



Practical Course: Introduction To Cell Bioreactor Production & Monitoring Course 2025, 2nd edition

	Monday 27.10.	Tuesday 28.10.	Wednesday 29.10.	Thursday 30.10.	Friday 31.10.
9.00 - 12.30	Arrival to Lyon	<p>CHO process monitoring E. Petiot (3)</p> <p><i>Sampling : Cell counting / cell size analysis/ Aliquot metabolic analysis</i></p> <p>HEK293 process infection MOI calculation + Viral infection</p>	<p>CHO & HEK293 cell culture process monitoring E. Cowles, C. Thomann (5)</p> <p><i>Sampling : cell counting/cell size analysis / Cytometry for Live/dead monitoring & infection level</i></p>	<p>CHO & HEK293 cell culture process monitoring E. Petiot, C. Thomann (7)</p> <p><i>Sampling : cell counting/cell size analysis / Cytometry for Live/dead monitoring & infection level</i></p> <p><i>ELISA for Mabs production (session1)</i></p>	<p align="center">Case study E. Cowles, E. Petiot (9)</p> <p><i>Analysis of bioreactor parameter trends / Troubleshooting</i></p>
13.00-14.00	<p align="center">Welcome E. Petiot (1)</p> <p><i>Program presentation – Safety training for access to P2 laboratory</i></p>	Lunch			
14.00- 17.00	<p>Bioreactors and control shake flask seeding. E. Petiot (2)</p> <p>CHO culture for Mabs production : <i>Comparison of Culture medium condition</i></p> <p>HEK293 culture for lentivirus transfection</p>	<p>Bioreactor presentation E. Cowles (4)</p> <p><i>Single-use vs Stainless steel / Exercise to identify bioreactor parts & bioreactor mounting</i></p>	<p>Demonstration / Practice of analytical tools & Methods E. Petiot (6)</p> <p><i>Metabolic measurements (Glucose and Lactic acid etc...)</i></p> <p><i>Viral quantification protocols (HA assay / TCID50 assays reading)</i></p>	<p>Demonstration / Practice of analytical tools & Methods E. Cowles (8)</p> <p><i>ELISA for Mabs production (session 2)</i></p>	Departure from Lyon