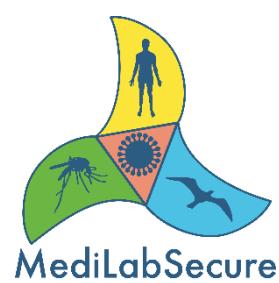


1st Symposium on "Research and Innovation for the control of vectors of emerging arboviruses»

Montpellier-Agropolis
14th February 2023



Organised by



1st Symposium on “Research and Innovation for the control of vectors of emerging arboviruses”

Agropolis International - Montpellier
14 February 2023



General Information

How to Access?

- Getting to Agropolis International by public transport : tramway + shuttle



- Tram line 1 to "Universités des Sciences et Lettres" station
[See schedule](#)
- Shuttle "La Navette A or B" from "Universités des Sciences et Lettres" station to the "Agropolis" stop
[Schedule Shuttle A](#)
[Schedule Shuttle B](#)

From "La Comédie", take the Tram Line 1 (direction "Mossone"), stop at the "Universités des Sciences et Lettres" station, then take the shuttle "La Navette A" or "La Navette B" to the "Agropolis" stop.

- Transportation by Taxi

TAXI BLEU DU MIDI
Tel: +33 4 67 03 20 00
contact@taxibleudumidi.fr



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Context of the symposium

Background

Over the past 10 years, arboviral diseases, such as dengue, Zika, chikungunya and yellow fever, have (re)emerged with increasing prevalence and severity. In the absence of effective vaccines and treatments, preventing these diseases at the global scale continues to depend largely on controlling mosquito vector populations, interrupting human–vector contact or both. Unfortunately, the recent resurgence of Aedes transmitted arboviral diseases worldwide including in Europe highlights the limitations of current vector control to prevent epidemics and to reduce the incidence of diseases. Consequently, new, affordable, scalable and community-based vector control measures are urgently needed to prevent the introduction, spread and establishment of Aedes-borne diseases and contribute to better health and human well-being.

Objective of the symposium

This symposium organised by INOVEC and its partners aims to **review the performances of new tools, technologies and strategies for the control of invasive vectors, identify gaps, and promote collaborative research and exchanges across sectors and disciplines**. The symposium aims also to foster private-public partnership for creating novel pathways for product development.

Expected outcomes

The symposium is expected to enhance our knowledge and understanding on the potential of new diagnostic tools, Vector Control Tools and Citizen science-based approaches for the surveillance and control of invasive mosquito vectors. The symposium also aims to create a “mutual culture” of research & innovation in vector control by stimulating new connections between companies, biologists and social scientists.

Targeted audience

The scientific community, public health sectors, stakeholders, donor agencies, industries, international organisations involved in the surveillance and control of mosquito-borne diseases.



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Organisation committee

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Link to access the streaming:

<https://vimeo.com/event/2843132>



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The INOVEC project

This symposium is a side event of the **HORIZON-EUROPE-MCSA INOVEC** project (2023-2027) that aims to enhance and promote scientific and technical knowledge on the surveillance and control of invasive *Aedes* mosquitoes by gathering a large, multidisciplinary and cross-sectoral pan European network of partners.

The InoVEC project aims to **promote cross sectoral, multidisciplinary and international collaborations to standardise, optimise and promote innovative approaches, tools, and technologies** for the surveillance and control of mosquito vectors of emerging arboviruses in Europe and beyond, and improve their dissemination to the vector control community.

InoVEC gathers 21 partners specialised in vector research and product development in Europe, Africa and Brazil to stimulate Research & innovation, fill knowledge gaps, enhance research effectiveness, promote carrier development, reinforce capacities, and ensure better coordination and integrated actions across sectors. The novelty of the InoVEC consortium is to **raise awareness of policy makers** and participate in the innovation potential improvement at the European and global level.

If you want more information about INOVEC, please contact inovec.office@ird.fr

Partners





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Scientific programme

Tuesday 14 February, 2022
- Agropolis International-

08:30-09:00 Registration

09:00-09:10 Welcome notes

Welcome address from the French National Research Institute for Sustainable Development (IRD)

Florence Morineau & Frédéric Simard (IRD), France

Welcome address from the Organisers

Anne Poinsignon & Vincent Corbel (IRD), France

09:10-10:40 Aedes borne diseases: Challenges, Prevention and Control

Chair persons Florence Fournet & Raman Velayudhan

09:10-09:25 The WHO Global Vector Control responses for preventing vector-borne diseases: review of progress Raman Velayudhan, WHO-NTD, Switzerland

09:25-09:40 Global spread of invasive mosquito vectors in Europe Moritz UG Kraemer, University of Oxford, UK

09:40-09:55 Insecticide resistance in major arbovirus vectors: status, challenges and prospects Jean-Philippe David, CNRS, France

09:55-10:10 Portfolio of innovative vector control tools Mathias Mondy, IVCC, UK

10:10-10:25 Contribution of social sciences in vector control Florence Fournet, IRD, France

10:25-10:40 Discussion

10:40-11:00 Coffee break



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11:00-12:30

Initiatives & networks for strengthening the surveillance and control of vectors and vector-borne diseases

Chair persons: *Florence Fouque & Didier Fontenille*

11:00-11:15

Vectopole Sud: A network of research infrastructures on emerging disease vectors and crop pests

Fabrice Chandre, IRD, France

11:15-11:30

Défi Clé RIVOC: Infectious risks and vectors in Occitania

Didier Fontenille, IRD, France

11:30-11:45

Arbo-France: a French network for the study of human and animal arboviruses

Bernadette Murgue, ARBO-France, France

11:45-12:00

Initiatives from the WHO-Special Programme for Research and Training in Tropical Diseases (TDR)

Florence Fouque, WHO-TDR, Switzerland

12:00-12:15

The Worldwide Insecticide resistance Network (**WIN**) & the Research and INNOvation Partnership for enhancing the surveillance and control of mosquito VECTors of emerging arboviruses (**INOVEC**)

Vincent Corbel, IRD-FIOCRUZ, Brazil

12:15-12:30

Discussion

12:30-14:00

Lunch – Group photo

14:00-15:30

Innovations in mosquito control and surveillance: Part 1

Chair persons: *Anne Poinsignon & Jérémie Bouyer*

14:00-14:15

Citizen sciences to investigate and control disease-carrying mosquitoes

Frederic Bartumeus, CSIC, Spain

14:15-14:30

Molecular Diagnostics for evidence based mosquito control and Insecticide Resistance Management

John Vontas, FORTH, Greece

14:30-14:45

Review of Sterile Insect Technique (SIT) trials against *Aedes* mosquitoes

Jérémie Bouyer, IAEA, Austria





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14:45-15:00	Use of densovirus as potential biological control agents	Aurélie Perrin, University of Montpellier, France
15:00-15:15	RNAi-based bioinsecticides for <i>Aedes</i> control	Paulo Ribolla, UNESP, Brazil
15:15-15:30	Challenges and prospects for the use of synergistic agents in mosquito control	Bruno Lapiède, University of Angers, France
15:30-15:45	Discussion	
15:45-16:00	Coffee break	

16:00-18:00 Innovations in mosquito control and surveillance: Part 2

Chair persons: *Melanie Nolden & Fabrice Chandre*

16:00-16:10	Intelligent traps for real time surveillance of <i>Aedes</i> mosquitoes	Joao Encarnaçao, IRIDEON, Spain
16:10-16:20	New and repurposed insecticides for mosquito control	Melanie Nolden, ENVU, Germany
16:20-16:30	Long lasting formulations of Ivermectine in the fight against vectors	Christophe Roberge, MEDINCELL, France
16:30-16:40	Intelligent incorporated treated fabrics for enhancing personal protection against mosquito bites	Jean Christophe Gnonlonfoun, JMT-KAIRSTONE, France
16:40-16:50	The potential of drones for realising sterilised <i>Aedes</i> mosquitoes	Rafael Argilés, MAPA Technology, Spain
16:50-17:00	Latest development in mass trapping tools for mosquito control	Andreas Rose, BIOGENT, Germany
17:00-17:15	Discussion	

17:15-18:00 General discussion and conclusion

18:00-21:00 **Cocktail at Agropolis International**
End of the symposium





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