 **BioProNET2 9th Annual Science Meeting**, **October 11th-12th 2022**

**GSK, Gunnels Wood Road, Stevenage**

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| **Day 1 – Oct 11th****11:00 – 12:30** | ***Workshop:*** *My career in industry, what does an industrial career look like* *Speakers include: Paul Young (Pharmaron), Holly Corrigal (GSK), Emma Kelsall (Astrazeneca), David Humphreys (UCB), David Mentlak (University of York).* |
| ***12:30 – 13:00*** | ***Lunch*** |
| ***13:00 - 14.30******13:00 – 13:25******13:25 - 13:50******13:50 - 14:15******14:15 - 14:25*****15:25 – 15:30** | ***Session 1 – Cell Engineering (Chair Mark Smales)****Welcome and Introduction to GSK – Gary Finka**Colin Clarke (NIBRT) Found in translation: Microproteins are a new class of host cell impurity in monoclonal antibody drug products.**Jesus Zurdo (Horizon Discovery) New technology platforms to design and manufacture innovative biotherapeutics: from proteins to cell & gene therapies.**Johan Rockberg (KTH Stockholm)* *Demands of secreted protein products - systems biology improve quality and titre.**Sarah Martin (CGTC) Development and characterisation of HEK293T expression system for the enhanced production of AAV2 viral vectors.**Bioprocessing Entrepreneurial Skills Training* ***(BEST)*** *winners 2022* |
| ***14.30 -16.00*** | ***Break & POSTER SESSION*** |
| ***16:00 - 17.30******16:00 – 16:10******16:10 – 16:35******16:35 - 17:00******17:00 - 17:25******17:25 - 17:30*** | ***Session 2*** *-****Cell culture and process control*** *(****Chair Alan Dickson)****Mauro Torres (UoM) Engineering Chinese hamster ovary cells for enhanced biopharmaceuticals production**Stephen Goldrick (UCL) Data analytics and soft-sensors for process control and optimisation**Ruth Rowland-Jones (Lonza) Inline Raman Models for Feed-back Control of a High Inoculation Fed-Batch Platform Process.**Michael Sokolov (DataHow) Digital twins and hybrid models as enablers to master the industry 4.0 challenges in biopharma.**Mark Smales - BBSRC Steering Group Follow Up and Grand Challenge Questions*  |
| ***17.30 - 18:15******19.30 – 22.00*** | ***Break & POSTER SESSION******Reception & Conference dinner (Cinnabar, central Stevenage)*** |

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| **DAY 2 – Oct 12th** |  |
| ***09.00 - 10.30******09:00 – 09:25******09:25 – 09:50******09:50 – 10:15******10:15 – 10:30*** | ***Session 3 -******Heterogeneity is the essence of manufacture (Chair Paul Dalby)****Milena Quaglia (Reading Scientific Services) Mass Spectrometry for advanced therapeutic medical products.**Shahin Heshmatifar (Pall) Viral Vectors Bioprocess Development: Case Studies of Pall Allegro STR Bioreactor Applications in Gene Therapy.**Joseph Campion (Pharmaron) The AAV manufacturing challenge: Driving high quality ‘Full’ viral vector for innovative medicines.**Elli Makrydaki (Imperial) Addressing glycan heterogeneity with a novel in vitro glycosylation platform.*  |
| ***10.30 - 11.30*** | ***Break & POSTER SESSION*** |
| ***11.30 - 13.00******11:30 – 11:55******11:55 - 12:20******12:20 - 12:45******12:45 - 13:00*** | ***Session 4 -******Do we know what good is - QbD for analytics (Chair Cleo Kontoravdi)****John O’Hara (UCB) How characterisation analysis adds value to UCB’s QbD strategy.**Cristiana Campa (GSK)* *Use of QbD principles for development and lifecycle management of analytical strategies: new trends and perspectives.**Julia Leach (CPI) Analytical challenges for AAV.**Marika Campini (Pall) Adeno-associated Virus Full Capsid Enrichment* |
| ***13.00 - 13.45*** | ***Lunch*** |
| ***13.45 - 15.15******13:45 - 14:10******14:10 - 14:35******14:35 - 15:00******15:00 - 15:15*** | ***Session 5*** *-* ***10 years from now–what does the future hold (Chair David Humphreys)****Zoltan Kis (Sheffield)* *Next generation RNA vaccine and therapeutics production.**Dan Mulvihill (University of Kent) High yield vesicle packaged recombinant protein production from E. coli.**Alison Porter (Ivy Farm) A Meating of Worlds: Mammalian Biotech and Food.**Claire Fowler (Leaf Expression Systems) Sowing the seeds of a new industry: Protein production in plants.*  |
| ***15.15- 15.20*** | ***Meeting closure and awards for poster presentations*** |