



• Advanced production techniques for complex protein biologics • Programme

	24.10.11 Monday	25.10.11 Tuesday	26.10.11 Wednesday	27.10.11 Thursday
08:30-09:00	Arrival	Welcome note Stipan Jonjic Introduction to the course Stipan Jonjic	Practical work 3 Ion exchange chromatography	Wrap-up of practical work
09:00-09:30		Imre Berger <i>MultiBac: New baculovirus expression tools for protein complex production</i>	SDS-PAGE	
09:30-10:00				Coffee break
10:00 -11:00		Raymond Owens <i>The production of glycoproteins for structural studies using mammalian cells</i>	Christophe Romier <i>Reconstitution of complexes by multi-expression in E. coli: overview, practical aspects and test cases</i>	Practical work 5 Immunostaining of multi-labelled specimens
11:00-11:30		Coffee break	Coffee break	
11:30- 12:30		Practical work 1 Cell lysis & Ultracentrifugation	Philipp Berger <i>Multiprotein expression in mammalian cells</i>	
12:30 -13:30		Lunch break	Lunch break	
13:30- 14:00		Practical work 2 Affinity chromatography/ Fluorescence measurements	Protein quantification & Pooling of fractions	Confocal analysis of multi-labelled specimens
14:00 – 14:30		Christoph Bieniossek <i>Purifying protein complexes: Tips and tricks</i>	Practical work 4 Gel filtration	
14:30 - 15:00		SDS-PAGE/Fluorescence measurements	Frederic Garzoni <i>The Eukaryotic Expression Facility (EEF) at the EMBL</i>	
15:00 - 16:00				
16:00 - 17:00		Protein quantification & Pooling of fractions		
17:00 - 18:00		Round table discussion	Dialysis	
18:00 - 19:00			Protein concentration	

	Talks (venue: Lecture hall)		Lectures within practical work (venue: CAPRI seminar room)		Breaks (venue: Center for Proteomics) Coffee and snacks will be available all the time
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