiro, Changhavi Ragurajan, Tejal Bhure, Stephen Jaffé, Michael Anbar. Lonza, Cambridge, UK.

24.Engineering CHO Cell Lines to Integrate Transcription Factors Using CRISPR-Cas12i2 for Enhanced Productivity. Vivek Krishnamoorthy, Roshini Pattem, Harry Allsopp, Isabel Whang Zhou, Keerthi Chathoth, Marc Feary, Bernadette Sweeney, Lonza Biologics, Cambridge, UK.

25.High-yield vesicle-packaged recombinant protein production from E. coli. Tara Eastwood, Karen Baker, Bree Streather, Nyasha Allen, Lin Wang, Stanley Botchway, Ian Brown, Jennifer Hiscock, Christopher Lennon, Daniel P Mulvihill, University of Kent, FUJIFILM Diosynth Biotechnologies, Billingham, UK.

26.Investigating Interactions Between Lipopolysaccharide and Monoclonal Antibodies Using Novel Differential Fluorination and 19F NMR. Amy Gorman, Alexander P. Golovanov, The University of Manchester; Stephanie Moore, BioPharmaceuticals Development, R&D, AstraZeneca, Cambridge, UK.

27.HEK293 cell line engineering using CRISPR editing techniques for improved AAV2 production. A Sergijenko, HY Lin, G Naso, R Esse, E Zucchelli, V Di Cerbo. Cell and Gene Therapy Catapult, London.