

PASTEUR COURSE

Vaccines and Antibodies for Pandemic Preparedness and Global Health



Education Center
Institut Pasteur, Paris



June 14-25, 2027



anrs
MALADIES INFECTIEUSES
ÉMERGENTES **Inserm**

INSTITUT
Pasteur

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.

THURSDAY, JUNE 12TH

11:30 - 12:30	Mandatory Pre-start via Zoom  Visio	Education Center
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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 Biotechnopolo 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 Biotechnopolo 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)
10:45 - 12:00	Immune responses, vaccines and monoclonal antibodies against influenza	Florian KRAMMER (Icahn School of Medicine, New York, USA and Medical University of Vienna, Austria)
13:30 - 14:45	CHIM: clinical acceleration and knowledge about MoA	Marie Astrid HOOGERWERF (Leiden University, Leiden, Netherlands)
15:00 - 16:15	Vaccine development phases clinical trials : example of influenza	Audino PODDA (Fondazione Biotechnopolo di Siena, Italy)
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 pursue 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	Smallpox history & Mpox evolution, clinical trials	Bernard MOSS (National Institute of Allergy & Infectious Diseases, Bethesda, USA)
10:45 - 12:00	Mpox immune responses & preclinical	Asisa VOLZ (Stiftung Tierärztliche Hochschule, Hannover, Germany)
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 Biotechnopolo 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, Switzerland)
13:30 - 14:45	Hemorrhagic 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
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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