MedilabSecure (WP3) – Newsletter n°20 – December 2019

Dear network members,

To keep you updated of what's going on within the MediLabSecure project (medical entomology), here is few information.

NEWS FROM MLS.ENTOMO

> **Feedback on the regional training "Vector identification & surveillance" / 16-19 September 2019, Serbia**, co-organized with the University of Novi Sad. This advanced training has gathered 17 participants from 10 Balkan and Black Sea countries. During 4 days, participants received a very practical approach on vector identification, biology, surveillance and control. Report, resources (presentations, identification keys, protocols) and pictures are available on the MediLabSecure website.

> **Feedback on the training "Introduction on mapping & modelling" / 13-17 October 2019, Algeria**, co-organized with Pasteur Institute of Algeria. This training has gathered 14 participants from 12 MediLabSecure countries. During 5 days, participants received a theoretical and practical approach on mapping, early-warning and modelling. Report, resources and pictures are available on the MediLabSecure website.

> **Feedback on the seminar "Capacity building in medical entomology for Sahel countries" / 29-30 October 2019, Burkina Faso**, co-organized with CNRFP. This seminar has gathered 16 representatives from 5 Sahel countries. This 2-day meeting was the opportunity to take full measure of the diversity that makes up all the medical entomology laboratories of the MediLabSecure network, to better assess their needs in terms of surveillance and vector control, and to introduce them the activities of the medical entomology working group that will be carried out throughout the next two years.
A report is available on the MediLabSecure website.

> **Launch of MosKeyTool-Sahel.** A new identification key for mosquitoes of Sahel (MosKeyTool-Sahel) is going to be developed this next two years. The first version of the tool will be delivered in French by regard to potential users. The total number of mosquito species is estimated between 120 and 130 species. El Hadji N'Diaye (Institut Pasteur Dakar) will be in charge of this achievement through a 18-month post-doc. A warm welcome and a great success in this new adventure ! His scientific coordination will be ensured by Mawlouth Diallo (Head of the Entomo lab at Institut Pasteur de Dakar, Senegal) and Vincent Robert (WP3 Leader). Read the MosKeyTool-Sahel specifications.

> **Upcoming training "Entomology for non-entomologists" / 23 January 2020, Senegal.** A one-day training on basic medical and veterinary entomology will be proposed during the Regional meeting in Dakar to all MediLabSecure people who are not specialist in entomology. At the end of the day, the trainees should be in a position more favorable to discuss on equal terms with crazy entomologists!

> **Call for creativity.** As we are aware that a good field sampling needs appropriate clothes, we plan to design T-shirts for the MediLabSecure entomologists. Every good ideas (mosquito drawings, pictures, catchphrases) are welcome. Unleash you creativity, have fun and share with us your ideas on the following link !

MEDILABSECURE IN SHORT
> **Regional meeting in Senegal / 20-24 January, 2020.** The 1st Regional meeting of the new phase of the MediLabSecure project will be held in Dakar (Senegal) in January 20-24, 2020. Co-organized with the Institut Pasteur in Dakar, this meeting will gather around 60 representatives from all sectors (human and animal virology, medical entomology, public health and veterinary services, modelling and early warning tool) in 8 countries from North Africa and Sahel. It will be focused on Rift Valley Fever with the usual "One Health" spirit that constitutes the roots of the MediLabSecure project.

VECTOR WORLD
> **AIM-COST conference 2020, Lisbon.** The 2nd AIM-COST Annual Conference will be focused on Surveillance of *Aedes* Invasive Mosquitoes in Europe. In particular, sessions will be focused on surveillance and risk mapping, monitoring of insecticide resistance and gaps and solutions for harmonization and improvements of European policies and guidelines. Many MediLabSecure members are involved in this project, so see you soon !

> **Feedback workshop WIN.** A European workshop on testing procedures for monitoring and managing insecticide resistance in invasive mosquitoes was held in November 18-22, 2019 in Montpellier, France. It was jointly organized by the World Health Organization (WHO) and IRD through the WIN network. We were glad to meet in Montpellier several MediLabSecure people from Algeria, Albania, Libya, Morocco and Serbia. For an overview, read the participant's diary that Mihaela Kavran from Serbia share with us. Thank you Mihaela ! If you are interested by the resources (key-note lectures, SOP...) of this workshop, feel free to contact us.

ENJOY READING
> [Resources in French] Entomologie médicale et vétérinaire, Gérard Duvallet, Didier Fontenille et Vincent Robert, IRD Editions, 2017. This book in French is now in open-acces online.

> [Resources in French] Awareness-raising tools on the Tiger mosquito. A one-day meeting for sharing tools and devices for awareness of the tiger mosquito was held in Montpellier in November. Many communication tools and initiatives have been identified in this educational booklet.

> Guidelines for the design and operation of containment level 2 and 3 insectaries, Infravec2.

> Vector Hazard report, *Anopheles stephensi,* WRBU. *Anopheles stephensi* was first reported from Africa in 2013 (in Djibouti) where it has at once played a significant role in malaria outbreaks in the area. Since it's initial discovery in Africa, *An. stephensi* has been reported from other countries (Ethiopia and Sudan). More surveillance is needed to monitor this vector's expanding range and predict habitat suitability throughout Africa.

> Management of insecticide resistance in the major *Aedes* vectors of arboviruses: Advances and challenges, Dusfour et al, 2019, PLoS Negl Trop Dis 13(10)

All the previous entomo newsletters are available on the MediLabSecure website.