


Why a Graduate School (Ecole Universitaire de Recherche) dedicated to Emerging Infectious Diseases?

- Education of excellence is paramount to prepare the next generation of scientists, health-care professionals and policy-makers to major challenges of (re)-emerging infectious diseases (EIDs).
- Current educational programs on EIDs are highly fragmented within disciplines, preventing implementation of a “One Health” approach.
- Recent crises have shown that researchers from different disciplines and health-care professionals have difficulty carrying out cross-cutting research projects and sharing their results with policy-makers.


 The Graduate School 1H-EID provides high-level, research-based multidisciplinary training to build a community of scientists, health-care professionals and policy-makers sharing the same vocabulary, network and understanding of health, societal, economic and communication challenges represented by EIDs.

A Graduate School structured around 5 complementary objectives to better prevent and manage emerging infectious diseases

1. Master

- M1 and M2 levels
- International and multidisciplinary (biology of emerging pathogens, epidemiology, veterinary sciences, evolutive biology and socio-anthropology)
- Students in sciences and health, and from veterinary and engineering schools
- Personalized internships in a unique, multidisciplinary and internationally renowned research environment

2. PhD

- Wide range of training in the disciplines covered by the Graduate School 1H-EID
- Partnership with 5 Doctoral Schools (BioSPC, MTCI, Pierre Louis de Santé Publique, Science des sociétés, ABIES)
- Funding of targeted, inter-partner and interdisciplinary or international doctoral contracts
- Funding of thesis end, mobility grants and participation to congress

3. Continuing Education

- Professionals, researchers, policy-makers (public and private sectors)
- MOOCs, DUs (UPCité and Institut Pasteur)
- Validation of professional experience (VAP) or validation of acquired experience (VAE)
- Training of non-scientific audiences (MOOCs and crisis management exercises)

4. Innovative educational tools

- MOOCs, virtual reality tools, serious games, iGEM challenge
- Summer Schools
- Career Workshops

5. Support tools for students

- Incoming (Master) and outgoing (internship in the laboratory) mobility grants
- Mobility grants for PhD students
- Partnership with international networks: Institut Pasteur Network, CircleU, ERASMUS, IDEAL+

Contacts

Isabelle Martin-Verstraete : isabelle.martin-verstraete@pasteur.fr - Solen Kernéis : solen.kerneis@aphp.fr - Monica Sala : monica.sala@pasteur.fr





An Emerging Infectious Diseases (EID) track of the Molecular and Cellular Biology Master (BMC)

Master 1

A new EID track is open in the Molecular and Cellular Biology Master at UPCit . This track includes new courses (Computational Biology, One Health, Biostatistics, Ecology) and promotes internships on EID research subjects in EUR-associated laboratories.

Master 2

A multidisciplinary M2 course with options in the following disciplines:

Biology of emerging pathogens

Emerging pathogens
 Basic aspects in pathogen control
 Host-emerging pathogen interactions
 Antiviral immunity

Epidemiology and biostatistics

Principles, methods and data analysis
 Introduction to R and statistical reminders
 Epidemiological surveillance and health monitoring
 International health, global health

Animal, Environment and Human Interfaces

One health-one planet
 Emerging infectious diseases and zoonoses
 Risk analysis training
 Natural and induced microbiological threats

Humanities & social sciences

Global health security, risks and memories
 Socio-anthropology of health
 Political socio-anthropology, humanitarian aid and development
 Sociology of health: health, diseases and societies



Evolutionary dynamics

Genomics and evolutionary dynamics
 Population genetics
 Comparative phylogenetic approaches
 Biodiversity and functional ecology of microorganisms

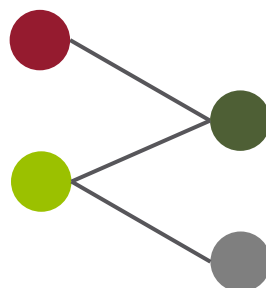
Contacts


India Leclercq : india.leclercq@pasteur.fr
 Sandie Munier : sandie.munier@pasteur.fr
 Naim Ouldali : naim.ouldali@aphp.fr

Master 2

 **1 Course (9 ECTS)**
 among 2 options

Optional Courses (12 ECTS)
 Complementary courses
 in 5 disciplines



 **1 Course (9 ECTS)**
 among 5 options

**Personalized internship in
 research laboratories**
 (30 ECTS)

