PASTEUR COURSE

Vaccines and Antibodies for Pandemic Preparedness and Global Health

Education Center
Institut Pasteur, Paris

June 14-25, 2027



Course Directors

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SUMMARY

This intensive two-week advanced course provides a comprehensive overview of modern vaccinology and antibody discovery, integrating immunology, structural biology, clinical development, regulatory science, manufacturing, and global policy. Designed for PhD scientists, clinicians, pharmacists, veterinarians, and global health professionals, VAPPGH bridges fundamental science and real-world implementation to accelerate next-generation vaccines and antibodies for pandemic preparedness.

This Pasteur Course incorporates the expertise of Health Sciences e-Training Foundation (HSeT) in digital learning solutions, notably through a dedicated learning platform providing access to course resources.

THURSDAY, JUNE 12TH

11:30 - 12:30	Mandatory Pre-start via Zoom Visio	**Education Center**

MONDAY, JUNE 14TH

9:00 - 9:30		**Education Center Presentation**
9:30 - 10:00	**Course and Directors introduction**	**Guillemette MASSE-RANSON** (Institut Pasteur, Paris, France) **Emanuele ANDREANO** (Fondazione Biotecnopolo di Siena, Italie)
10:00 -10:30	**Participants introduction (first group)**	
11:00 -12:30	**Participants introduction (second group)**	
14:00 - 15:15	**Vaccine history & evolution of vaccine platforms in the clinics**	**Odile LAUNAY** (Pasteur Cochin, Clinical center, France)
15:45 - 17:00	**Vaccinology in the artificial intelligence era**	**Rino RAPPUOLI** (Fondazione Biotecnopolo di Siena, Italia)
17:00 - 17:30	**Round table History and evolution**	

TUESDAY, JUNE 15TH

9:00 - 10:15	**Influenza biology and strain selection for pandemic preparedness**	**Kanta SUBBARAO** (Université Laval et Centre de recherche du CHU Laval, Québec, Canada)
10:30 - 11:45	**CHIM: clinical acceleration and knowledge about MoA**	**Marie Astrid HOOGERWERF** (Leiden University, Leiden, Netherlands)
13:30 - 14:45	**Vaccine development phases clinical trials : example of influenza**	**Speaker to be confirmed**
15:00 - 16:15	**Immune responses, vaccines and monoclonal antibodies against influenza** (visio)	**Florian KRAMMER** (Icahn School of Medicine, NewYork,USA and Medical University of Vienna, Austria)
16:30 - 17:30	**Round table Flu vaccines: what's next?**	

WEDNESDAY, JUNE 16TH

9:00 - 10:15	**Acceleration of malaria vaccines by the emergence of mRNA vaccines**	**Chetan CHITNIS** (Institut Pasteur, Paris, France)
10:45 - 12:00	**Innovation in arboviruses countermeasures: a vector approach?**	**Anna-Bella FAILLOUX** (Institut Pasteur, Paris, France)
13:30 - 14:45	**Flavivirus outbreaks and countermeasures**	**Giovana BARBA SPAETH** (Institut Pasteur, Paris, France)
15:00 - 16:15	**SARS-CoV-2 vaccine platforms and focus on mRNA**	**Norbert PARDI** (Perelman School of Medicine, University of Pennsylvania Philadelphia, USA)

16:30 - 17:30	**Round table Neglected diseases and One Health: how to persue innovation and fund low-income countries innovation and trials**	

THURSDAY, JUNE 17TH

9:00 - 10:15	**Novel approaches to tackle AMR**	**Mariagrazia PIZZA** (Imperial College, London, United Kingdom)
10:45 - 12:00	**Establishing a vaccine immune response protective threshold licensure: pneumoccal conjugate vaccine**	**Mark FLETCHER** (Pfizer, Paris, France)
13:30 - 14:45	**AMR Vaccines & Immunology**	**Speaker to be confirmed**
15:00 - 16:15	**Glycoconjugates Vaccines**	**Laurence MULARD** (Institut Pasteur, Paris, France)
16:30 - 17:30	**Round table What are the key steps to inform vaccine protection and decision making in vaccines?**	

FRIDAY, JUNE 18TH

9:00 - 10:15	**Mpox immune responses & preclinical**	**Asisa VOLZ** (Stiftung Tierärztliche Hochschule, Hannover, Germany)
10:45 - 12:00	**Orthopoxviruses: antigen design and development of vaccines**	**Alec FREYN** (Moderna, Cambridge, USA)
13:30 - 14:45	**Coronavirus outbreaks & clinical trials**	**Carole HENRY** (Moderna, Cambridge, USA)
15:00 - 16:15	**Flavivirus structural vaccinology**	**Felix REY** (Institut Pasteur, Paris, France)
16:30 - 17:30	**Round table mRNA vaccine breakthrough**	

MONDAY, JUNE 21ST

9:00 - 10:15	**mAbs & reverse vaccinology 3.0**	**Emanuele ANDREANO** (Fondazione Biotecnopolo di Siena, Italie)
10:45 - 12:00	**Structural antigen design for vaccine developments**	**Jason MCLELLAN** (University of Texas, Austin, USA)
13:30 - 14:45	**Immunomonitoring & systems immunology**	**Arnaud MARCHANT** (Université Libre Bruxelles, Belgique)
15:00 - 16:15	**Correlates of protection**	**Miles DAVENPORT** (UNSW, Sydney, Australia)
16:30 - 17:30	**Round table How translational are the Correlates of immunity between animal models, clinical trials and cohort studies? Is there a standard to identify CoP?**	

TUESDAY, JUNE 22ND

9:00 - 10:15	**Manufacturing: vaccines & antibodies**	**Zhihui QIU** (WuXi AppTec, Shanghai, China)
10:45 -12:00	**mRNA industrial manufacturing**	**Sotiris MISSAILIDIS** (Institut Pasteur, Paris, France)
13:30 - 14:45	**Adjuvant**	**Nicolas COLLIN** (Vaccine Formulation Institute, Plan-Les-Ouates, Switzerland)
15:00 - 16:15	**Evolution of the vaccine regulatory landscape for preparedness against emerging viruses and AMR pathogens**	**Isabelle BEKEREDJIAN-DING** (Marburg University, Germany)
16:30 - 17:30	**Round table Regulatory and manufacturing: what are the key steps you need to think when you start vaccine discovery?**	

WEDNESDAY, JUNE 23RD

9:00 - 10:15	**Pandemic lessons & epidemiology**	**Arnaud FONTANET** (Institut Pasteur, Paris, France)
10:45 - 12:00	**Pandemic Research and Prioritization**	**Cristina CASSETI** (CEPI & World Health Organization, Geneva, Swizerland)
13:30 - 14:45	**Hemorhagic fevers vaccines and BSL4 capacities**	**Sylvain BAIZE** (Institut Pasteur, Paris, France)
15:00 - 16:20	**Vaccine hesitancy**	**Peter J HOTEZ** (Baylor College of Medicine Houston, USA)
16:30 - 17:30	**Round table How to reconcile human/environment/animal health and innovation? What are the needs to fight the next pandemic threats?**	

THURSDAY, JUNE 24TH

9:00 - 17:00	**Exam Preparation + Course Survey**

FRIDAY, JUNE 25TH

9:00 - 12:00	**Final Exam**
14:00 - 17:00	**Closing remarks & networking. Visit of Pasteur campus?**
18:00 - 23:00	**Social event**