

	Sunday, 17.09.	Monday, 18.09.	Tuesday, 19.09.	Wednesday, 20.09.	Thursday 21.09.	
9.00-9.45	<p>Arrival to Barcelona / Girona airport and transport to Hotel Terramar in Lafranc</p> <p>Check-in Hotel</p>	Introduction of Course Participants presentation F. Gòdia/P. Alves	Post-translational Modifications I E. Papoutsakis	On-line process analytics F. Gòdia	Integrated bioprocess for protein production A. Tolstrup	
9.45-10.00		Break				
10.00-10.45		Overall Lecture M. Carrondo	Post-translational Modifications II E. Papoutsakis	Bioreactor Scale-Up and Scale-Down S. Grammatikos	Integrated bioprocess for stem cells P. Alves	
10.45-11.15		Coffee Break				
11.15- 12.00		Cell line development I H. Hauser	Omics analysis for systems biology of cells I N. Borth	Miniaturization and single-use Bioreactors S. Grammatikos	Industrial perspectives of ACT A. Tolstrup	
12.00 - 12.15		Break				
12.15 - 13.00		Case Study I	Case Study I	Case Study I	Wrap-up and Course closing	
13.00 - 15.00		Lunch Break				
15.00 - 15.45		Cell line development II H. Hauser	Omics analysis for systems biology of cells II N. Borth	Downstream processing I M. Carrondo	Course completion hotel check-out and departure to airport	
15.45-16.00		Break				
16.00-16.45		Cellular mechanisms I E. Papoutsakis	Bioreactor Design I F. Gòdia	Downstream process II M. Carrondo		
16.45-17.15		Coffe Break				
17.15-18.00		Cellular mechanisms II E. Papoutsakis	Bioreactor Design II F. Gòdia	Integrated bioprocess for cell culture based vaccines P. Alves		
18.00-18.15		Break				
18.15-19.00		Case Study II	Case Study II	Case study II		
		Free time				
21.00		Welcome and dinner	Dinner			