



# Activities timeline



The network lives through a range of activities implemented by one or more working groups, often involving participants transversally

- 🦋 Animal virology
- 🦟 Medical entomology
- 🦠 Human virology
- 🏠 Public Health
- 🤝 Joint activity / coordination group

## 2014

**Project kick-off meeting**  
 April Paris  
 First project core partners meeting to discuss project orientations, organization, objectives, activities and timelines.

**Exhibition «Vectors and Diseases»**  
 Montpellier  
 This travelling exhibition displays the biology of a broad range of vectors and how they transmit disease. It also discusses how control is achieved. This 18-panels exhibition is available in four languages, and in booklet format.

**Laboratories selection meeting**  
 October Paris  
 Select, based on responses to submitted questionnaires and a set of defined criteria, a group of labs to join the three sub-networks. The aim was to identify one lab per network per country.

## 2015

**Heads of Laboratories Meeting**  
 January Paris  
 First reunion of the representatives from the laboratories selected to be part of the MediLabSecure network was held to discuss project priorities and future directions.

**Arboviruses diagnostics workshop**  
 June Paris  
 Molecular and serologic diagnostic methods for the detection of West Nile, Rift Valley fever and Chikungunya infections. Medical entomology and animal health aspects of these three viral infections were addressed additionally to the human health aspects.

**Molecular diagnosis of zoonotic arboviruses workshop**  
 June Madrid  
 Acquisition of essential knowledge (theoretical and practical) on molecular diagnostic techniques for relevant zoonotic arboviruses, with special focus on West Nile virus and Rift Valley Fever virus.

## 2016

**Serological diagnosis of zoonotic arboviruses workshop**  
 April Madrid  
 Acquisition of essential knowledge (theoretical and practical) on serological diagnostic techniques for relevant zoonotic arboviruses, with special focus on West Nile virus and Rift Valley Fever virus.

**Mosquito vectors of arboviruses workshop #3**  
 June Tunis  
 Enabling laboratories to develop capacity building in mosquito vector of arboviruses (sampling, determination, surveillance) and to enhance regional cooperation (North African region).

**In-country Situation analysis #1**  
 July Belgrade  
 The MediLabSecure Situation Analysis (MESA) Study is a qualitative situational analysis involving human, animal and entomology sectors of vector borne disease surveillance. The first country involved was Serbia.

## 2017

**Introduction to the molecular analysis of relevant zoonotic pathogens workshop**  
 May Madrid  
 Acquisition of essential knowledge (theoretical and practical) on molecular analysis of relevant zoonotic pathogens, focusing on WNV and AIV.

**MosKeyTool**  
 May  
 Release of an online interactive identification key for mosquito species of the whole Euro-Mediterranean area. This comprehensive basis covers 128 mosquito species.

**Regional network meeting #2**  
 July Tunis  
 This event brought together MediLabSecure partners from 8 countries of North Africa and the Middle East to share their expertise and strengthen network interactions. It was an opportunity to particularly focus on Medical Entomology aspects of zoonotic diseases.

## 2018

**Tailored training on Sanger sequencing of arboviruses**  
 April Sarajevo  
 Acquisition of basic skills on Sanger sequencing of arboviruses, transfer of protocols and techniques, sequencing of determined arboviruses. Building and interpretation of a basic phylogenetic tree of a viral genome sequence.

**Strategic document**  
 May  
 Production of a strategic document on integrated surveillance of arboviruses in the Mediterranean and Black Sea regions, to facilitate the assessment of integrated surveillance systems and to enhance the operationalization of One Health strategies in national health policies and regional contexts.

**Global Conference**  
 June Paris  
 Restitution & discussion of MediLabSecure activities, involving all network members, international stakeholders and representatives of related projects and networks, to discuss project contribution to the sculpting of a collaborative community aiming at preparedness to zoonotic arboviruses & explore a way forward.

### External Quality Assessments

### Site Visits

**2015**  
 Nov. Turkey (🦋)  
 Georgia (🦠)

**2016**  
 Apr. Algeria (🦋, 🦟, 🦠)  
 May Morocco (🦋, 🦠, 🦟)  
 June Serbia (🦋)  
 Oct. Armenia (🦋, 🦟, 🦠, 🦋)

**2017**  
 May Lebanon (🦋, 🦠, 🦟, 🦋)  
 July Tunisia (🦋)  
 Aug. **Rift Valley fever viral genome detection** (🦠)

**2018**  
 Apr. Bosnia & Herzegovina (🦋)  
 May FYRepublic of Macedonia (🦋)  
 Oct. Egypt (🦋, 🦟, 🦠)  
 Dec. **Zika, Chikungunya, Dengue, West Nile, MERS-CoV viral genome detection** (🦠)

**Mosquito vectors of arboviruses workshop #1**  
 June Novi Sad  
 Enabling laboratories to develop capacity building in mosquito vector of arboviruses (sampling, determination, surveillance) and to enhance regional cooperation (Balkan region).

**Mosquito vectors of arboviruses workshop #2**  
 September Ankara  
 Enabling laboratories to develop capacity building in mosquito vector of arboviruses (sampling, determination, surveillance) and to enhance regional cooperation (Middle East and Black Sea region).

**Technical workshop on Public Health #1**  
 December Paris  
 Multisectorial exercise on West Nile fever risk assessment, designed to foster small group discussion on surveillance integration in the framework of One Health.

**Mid-term project meeting**  
 December Paris  
 Brought together all MediLabSecure partner countries representatives and other EU-funded projects and relevant stakeholders to share their expertise and strengthen network interactions.

**In-country Situation analysis #2**  
 October Tunis  
 Second in country MediLabSecure Situation Analysis (MESA) visit, to Tunisia.

**Biorisk management & transport of infectious substances**  
 November Belgrade  
 Training for the international shipping of infectious substances & capacity building in biorisk management, as well as to enhance exchanges within the human virology and the medical entomology networks.

**Technical workshop on Public Health #2**  
 November Belgrade  
 Multisectorial exercise on Crimean-Congo hemorrhagic fever rapid risk assessment, designed to foster small group discussion on surveillance integration in the framework of One Health.

**Regional network meeting #1**  
 November Belgrade  
 This event held as part of the One Health Day 2016 brought together MediLabSecure partners from the Balkans and Black Sea regions to share their expertise and strengthen network interactions, with special session on medical entomology.

**Technical workshop on Public Health #3**  
 July Tunis  
 Multisectorial exercise on Rift Valley fever risk assessment, designed to foster small group discussion on surveillance integration in the framework of One Health.

**Workshop on Molecular Analysis and phylogenetic**  
 November Paris  
 Acquisition of essential theoretical and hands-on knowledge on molecular analysis of relevant zoonotic pathogens, with a One Health perspective.

**Scientific-Technical meeting of the animal virology network**  
 November Madrid  
 To present and discuss the results of the EQAs on WNV and RVFV carried out. Additionally, scientific-technical session will be included, as a sort of "mini symposium".

**Entomological surveillance systems harmonization guidelines**  
 September Paris  
 Production of a roadmap toward the harmonization of entomological surveillance systems in the Mediterranean area regarding the risks of mosquito borne viruses transmission.

**Field workshop on mosquito surveillance and control**  
 October Montpellier  
 Presentation of the main operational activities implemented in the South of France for mosquito surveillance and control and of the research activities in medical entomology conducted at IRD and visit of the related facilities.

**Advanced molecular analysis and phylogenetics workshop**  
 October Cairo  
 This workshop, co-organized between 3 working groups and involving participants from different sectors, had the objective of acquiring knowledge on advanced molecular analysis techniques in the field of phylogenetics.

**One Health Conference**  
 November Rome  
 Strengthening One Health implementation for the prevention and control of arbovirus infections in the Mediterranean and Sahel Regions, through the coordination and collaboration between human and veterinarian public health officers.

**Surveillance of emerging arboviruses workshop**  
 December Teramo  
 Analysis of the gaps and needs at national and regional levels, for the proper implementation of integrated surveillance systems for arboviruses in the countries belonging to the MediLabSecure Network under a "One Health" approach. Event organized by IZSAM.

### Publications in scientific peer-reviewed journals

- 2 papers on arboviruses and their vectors
- 2 papers on the added value of the MediLabSecure network to enhance preparedness to arboviral threats
- 4 papers on integrated surveillance of arboviral diseases in the Mediterranean and Black Sea regions