International workshop on “Insecticide resistance in vectors of emerging arboviruses: challenge and prospects for vector control”

Rio de Janeiro, BRAZIL
From 05 – 07 December 2016

Context
Arboviruses transmitted by mosquitoes represent a major threat to public health worldwide. The emergence of dengue is recognized as a major concern by the WHO with more than 40% of the world's population at risk. Furthermore, Zika virus has spread to more than 30 countries in the Americas and the Caribbean, affecting over 1.5 million people. The control of Aedes mosquito populations by the use of insecticides still remain the first line of defense against arboviruses. Unfortunately, decades of efforts failed to consistently control Aedes mosquito populations and/or to curtail the cycle of epidemics. The use of the same insecticides for more than 40 years coupled with the extensive traffic of Aedes eggs has also resulted in the worldwide spread of insecticide resistance. Resistance is now recognized by the WHO as an important factor threatening arboviral disease control and there is an urgent need to identify the countries/regions where resistance could challenge vector control interventions.

Aim of the workshop
This international workshop will serve as a forum for addressing the challenges and priorities for the management of insecticide resistance and the control of vectors of emerging arboviruses worldwide. It will promote exchanges of ideas among scientist, stakeholder, industry, donor agencies and international institutions to provide national authorities with recommendations for the improvement of insecticide resistance surveillance and deployment of alternative vector control tools. This workshop is supported by the WHO Research & Training program on Tropical Diseases (TDR) and the Department of Neglected Tropical Diseases (NTDs) through the Worldwide Insecticide resistance Network (WIN) (http://win-network.ird.fr).

Objectives of the workshop
- To address the public health consequences of the (re) emergence of arbovirus diseases and spread of their vectors
- To share knowledge and information on distribution, mechanisms and impact of insecticide resistance in mosquito vectors.
- To review new tools and strategies for the control of insecticide-resistant arbovirus vectors.
➢ To promote private-public partnership for the development of new insecticide products for vector control.
➢ To provide a framework for the development of strategic plans for insecticide resistance management.

Expected outcomes

The workshop is expected to raise awareness and mobilize resources for strengthening the capacity of national authorities in resistance monitoring and facilitate basic and translational research with the scope to improve vector control and management of insecticide resistance.

Targeted audience

The scientific community (scientists, students, academia), public health sectors, stakeholder, donor agencies, industry, international organization involved in control of vector borne diseases.

Contact & Information

If you're interested in participating to the workshop or if you need more information, please contact the WIN project office.

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The WIN is supported by the WHO-TDR program
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The WIN is supported by the WHO-TDR program
More information at http://win-network.ird.fr/