

Sunday 06.10.		Monday 07.10.	Tuesday 08.10.	Wednesday 09.10.	Thursday 10.10.	Friday 11.10.	
9.00 - 9.45	Arrival to Barcelona/Girona airports and transfer to Hotel Terramar in Llafranc Check-in Hotel	Introduction viral vaccines and course outline A. Kamen, McGill (01)	Upstream Process development Y. Genzel, MPI (09)	QbD and PAT in vaccine development P. A. Gibert, BMGF (17)	Vaccine markets and immunization policies E. Sparrow, WHO (25)		
9:45-10:00		Coffee break					
10.00 - 10.45		Basic virology for antigen design P-J. Cardona, UAB (02)	Upstream Process Intensification Y. Genzel, MPI (10)	Vaccine formulation J. Ruano, HIPRA (18)	Novel vaccination modalities/RNA vaccines P. A. Gibert, BMGF (26)		
10:45-11:15							
11.15 - 12.00		Basic immunology for vaccine design P-J. Cardona, UAB (03)	Downstream Processing of viral vaccines C. Peixoto, iBET (11)	Adjuvants L.Cervera, UAB (19)	Key role of Bill & Melinda Gates Foundation (BMGF) P. A. Gibert, BMGF (27)		
12:00-12:15							
12.15 - 13.00		Cell lines for vaccine production I. Knott, GSK (04)	Product characterization C. Peixoto, iBET (12)	Regulatory aspects (20)	Course adjournment, hotel check-out and departure to airport		
13:00-15:00		Lunch and Free time					
15.00 - 15.45		Analytical and potency assays ... (05)	Recombinant vaccines: VLPs L. Cervera, UAB (13)	Case study: Cervarix vaccine: from baculovirus technology to first human vaccine I. Knott, GSK (21)			
15.45-16.00							
16.00 - 16.45		Case study: Vectored Vaccines ... (06)	Case study: influenza vaccines: present and future A. Kamen, McGill (14)	Case study: Polio vaccines I. Knott, GSK (22)			
16.45-17.15							
17.15 - 18.00		Case study: lessons from the pandemic situation (07)	Case study: Modified Vaccinia Ankara (MVA) vaccines I. Jordan, ProBioGen (15)	Case study veterinary vaccines: HVT vaccines (Herpesvirus of turkeys) I. Jordan, ProBioGen (23)			
18.00-18.15							
18.15 - 19.00		Case study: Tuberculosis (TB) P-J. Cardona, UAB (08)	Workshop Y. Genzel, C. Peixoto, A. Kamen (16)	Workshop presentations by participants (24)			
	Welcome and dinner	Dinner					