AsahiKASEI
BIOPROCESS

AGENDA

Cell Culture Clarification for Perfusion Applications Using Asahi's Hollow Fiber Microfilters (BioOptimal™ MF-SL, Microza® UMP/UJP)

11 June 2025, NIBRT Facility Dublin

	Topic	Trainer	Duration
09:00	**Welcome Coffee**		30 min
09:30	• Presentation of Asahi Kasei Bioprocess • NIBRT Introduction - Overview of the USP/DSP process	Asahi NIBRT	10 20
10:00	**Theoretical Part (Classroom)** • Introduction of general concepts: a. Cell culture and Bioreactors b. What is Perfusion cell culture? c. What is TFF? What is ATF? • Challenges in Perfusion Cell Culture and Asahi's Hollow Fiber Microfilters Lineup • Case Studies with Asahi's Hollow Fiber Microfilters in Perfusion Cell Culture • Sizing estimations at commercial scale and laboratory scale • Handling and use of Asahi's Hollow Fiber Microfilters in TFF	Asahi	60 min
11:00	**Break**	All	15 min
11:15	**Theoretical Part (Classroom)** • From Batch to Perfusion • Perfusion to Intensify Processes • Cell Retention Devices • Scaling TFF Perfusion from 0.25L to 2000L	Levitronix	60 min
12:15	**Lunch Buffet**		60 min

13:15	**Practical Part 2 (Laboratory)** • NIBRT lab tour • Preparation of the filtration setup in perfusion mode with Asahi's Hollow Fiber Microfilters • Operation of the filtration with a simulated perfusion cell culture (using yeast) • Recording of the filtration parameters and analysis • Sizing estimation at the commercial scale	Asahi/Levitronix/ NIBRT	180 min
16:15	- **Q&A** - **Wrap up and complete the Survey**	Asahi /Levitronix/NIBRT	15 min
16:30	**Drinks and finger food**		