



Workshop on *Innovative vector control strategies against Aedes sp.* **Hosted by the IRD at Massane Spa & Golf Hotel Montpellier, 8-11 April 2019**

**Current best practices and guidelines for SIT application - organization-specific requirements and implement critical procedures to ensure field trial execution and efficacy.**

This highly-interactive, 3.5-day workshop will include panel discussions to share experiences and group work to streamline the consensus guideline, step-by-step, of SIT development process, and pilot trials (implementation and evaluation).

## Workshop agenda

### MONDAY, 8 April 2019

09:00 – 9:20 **Louis Clement GOUAGNA, PhD**

Introduction and welcome

Information and logistics

*Zikalliance subtask on Innovative strategies for vector control, workshop objectives and expected results*

09:20 - 09:40 **Florence FOUQUE, PhD**

*Development of a Guidance Framework on testing and deploying the Sterile Insect Technique against mosquito-borne diseases: a joint IAEA, NTD/WHO and TDR/WHO initiative.*

09:40 - 10:00 **Jeremy BOUYER, PhD**

*Current and future guidelines for SIT practices against mosquitoes, the IAEA perspective*

**10:00 - 10:20 COFFEE /TEA BREAK**

10:20 - 10:40 **David ROIZ, PhD**

Evaluation of Aedes Control strategies

10:40 - 12:30 **Panel discussions (Chair: Clelia OLIVA, PhD)**

- Brainstorming on the decision tree and need-based planning framework for SIT testing / Group assignment

**12:30 - 14:00 LUNCH**

14:00 - 18:00 **Selection of Working Groups for each of the 4 SIT components**

Separate group work on research required, practical techniques, step-by-step, to streamline SIT development, successful implementation and evaluation.

**19:30 - GROUP DINNER**

## TUESDAY, 9 Avril 2019

9:00 – 10:30 **Panel discussions**

Debriefing on the report of group work on the consensus framework on each SIT components

10:30 - 10:45 **COFFEE/TEA BREAK**

10:45 – 12:00 **Panel discussions**

Debriefing on the report of group work on the consensus framework on each SIT components (Continuation), identification of areas for follow-up

12:00 - 13:30 **LUNCH**

13:30 - 16:30 **Group work** - Drafting of the respective best practices guidelines by groups

17:00 - **SOCIAL ACTIVITY \*GOLF TRAINING SESSION\* & DINNER**

## WEDNESDAY, 10 April 2019

9:00 – 10:30 **Panel discussions**

Panel Discussions: optimizing and adopting the decision tree

10:30 - 10:45 **COFFEE/TEA BREAK**

10:45 – 12:00 **Panel discussions**

Panel Discussions: optimizing and adopting the decision tree (Continuation)

12:00 - 13:30 **LUNCH**

13:30 - 16:30 **Group work**

Drafting of the review (intro – conclusion – general recommendations)

17:00 - **SOCIAL ACTIVITY \*SPA\* & DINNER**

## Thursday, 11 April 2019

9:00 - 10:30 **Panel Discussions**

Presentations of the work done by each group on each SIT component

10:30 - 10:45 **COFFEE/TEA BREAK**

10:45 – 12:00 **Panel discussions**

Compilation of the consensus guidelines for the application of SIT to control vectors of arboviruses

12:00 - 12:45 **WRAP-UP AND ACTION ITEMS - CLOSURE & LUNCH**

## GROUP DISCUSSIONS – MAIN TOPICS

### G1 – Technical recommendations: Entomological indicators and metrics.

- Laboratory: rearing conditions, production levels, male QC, sexing and sterilization recommendations, GSS (challenge and current leads)
- Field: site selection, monitoring activities (kind of traps and distribution, stage targeted according to species diversity), MRR,...

### G2 – Pilot evaluation

- Requirements for field testing of SIT
- Entomological efficacy: minimum replication/traps, are randomized control trials suitable?
- Efficacy end-points (considerations of lab and field testing)
- Cost-efficiency: what should be taken into consideration? Operational cost projection from pilot trials
- Ecological impact: preliminary thoughts on potential measurements of the effect on biodiversity due to (i) the massive release of sterile male mosquitoes, (ii) the reduction of insecticides, (iii) the reduction of the targeted population in case of local sustained elimination

### G3 –Integrated SIT-Vector Management package

- Global IVM policy recommendations for the Health authorities: What is the ideal SIT-based IVM package?
- Integration scenarios of compatible tools for SIT-based strategy against the targeted species and the sympatric mosquito species
- How can it be tested in a pilot phase?
- Cooperation of various stakeholders (role of local community, authorities,...)

### G4 – Public engagement

- Ethics
- Regulatory framework and pathway
- Community engagement processes (who, when, how?)

### Others...

## LIST OF PARTICIPANTS

NAMES	COUNTRY	NAMES	COUNTRY
BALDET, Thierry	FRANCE	FOUQUE, Florence	SUITZERLAND
BELLINI, Romeo	ITALY	GEIER, Martin	GERMANY
BENEDICT, Mark	USA	GOUAGNA, Louis Clément	FRANCE
BOSSIN, Hervé	F. POLYNESIA	MICHAELAKIS, Antonios	GREECE
BOUYER, Jérémy	AUSTRIA	OLIVA, Clélia	FRANCE
COLLINS, Tilly	UK	ROIZ, David	FRANCE
CORBEL, Vincent	FRANCE	SIMARD, Frédéric	FRANCE
FACCHINELLI, Luca	ITALY/UK	TUR LAHIGUERA	SPAIN