



ECO-EPIDEMIOLOGY OF EMERGING DISEASES *ECO-EPIED*

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IDIL Inter- Disciplinary and In- Lab GRADUATE PROGRAM

Mew specific declinations of existing curricula

■ **FAVORING EARLY AND LONG-LASTING IMMERSION OF MASTER STUDENTS WITHIN THE RESEARCH WORLD**

- Short “IN LAB” trainings
- 6 months internships at M1 and M2 levels
- “Mentors” from the laboratories attached to Montpellier University
- STRENGTHENED MASTER-PHD CONNECTION

■ **INTERNATIONAL OPENING**

- Scholarships for 4 months + 6-month internship stipend
- Financial support for travel to France
- Courses taught in English
 - mainly shared with French speaking students
 - French as a foreign language courses

■ **PROMOTING INTERDISCIPLINARITY RELATED TO FEEDING, PROTECTING AND CARE**

The three main thematics previously supported by the E - site MUSE – Nowadays University of Excellence



MASTER 1

MASTER 2



TRAINING UNITS

20 ECTS

▶ CORE UNITS

▶ NON-CORE UNITS

▶ TRANSVERSAL
UNITS

▶ IN-LAB UNITS

PERSONAL PROJECT

10 ECTS

Development of
of a personal project
related to research

RESEARCH INTERNSHIP

30 ECTS

- Conducting a research project
- Participate in the life of a laboratory
- Strengthen your disciplinary knowledge

MULTI- DISCIPLINARY PROJECT

10 ECTS

Group project:

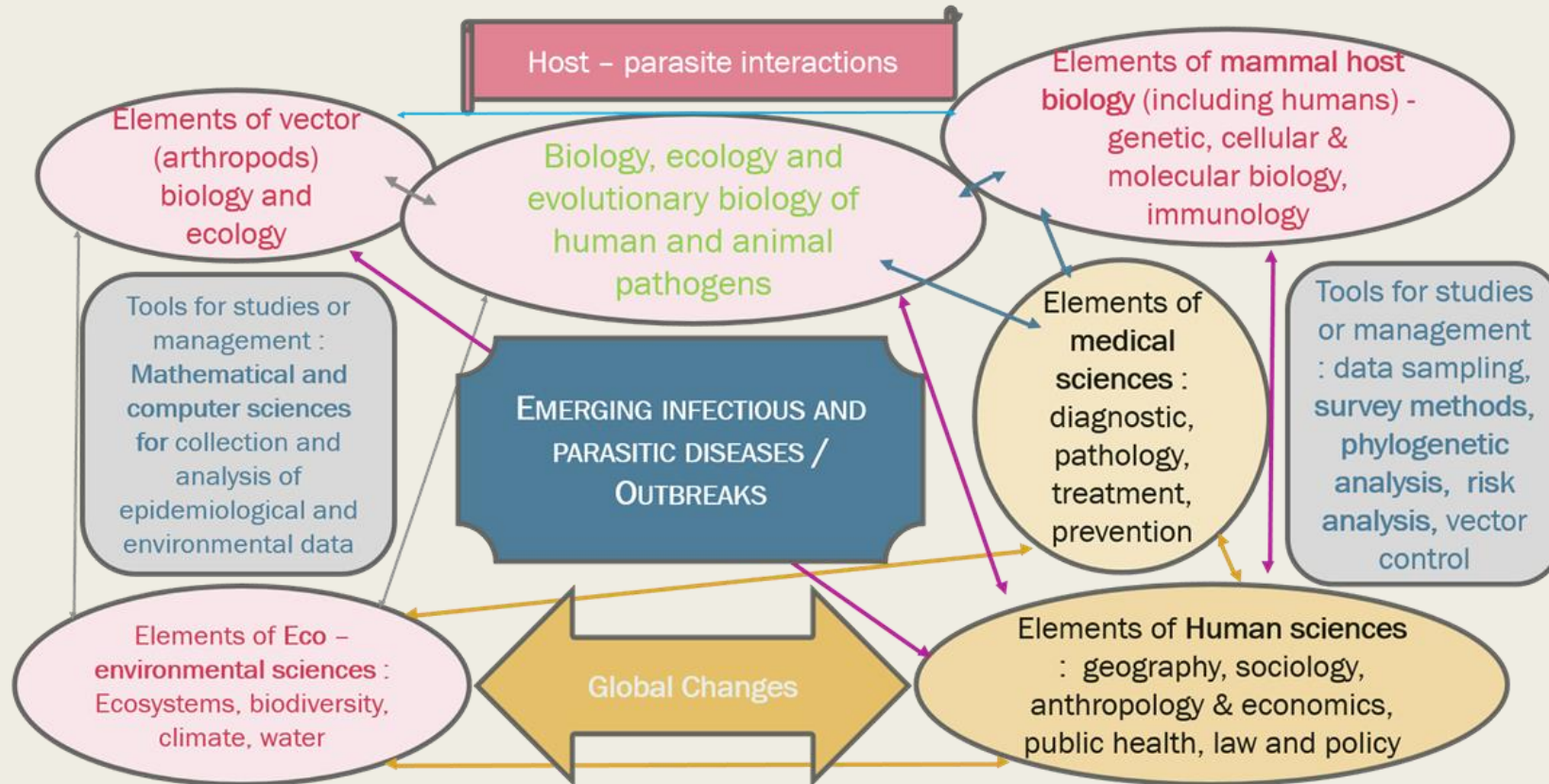
Students from different
IDIL tracks conduct an
interdisciplinary project





Eco-Epidemiology Masters

Studying and/or Managing the Epidemiological risks and Emergences of human and/or animal pathogens : A One Health perspective



- Three “classic” master courses (research and/or application) and One IDIL course (Research) : **Eco-EPIED Eco-EPIde miology of Emerging Diseases**
- Built to train the new One Health scientific generation

CORE UNITS Eco-EPIED Program

Master 1

Title	Credits
Pathogens PATH	2
Ecology and Evolution of Microorganisms and Parasitism (EEMP)	4
Eco-epidemiology of EMerging pathogenic diseases : Issues and Challenges (EMIC)	2
Study of variability (EVA)	2
Bioinformatic and Data Base	2

Master 2

TITLE	Credits
Transmission : case studies	2
Zoonoses	2
Risks, Risk Analysis and Monitoring	2
Advanced Mathematics	2
First Option = 1X 2 ECTS	2
Vectors	
Water, tehnologic and therapeutic-born pathogens' threat (W3T)	
Second Option = 1X 2 ECTS	2
Spatial Data	
Baeyesian Statistics	

In lab and non-core Units

In lab Units (in progress) 2 credits/each

- 12 hours of field and/ or lab practice
- Immersion with a researcher and his/her work
- Relevant thematics for eco-epidemiology
 - *Field sample and molecular identification of mosquitos and pathogens in a contaminated environment (microplastics)*
 - *Virology and molecular identification ?*
 - *phylogenetic analyses ?*
 - *Spacial Observations and detection?*

Non-core Units (first step of disciplinary opening) 2 x 2 credits

Mediterranean Terrestrial Ecosystems
Mediterranean Aquatic Ecosystems
Innovations in clinical biomarkers, biotechnologies for personalized medicine: current status and future perspectives
Sustainable management basics
Scientific openness to earth and water issues under global change
The social science approach to politics and policy
Challenges in chemistry for health and environment
Genome editing : policy, legal and institutional issues
Defusing quantitative bullshit

Main Montpellieran Laboratories for internship partnerships and mentors

- **MIVEGEC** : Maladies Infectieuses et Vecteurs: Génétique, Evolution et Contrôle / Infectious Diseases and Vectors: Genetic Ecology, Evolution and Monitoring -CNRS, IRD, UM (Sciences & Medicine)
- **ASTRE** : Animal- Santé- Territoires- Risques -Ecosystèmes / Animal- Health- Territories- Risks- Ecosystems -CIRAD, INRAE.
- **VIHMI** : Recherches translationnelles sur le VIH et les maladies infectieuses / Translational research on HIV and infectious diseases -IRD, INSERM, UM (Medecine & Pharmacy)
- **InterTRYP** : Interactions hôtes-vecteurs-parasites- environnement dans les maladies tropicales négligées dues aux trypanosomatides /Host-vector-parasite-environment interactions in neglected tropical trypanosomatid diseases - IRD, CIRAD.
- **ISEM** : Institut des Sciences de l'Evolution de Montpellier/ Institute of Evolutionary Science of Montpellier -CNRS, IRD, UM (sciences), EPHE, CIRAD.
- **CEFE** : Centre d'Ecologie Fonctionnelle et Evolutive / Center of Functional and Evolutionary Ecology -CNRS, EPHE, IRD, UM-
- **GBGP** : Centre de Biologie pour la Gestion des Populations / Center of Biology for Population Management -INRAE, CIRAD, IRD, SupAgro-Mtp
- **Espace-Dev** (Observation spatiales, modèles et science impliquée) (Space observation; models and actionable Science) -IRD, UM (sciences), Univ Guyane, Univ La Réunion, Univ Antilles, Univ Nouvelle Calédonie-

Contacts and questions

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More informations (already available on line or coming soon !)

- IDIL Graduate Program : <https://idil.edu.umontpellier.fr/en/welcome/>
- Training courses - UM - masters Eco-EPI - IDIL Eco-EPIED : <https://formations-en.umontpellier.fr/fr/formations/master-XB/master-eco-epidemiologie-eco-epi-KKIC5N0X.html>
- Eco-Epi web site : <https://eco-epidemiologie.com/formation-initiale/graduate-school-epied/>



FOR INTERNATIONAL STUDENTS (who have not studied in a French higher education institution in the last two years)

- IDIL subsidizes your travel costs to come study in Montpellier (600 euros).
- IDIL supports international students with 4 months of scholarship (600 euros per month) per year: that is one 4-month scholarship in M1 and a second 4-month scholarship in M2.
- During the first year, IDIL provides students with an opportunity to discover the French culture (language classes, cultural visits and sightseeing...)
- As for others students , M1 and M2 internships are fully subsidized by IDIL or the host laboratory.

Application

- Citizens from the following countries must register through « Etudes en France » procedure of CAMPUS FRANCE:
- Azerbaijan, Algeria, Argentina, Bahrain, Benin, Bolivia, Brazil, Burkina Faso, Burundi, Cambodia, Cameroon, Canada, Chile, China, Colombia, Comoros, Congo, Ivory Coast, Djibouti, Ecuador, Egypt, Gabon, Georgia, Ghana, Guinea, Haiti, India, Saudi Arabia, South Africa, United Arab Emirates, United States, Indonesia, Iran, Japan, Jordan, Kenya, Kuwait, Laos, Lebanon, Madagascar, Malaysia, Mali, Mauritius, Mauritania, Mexico, Morocco, Niger, Nigeria, Peru, Qatar, Russia, Senegal, Singapore, Taiwan, Thailand, Togo, Tunisia, Turkey, Ukraine, United Arab Emirates, United Kingdom, United States, Vietnam.