Emerging infectious diseases are due to microorganisms residing in animal reservoirs and having epidemic or epizootic potential when transmitted to humans or livestock. Transmission occurs either directly or through arthropod vectors. Emergence of new pathogens is linked to ecological and environmental conditions depending on the impact of human activities on ecosystems (intensive agriculture, urbanization, deforestation, global trade, travels, climate change). The 4th One Health course will provide an overview of different disciplines contributing to the One Health concept and will point to strategies to detect, identify and control pathogens during outbreaks.

Topics:
- Disease ecology
- Climate change
- Human pandemics
- Principles of disease emergence
- Dynamics of pathogen evolution
- Viral or bacterial zoonoses;
- Barriers to cross-species transmission
- Arthropod transmission
- Risk assessment and ethics
- Innate immunity
- Prevention and treatment
- Future developments

Practical: field work; initiation to different high throughput techniques’ (sequencing, microarray…); database searching and analysis

Lectures by world renowned experts:

Ahidjo AYOUBA, Montpellier, France
Thierry BARON, Lyon, France
Guillaume CASTEL, Montpellier, France
Gregory CAIGNARD, Maisons-Alfort, France
Bruno CHOMEL, Davis, USA
Felix DREXLER, Bonn, Germany
Marc ELOIT, Paris, France
Anna-Bella FAILLOUX, Paris, France
Ron FOUCHIER, Rotterdam, The Netherlands
José DE LA FUENTE, Cdd Real, Spain
Antoine GESSAIN, Paris, France
Christian GORTAZAR, Cdd Real, Spain
Norbert GUALDE, Bordeaux, France
Frederic KECK, Paris, France
Thijs KUIKEN, Rotterdam, The Netherlands
Karine LAROUCAU, Maisons-Alfort, France
Philippe LEMERCIER, Geneva, Switzerland
Jean-Yves MADEC, Lyon, France
Jean-Claude MANUGUERRA, Paris, France
Serge MORAND, Ventiane, Laos

Course details:
- Goal: to equip the next generation of scientists with the holistic view required to deal with emerging infection
- Target audience: graduates from any disciplines related to One Health.
- Time and place: 4th to 20th of April 2016 at Institut Pasteur, Paris, France and Anses, Ecole Vétérinaire, Maisons-Alfort, France
- Deadline for application: 1st of December 2015
- Registration fees including accommodation: 200 Euros for Antigone and Predemics participants, 400 Euros for others.
- Support travel for Antigone/Predemics members.

REGISTRATION DATE IS EXTENDED TO THE 10TH OF DECEMBER 2015

Registration site: [www.pasteur.fr/fr/education/workshops/4th-one-health-course](http://www.pasteur.fr/fr/education/workshops/4th-one-health-course)