



Eco-Epidemiology Master - Montpellier University

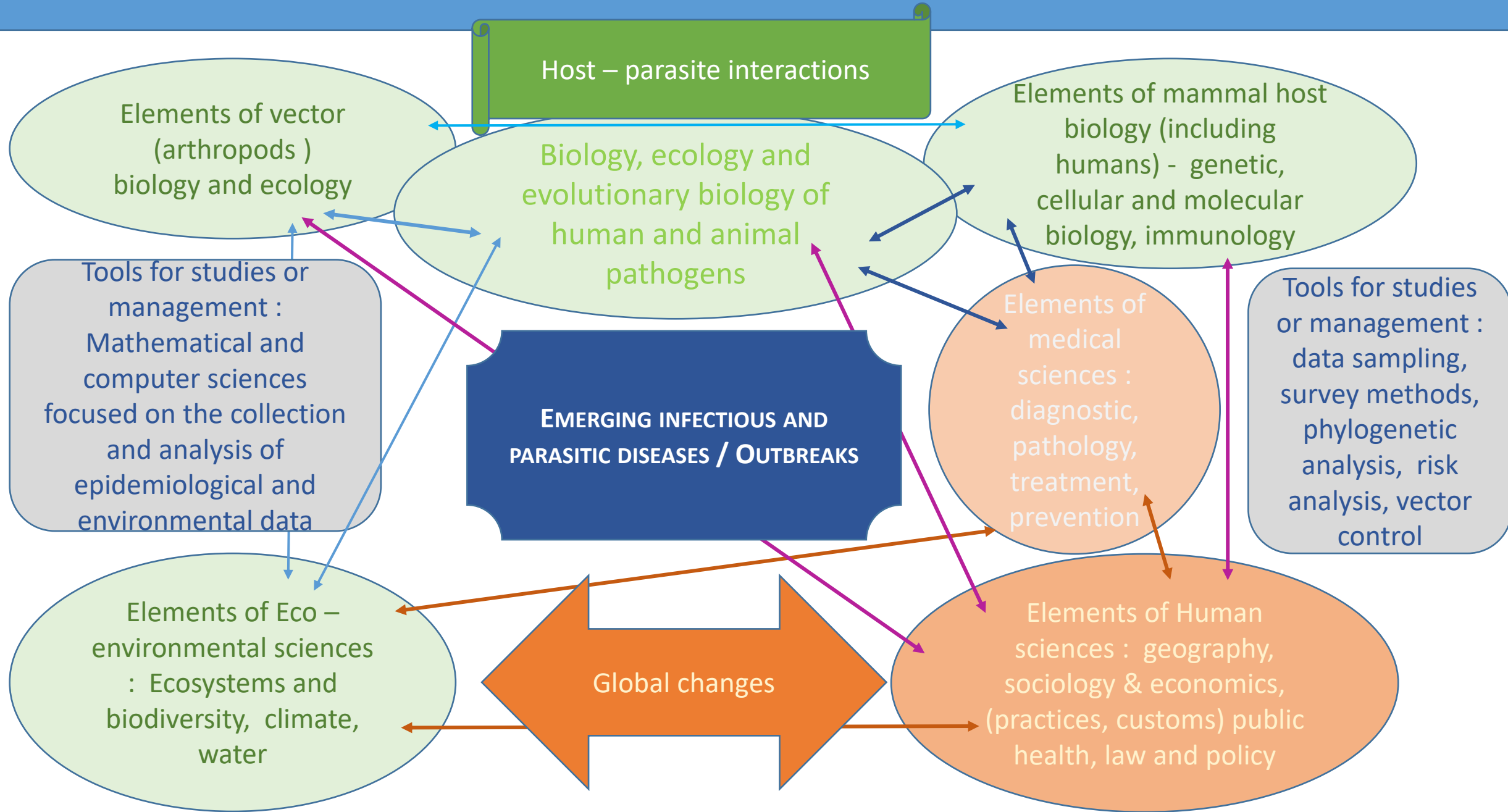
Understanding and managing the present and near futur of parasitic and infectious diseases

<https://eco-epidemiologie.com/>

Eco-Epidemiology Master - Montpellier University.

- To address the challenge of emerging infectious and parasitic diseases in Human and animal populations
- Integration of all scientific and relevant approaches from Biology to Human Sciences, with concrete contexts and needs of public Health (see slide 3)
 - Biology of pathogens
 - Ecology
 - Evolution & Phylogeny
 - Mammal host biology (genetic, immunology)
 - Vectors biology and ecology
 - Medical sciences
 - Bio –Mathematics
 - Data Bank and statistics
 - Risk analysis
 - Human Sciences : anthropology, sociology, socio-economical geography,
- To summarize, a *One Health* master dedicated to researches and applications.

Eco-Epidemiology : Integrating Sciences to integrate scales of study and management of emerging diseases



Eco-epidemiology: Two main master programs

INTEGRATED STUDY OF PARASITIC AND INFECTIOUS EMERGENCES - EI-EPI

- Aim: Trace and describe eco-epidemiological events (short or long-term eco-evolutionary, environmental, socio-economic, etc.) focusing on diseases of concern in public and animal health
- Continuation : PhD in fundamental or applied research (doctorate)
- Professions : Researchers, epidemiologists, full professors
- Research organisations / institutes, Universities, International organizations ...

MANAGEMENT AND SURVEILLANCE OF PARASITIC AND INFECTIOUS EMERGENCE – GS-EPI

- Aim : reinforce prevention, surveillance and control by integrating eco-environmental, health and socio-economic factors... specific to each intervention context
- Continuation : operational with master's degree, or applied research (after a doctorate / PhD)
- Professions: Experts in charge of epidemiological monitoring, responsible for surveillance networks,
- National management and surveillance organisations, health watch institutes, surveillance networks, International organizations, pharmaceutical companies

Master programs opened in long-life training -

Master GS-EPI in apprenticeship

Admission

- First year : Bachelors in Life Sciences or Life and Earth Sciences or Health Sciences - 4th years of medical or pharmaceutic studies (incidentally : Bachelors in Geography, Social Sciences, Health and Social Sciences)
- Second year: M1 Eco-EPI and potentially from various Biology or Biology-health M1 , 6th year of veterinary studies

Eco-epidemiology master: pedagogical approach

- Mastering sciences of interest (basic and / or advanced level) and their application to parasitic and infectious pathogens /diseases
- Mastering the unmissable scientific tools
- Applying the mastered concepts on emergence and outbreak analyses and/or management-surveillance

Integrating multi-disciplinarity and developing the mandatory thematic openness

Mastering the scientific approach and the critical mind

Mastering Project Management, knowing how to participate and leading group work, knowing how to conduct personal work, autonomy

Be able to communicate results or make recommendations, while presenting them to different audiences

Internships
(M1 and M2 levels)

Master internships

- M1 : short internship from mid-march to early-july (14 weeks) – Defense second week of july.
- M2 : master thesis from mid-january to mid-june (20 to 22 weeks) - Defense late june
- The work (and the internship agreement) could be extended after the defense but the date of the defense is mandatory
- Field internships (partial or complete) are welcome but not mandatory, depending on the subject
- For information: the apprenticeship program foresees 4 to 8 supplementary weeks for the M2 internship

Eco-epidemiology: a new IDIL master program

- Open to International students : English language
- Research - centered : less time for teaching units, more time in laboratory
- Two long-lasting internships
- See details on the Eco-EPI web site : <https://eco-epidemiologie.com/formation-initiale/graduate-school-epied/>