

Workshop session – Sunday, May 5th 2019, 9.30 AM CET - 11.00 AM CET in the Auditorium 11, ESACT meeting Copenhagen, Denmark

ACTIP/ESACT joint session: The digital transformation of animal cell culture technology

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Scope

The ongoing digital transformation is influencing the way process scientists approach the development of manufacturing cell lines and industrial cell culture processes. Recent advances made in the field of process miniaturization, parallelization, automation and control are implemented into highly efficient process development workflows. This workshop provides insights by experts from the biopharmaceutical industry about their ways of leveraging digitalization and machine learning. Key challenges around experimental designs, data and knowledge management strategies, statistical process models and decision-making tools in the development of manufacturing cell lines and cell culture processes will be highlighted. The presenters will illustrate their concepts with example case studies and will discuss about future outlooks and opportunities in this context.

Agenda

09:30 AM – 09:50 AM

Dr. Colin Clarke (National Institute for Bioprocessing Research / NiBRT), Digitalizing Biopharmaceutical Manufacturing: A platform for Integrating the Industrial Internet of Things and Big Data Analytics

09:50 AM – 10:10 AM

Dr. Michael Sokolov (DataHow AG), Towards Industry 4.0 – the role of smart model-based solutions for cell culture process digitalization and automation

10:10 AM – 10:00 AM

Dr. Norbert Furtmann (Sanofi), Platformization of Multi-Specific Protein Engineering: Data-driven workflow support for high-throughput screening

10:00 AM – 10:20 AM

Dr. Joey Studts (Boehringer Ingelheim Pharma GmbH & Co. KG), Data Structure, Modeling and Knowledge Management in Process Development for smooth and efficient BLAs

10:20 AM – 10:30 AM

Panel discussion with all speakers