



2nd WIN International Conference on

“Integrated approaches and innovative tools for combating insecticide resistance in arbovirus vectors”

October 01-03th, 2018

Grand Copthorne Waterfront Hotel

Singapore

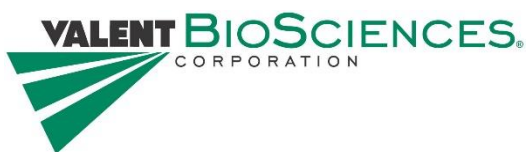
Organizers



Partners



Platinum Sponsors



Gold Sponsors





2nd WIN International Conference on “Integrated approaches and innovative tools for combating insecticide resistance in arbovirus vectors”

01- 03 October 2018, Grand Copthorne Waterfront hotel, Singapore

Scientific programme

Monday October 1st, 2018
- Grand Copthorne Waterfront hotel-

08:15-09:00 Registration

09:00-09:30 Welcome notes

Room: Grand Ballroom, level 4

09:00-09:05 Welcome address from the National Environmental Agency

Mr. Derek Ho, Director-General Public Health, NEA, Republic of Singapore

09:05-09:10 Welcome address from the French Ministry of Foreign Affairs in Singapore

Mr. Marc Abensour, Ambassador of France to the Republic of Singapore

09:10-09:15 Welcome address from the DUKE-NUS medical school

Prof Patrick Casey, Senior Vice Dean, Research, DUKE, NUS, Republic of Singapore

09:15-09:20 Welcome address from the Department of Control of Neglected Tropical Diseases (NTD), World Health Organization

Dr. Raman Velayudhan, Coordinator, WHO-NTD, Switzerland

09:20-09:25 Welcome address from the The Special Programme for Research and Training in Tropical Diseases (TDR), World Health Organization

Dr. Florence Fouque, Team Leader on vectors, WHO-TDR Switzerland

09:25-09:30 Objectives of the conference

Dr. Julien Pompom, Duke-NUS Medical School, Republic of Singapore

Dr. Vincent Corbel, Institut de Recherche pour le Développement, France



2nd WIN International Conference on “Integrated approaches and innovative tools for combating insecticide resistance in arbovirus vectors”

01- 03 October 2018, Grand Copthorne Waterfront hotel, Singapore

Monday October 1st, 2018 (continued)

09:30-12:30 Scientific Session 1: Challenges and prospects for the control of emerging arboviral diseases

Room: Grand Ballroom, level 4

Chair persons: Dr. Raman Velayudhan (NTD) / Dr. Florence Fouque (TDR)

- | | | |
|-------------|---|---|
| 09:30-09:50 | Public Health Priorities for Prevention and Control of Epidemic Arboviral Diseases | Dr. Duane Gubler, Duke-NUS Medical School, Singapore |
| 09:50-10:10 | The WHO global vector control response to reduce the burden of vector borne diseases | Dr. Raman Velayudhan, World health Organization, NTD, Switzerland |
| 10:10-10:30 | The use of Wolbachia to disrupt dengue, Zika and chikungunya transmission by <i>Aedes aegypti</i> | Dr. Scott O'Neill, World Mosquito Program, Vietnam |
| 10:30-10:45 | Discussions | |

10:45-11:15 *Coffee break & Poster session*

Chair persons: Assoc. Prof. Lee Ching Ng (NEA) / Dr. Greg Devine (QIMR)

- | | | |
|-------------|---|---|
| 11:15-11:35 | Arbovirus vectors in SEA: a plea against ignorance | Dr. Didier Fontenille, Institut Pasteur, Cambodia |
| 11:35-11:55 | Project Wolbachia Singapore – Exploring a novel tool for <i>Aedes</i> control | Assoc. Prof. Lee Ching Ng, National Environment Agency, Singapore |
| 11:55-12:15 | Detection of Resistance in Insects Vectors of Human Disease: The Road Forward | Prof. Jeffrey Scott, Cornell University, USA |
| 12:15-12:30 | Discussions | |

12:30-14:00 *Lunch (Ballroom 2) - Group photo*



2nd WIN International Conference on “Integrated approaches and innovative tools for combating insecticide resistance in arbovirus vectors”

01- 03 October 2018, Grand Copthorne Waterfront hotel, Singapore

Monday October 1st, 2018 (continued)

14:00-18:00 Scientific Session 2: Insecticide resistance, operational consequences and options for management

Room: Grand Ballroom, level 4

Chair persons: Dr. Fabrice Chandre (IRD) / Dr. Shinji Kasai (NIID)

14:00-14:15	Insecticide susceptibility status and activity of detoxifying enzymes in larvae and adult <i>Aedes albopictus</i> from six regions of Madagascar	Dr. Fara N. Raharimalala, Institut Pasteur, Madagascar
14:15-14:30	Insecticide resistance status of arbovirus vectors, <i>Aedes aegypti</i> and <i>Ae. albopictus</i> in Laos: distribution, levels and mechanisms	Dr. Sébastien Marcombe, Institut Pasteur, Lao PDR
14:30-14:45	Alarming <i>Aedes aegypti</i> resistance in Cambodia: Skirting resistance with an integrated vector management in an entomological / epidemiological approach	Dr. Sébastien Boyer, Institut Pasteur, Cambodia
14:45-15:00	The last frontier: origin and insecticide susceptibility of a recently introduced <i>Aedes albopictus</i> population from Portugal	Dr. João Pinto, Instituto de Higiene e Medicina Tropical, Portugal
15:00-15:15	Insecticide Resistance Monitoring in <i>Aedes aegypti</i> from Brazil after Zika outbreak	Dr. Ademir Martins, FIOCRUZ, Brasil
15:15-15:30	Systematizing insecticide resistance testing for <i>Aedes</i> spp. in Latin America: What will it take?	Dr. Nelson Grisales, Abt associates, USA
15:30-15:45	Discussions	
15:45-16:15	<i>Coffee break & Poster session</i>	
Chair persons: Dr. Julien Pompon (DUKE-NUS) / Dr. Jean-Philippe David (CNRS)		
16:15-16:30	A geographical perspective on insecticide resistance and mechanisms in the major <i>Aedes</i> vectors of arboviruses infecting humans	Dr. David Weetman, Liverpool School of Tropical Medicine, UK
16:30-16:45	Novel DNA markers of insecticide resistance in Arbovirus vectors for improving resistance monitoring and management	Dr. Jean-Philippe David, Centre National de la Recherche Scientifique, France



2nd WIN International Conference on “Integrated approaches and innovative tools for combating insecticide resistance in arbovirus vectors”

01- 03 October 2018, Grand Copthorne Waterfront hotel, Singapore

Monday October 1st, 2018 (continued)

16:45-17:00	First detection of a Vssc allele V1016G in <i>Aedes albopictus</i> collected from Asia and Europe: A new emerging threat to controlling arboviral diseases	Dr. Shinji Kasai , National Institute of Infectious Diseases, Japan
17:00-17:15	Insecticide resistance and its operational implications for dengue control on the Indonesian island of Bali	Mrs Erly Sintya Dewi , Universitas Warmadewa, Indonesia
17:15-17:30	Pyrethroid-resistant mosquitoes compromise Australia’s aircraft disinsection procedures	Dr. Gregor Devine , QIMR Berghofer Medical Research Institute, Australia
17:30-17:45	Management of insecticide resistance in arbovirus mosquito vectors: advances and challenges	Dr. Fabrice Chandre , Institut de Recherche pour le Développement, France
17:45-18:00	Discussions	

Tuesday October 2nd, 2018 - Grand Copthorne Waterfront hotel -

09:00-12:30 **Scientific Session 3: New technologies and strategies for the control of invasive or insecticide-resistant vectors**

Room: Grand Ballroom, level 4

Chair persons: Prof. Hassan Vatandoost (TUMS) / Dr. Joao Pinto (IHTM)

09:00-09:15	Experimental evaluation of the impact of household aerosolized insecticides on pyrethroid resistant <i>Aedes aegypti</i>	Dr. Gabriela Gonzalez-Olivera , Universidad Autónoma de Yucatán, Mexico
09:15-09:30	Neighbors help neighbors control urban mosquitoes	Prof. Dina Fonseca , Rutgers University, USA
09:30-09:45	Gravitraps as a surveillance and control tool	Dr. Chee-Seng Chong , National Environment Agency, Singapore
09:45-10:00	Promising new tools to fight <i>Aedes</i> mosquitoes in Thailand	Dr. Alongkot Ponlawat , USAMD-AFRIMS, Thailand



2nd WIN International Conference on “Integrated approaches and innovative tools for combating insecticide resistance in arbovirus vectors”

01- 03 October 2018, Grand Copthorne Waterfront hotel, Singapore

Tuesday October 2nd, 2018 (continued)

10:00-10:15 Integrated *Aedes* management (IAM) for the control of *Aedes*-borne diseases

Dr. David Roiz, Institut de Recherche pour le Développement, France

10:15-10:30 Discussion

10:30-11:00 *Coffee break & Poster session*

Chair persons: Dr. John Grieco (NDU) / Dr. Dina Fonseca (RU)

11:00-11:15 Alternative Strategies for Arbovirus Control

Dr. Nicole Achee, Notre Dame U., USA

11:15-11:30 Overview of Auto-dissemination technology for mosquito controls

Dr. Devi Shankar Suman, Ministry of Environment, India

11:30-11:45 Targeted Indoor Residual Spraying (TIRS) for the control of *Aedes aegypti*

Dr. Gregor Devine, QIMR Berghofer Medical Research Institute, Australia

11:45-12:00 New developments in the use of the Sterile Insect Technique (SIT)

Dr. David Damiens, IRD-CYROI, La Réunion, France

12:00-12:15 Gene editing population sex determination pathway for vector control

Dr. Kyrou Kyros, Imperial College, UK

12:15-12:30 Discussion

12:30-14:00 *Lunch (Ballroom 2)*

12:30-14:00 Side-event: Perspectives for the development of an insecticide testing laboratory (ITL) at Singapore

Private session (on invitation only)

Room: Toucan



2nd WIN International Conference on “Integrated approaches and innovative tools for combating insecticide resistance in arbovirus vectors”

01- 03 October 2018, Grand Copthorne Waterfront hotel, Singapore

Tuesday October 2nd, 2018 (continued)

14:00-18:00 Session 4: Public / private initiatives to foster innovation in public health

Room: Grand Ballroom, level 4

Chair persons: Dr. K. Raghavendra (NIMR) / Dr. W. Juntarajumnong (KU)

14:00-14:15	Filling the resistance management gap: the power of intrinsic resistance management in <i>Bacillus thuringiensis israelensis</i> strain AM65-52 protects public health with effective control of organophosphate and pyrethroid resistant vectors	Mr. Peter DeChant, Valent Bioscience, USA
14:15-14:30	Fludora Co-Max®: A new space spray combination for mosquito resistance management programs.	Mr. Jason Nash, Bayer, Singapore
14:30-14:45	Effective <i>Aedes</i> Control based on resting behaviour & New IRS Tools	Mr. Iñigo Garmendia, Goizper spraying, Spain
14:45-15:00	Innovative formulation for long lasting residual insecticides	Mr. Siao Jing Sam, Syngenta, Singapore
15:00-15:15	Managing <i>Aedes</i> spp. with push-pull tactics: how non-repellent chemistries may mitigate behavior and vectorial capacities	Mr. James Austin, BASF, USA
15:15-15:30	Friendly™ mosquitoes for efficient and safe vector control	Dr. Kevin Gorman, Oxitec, UK
15:30-15:45	Discussion	

15:45-16:15 *Coffee break & Poster session*

Chair persons: Dr. Dominic Schuler (WHO-PQT) / Dr. Vincent Corbel (IRD)

16:15-16:30	Innovation to Impact: Update on progress and future priorities	Dr. Angus Spiers, I2I, UK
16:30-16:45	Overview of the prequalification of vector control products	Mr. Dominic Schuler, WHO-PQT, Switzerland
16:45-17:00	Building a vector control toolbox for Integrated Vector Management (IVM)	Dr. Nick Hamon, Innovative Vector Control Consortium, UK



2nd WIN International Conference on “Integrated approaches and innovative tools for combating insecticide resistance in arbovirus vectors”

01- 03 October 2018, Grand Copthorne Waterfront hotel, Singapore

Tuesday October 2nd, 2018 (continued)

17:00-17:15	Legislative framework for vector control: the situation for European countries, including overseas territories	Dr. Florence Fouque, WHO-TDR, Switzerland
17:30-17:45	VectorBase.org's PopBioMap: An online resource for insecticide resistance data	Dr. Samuel Rund, Notre-Dame University, USA
17:45-18:00	Toward a global partnership for the control of insecticide resistant Arbovirus vectors: The WIN initiative	Dr. Vincent Corbel, IRD, France
17:45-18:00	Discussion	
19:00 -22:30	Cocktail & dinner (at Hotel Promenade)	

Wednesday October 3rd, 2018 - Grand Copthorne Waterfront hotel -

09:00-12:30 Round tables

09:00-10:00	Round table 1: Are SDGs for dengue and other arboviral diseases achievable with existing vector control tools? Room: Grand Ballroom, level 4	All members
	Chairman: Dr. Raman Velayudhan, WHO-NTD, Switzerland Rapporteur: Dr. Nicole Achee, NDU, USA	
10:00-11:00	Round table 2: Insecticide resistance: a trick or a real threat for vector control? Where's the proof that it's having an operational impact? Room: Grand Ballroom, level 4	All members
	Chairman: Dr. Greg Devine, QIMR, Australia Rapporteur: Dr. Dave Weetman, LSTM, UK	
11:00-11:45	Coffee break	
11:45-12:15	Conclusions / Recommendations	Rapporteurs of each round table



2nd WIN International Conference on “Integrated approaches and innovative tools for combating insecticide resistance in arbovirus vectors”

01- 03 October 2018, Grand Copthorne Waterfront hotel, Singapore

Wednesday October 3rd, 2018 (continued)

12:15-12:30 Official closure of the conference

Dr. Florence Fouque, WHO-TDR, Switzerland

12:30-14:00 **Lunch (Ballroom 2)**

14:00-18:00 WIN internal meeting

Room: Canary

14:00-17:00 WIN General Assembly

WIN members

17:00-18:00 WIN steering committee meeting

WIN members

