The understanding of interactions between the arthropods and the pathogens they may transmit is pivotal in combating many human and animal diseases. The MOOC “Medical entomology” aims at providing the understanding in medical and veterinary entomology at a graduate level. It will teach the role of vectors in the functioning of ecosystems and how to interrupt the vector transmission chain.

It is organized from an entomological perspective, with each session devoted to a particular taxonomic group of insects or ticks. It will be delivered in English by a team of experts from the Institut Pasteur, IRD and other famous scientific institutions. This new, open and interactive online course in medical and veterinary entomology will run from January 9 to February 18, 2017.

Objectives

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What is a MOOC?

Online courses
Unlimited participation
Open, free and accessible

Programme

Week 1
Introduction to medical entomology
Mosquitoes and Arboviruses

Week 2
Insect vectors and Parasites

Week 3
Sandflies and related pathogens
New methods/concepts to approach vector-borne diseases

Week 4
Other arthropods and Arboviruses
Insect immunity, microbiome and Miscellaneous

Week 5

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MOOC Team

MOOC’s instructors:
Anna-Bella FAILLOUX, Head of the Laboratory “Arboviruses and Insect Vectors”, Institut Pasteur
Vincent ROBERT, senior researcher, MIVEGEC unit, Institut de Recherche pour le Développement

Speakers:
Sarah BONNET (INRA), Sébastien BOYER (Institut Pasteur Madagascar), Nathalie BOLLANGER (Univ. Strasbourg), Catherine BOURGOIN (Institut Pasteur), Simon CALUCHÈMEZ (Institut Pasteur), Rémi CHARREL (Univ. Aix Marseille), Veronique CHEVAUER (IRD), Marc COOSEMANS (Institute of Tropical Medicine), Jean-Philippe DAVID (CNRS), Xavier DE LAMBALLE (Univ. Aix Marseille), Jérôme DEPAQUIT (Univ. Reims), Mawlouth DIALLO (Institut Pasteur Dakar), Gérard DUVALLET (Univ. Montpellier), Florence FOUQUE (WHO), Clarie GARROS (CIRAD), Nabil HADDAD (Lebanese Univ.), Aleksandra IGNJATOVIC CUPINA (Univ. Novi Sad), Louis LAMBROSCHITZ (Institut Pasteur), Claudio LAZZARI (IRBI), Riccardo LOURENÇO-DE-OLIVEIRA (IOC), Karen McCOY (CNRS), Brice ROTTUREAU (Institut Pasteur), Carla SALEH (Institut Pasteur), Marie VAZEILLE (Institut Pasteur), Marco VIGNUZZI (Institut Pasteur), Hervé ZELLER (ECDC)

Studied vectors

mosquitoes
ticks
sand flies
triatominae
culicoides
flies
fleas

Subscription: from September 21, 2016
Start on January 9, 2016
Duration: 6 weeks
Estimated effort: 4 hours/week

Certificates available
Graduate level
French & English subtitles

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