

PRACTICAL COURSE : INTRODUCTION TO CELL BIOREACTOR PRODUCTION & MONITORING COURSE

	Monday 23.09.24	Tuesday 24.09.24	Wednesday 25.09	Thursday 26.09.24	Friday 27.09.24
AM 9.00 - 12.30	Arrival to Lyon	CHO & Sf9 process monitoring E. Petiot – 3d.FAB <i>Sampling / Cell counting / cell size analysis/ Aliquot metabolic analysis</i> <i>For Sf9 : MOI calculation + Viral infection</i>	CHO & Sf9 cell culture process monitoring E. Cowles + C. Thomann - 3d.FAB <i>Sampling and cell counting/cell size analysis / Aliquot metabolic analysis / Cytometry for Necrosis / Apoptosis monitoring</i>	CHO & Sf9 cell culture process monitoring E. Petiot + C. Thomann - 3d.FAB <i>Sampling and cell counting/cell size analysis / Aliquot metabolic analysis / Cytometry for Necrosis / Apoptosis monitoring</i>	Case study E. Cowles + E. Petiot - 3d.FAB <i>Analysis of bioreactor parameter trends / Troubleshooting</i>
12.30- 13.00		Lunch			
13.00- 14.00	Welcome E. Petiot – 3d.FAB <i>Program presentation – Safety training for access to P2 laboratory</i>				
14.00- 17.00	Bioreactors and control shake flask seeding. E. Petiot – 3d.FAB CHO culture for Mabs production – Comparison of Culture medium condition Sf9 culture for baculovirus production <i>MOI condition comparison</i>	Bioreactor presentation E. Cowles – 3d.FAB <i>Single-use vs Stainless steel / Exercise to identify bioreactor parts & bioreactor mounting</i>	Demonstration / Practice of analytical tools & Methods E. Petiot – 3d.FAB <i>Metabolic measurements (Glucose/ Lactic acid etc...) Viral quantification protocols (HA assay / TCID50 assays reading)</i>	Demonstration / Practice of analytical tools & Methods E. Cowles – 3d.FAB <i>ELISA for Mabs production</i>	Departure from Lyon