Medical and Veterinary Entomology

One primordial objective of Medical and Veterinary Entomology is to optimise control methods and strategies against vector-borne diseases of human and animal interest.

To meet that goal, research needs to be oriented towards a precise understanding of vectors' role and behaviour in their given ecosystems to, in turn, reduce disease transmission, particularly in the context of a changing environment (climatic change, human modifications).

Because challenges are manifold, Entomologists must take a multidisciplinary approach in order to succeed: Climate, Wars, Economic Pressure, Cultural Practices impact the way a disease is transmitted and thus the way it could be controlled. Future Entomologists will need to look at the large picture of an increasingly global world while mastering the local dynamics of vector-borne diseases.

Insecticide Treated Nets (ITNs) - Method recommended by the WHO to fight Malaria ©WHO/TDR

Placing of a tsetse fly-trap in Burkina Faso. Field-work on the vector of African Trypanosomosis by second-year IME students 2007 ©IME

Institutions Partnership

ABOMEY-CALAVI UNIVERSITY
MONTPELLIER 2 UNIVERSITY
REGIONAL INSTITUTE OF PUBLIC HEALTH
RESEARCH INSTITUTE FOR DEVELOPMENT
ENTOMOLOGICAL RESEARCH CENTER OF COTONOU

ABOMEY-CALAVI UNIVERSITY
MONTPELLIER 2 UNIVERSITY
REGIONAL INSTITUTE OF PUBLIC HEALTH
RESEARCH INSTITUTE FOR DEVELOPMENT
ENTOMOLOGICAL RESEARCH CENTER OF COTONOU

INTERNATIONAL MASTER IN MEDICAL AND VETERINARY ENTOMOLOGY

Cotonou, Benin
Montpellier, France

Aedes aegypti - major vector of Yellow Fever and Dengue ©IRD

http://www.miemv.org

Objectives

The **International Master in medical and veterinary Entomology (IME)** is a teaching programme for 2nd year Master students (M2). Its **scientific and educational objectives** are to develop a comprehensive training on research areas such as vector systematic, vector biology and ecology, population genetics, genomics and vector control.

Theoretical courses allow students to gain the necessary basis and common knowledge. **Laboratory and field-work** practices provide a hands-on experience. **Research training practice** initiate students into real research conditions. Research training practices are accomplished by oral presentations of a written report at the end of the academic year.

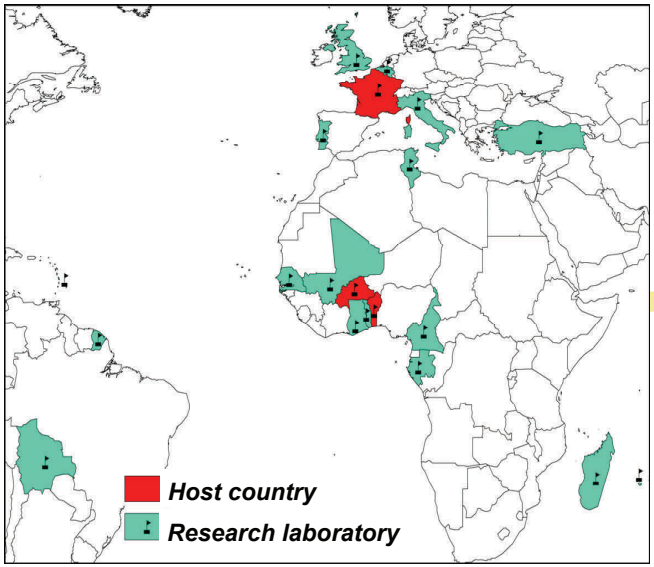
The IME's professional objective is to optimise the preparation of future PhD students into the different options - public health, veterinary, teaching and research.

Location

Theoretical courses take place at the **Institut Régional de Santé Publique (IRSP) of Ouidah in Benin.**

Laboratory and field-work practices are performed in endemic regions of **West Africa.**

Research training practice are carried out in certified host laboratories situated mainly in **Europe, Africa and South America.**



Admission Requirements

Students wishing to attend the IME must have a **Bachelor of Science (BSc)** or equivalent in Life Science: Population Biology, Ecology, Genetics, etc.

Medicine, Pharmacy or Veterinary students must also have a MSc or equivalent in Life Science.

Courses will be taught in English or French depending on the nationality of the lecturer. Students should therefore understand both languages. The written report and oral presentation can be done either in English or French, following the candidate's preference.

Student Application

Prospective IME students should apply in **march** through our website: www.miemv.org. Our website lists admission requirements. A first selection on candidates will be done on the completion of these requirements.

Candidates meeting requirements will be notified in April by e-mail and will need to submit a **full application** by **May** through the website.

Full applications are examined in **June** by the IME's **Pedagogical and Technical Committee**.

General Organisation

Theoretical courses: 6 weeks - 3 Teaching Units of 26 hours each (total of 15 ECTS*) with additional scientific lectures, exercises (analysis of publications, oral presentations) and round tables.

Field-work practices: 4 weeks – 2 Teaching Units of 26 hours each (total of 10 ECTS*)

Laboratory-work practices: 2 weeks – 1 Teaching Unit of 26 hours (total of 5 ECTS*)

Research training practice: 5 months in a certified host laboratory. The work performed during the internship will be displayed in a written report that will be presented orally in June (total of 30 ECTS*).

Laboratory practices in CREC Benin - Second-year IME students 2007 ©IME

***ECTS** : **E**uropean **C**redit **T**ransfer and accumulation **S**ystem

Two Diplomas in One

The International Master of medical and veterinary Entomology (IME) is an academic option at 2 Universities:

University of Abomey Calavi (UAC) in Bénin, Africa

University of Montpellier 2 (UM2) in France, Europe

Sponsors and stakeholders include: IRD, French Cooperation, World Health Organisation, Institut Pasteur, Centre for scientific research and surveillance on emerging diseases in the Indian Ocean (CRVOI), USAID, CIRAD, MRTC, Vector Control Industry, ANR, TWAS, FP7 -European Commission…

Since its creation in 2007, the IME has welcomed a total of **76 students** from **24 nationalities** and 3 continents (Africa, Europe, South America).

Anopheles gambiae - main malaria vector in tropical Africa ©WHO/TDR

For more information, contact the Scientific and Administrative Secretary and visit the IME's website www.miemv.org

Direction

Pr Martin Akogbeto UAC, akogbetom@yahoo.fr

Pr Catherine Moulia UM2, moulia@univ-montp2.fr

Scientific and Administrative Secretary

Dr T Baldet coordinator, coordonnateur@miemv.org

Pr G Duvallet assistant coordinator, gerard.duvallet@univ-montp3.fr

Mme I Falade administrator IRSP, admin@miemv.org

Mr FW Zoumenou administrative assistant, admin@miemv.org

Mr N Hounmasse logistician, logisticien@miemv.org