

6th international conference on *Aedes albopictus*: The Asian tiger mosquito
 28-29 March 2024, Himawari Hotel Apartments
 Phnom Penh, Cambodia

Thursday 28 March 2024

8.00 am - 9.00 am		Opening session	
7.30 am		- Registration	
		- Arrival of Honorable Guests	
8.00 am – 8.30 am	Opening Ceremony		
	8.00 am – 8.10 am	- Welcome Remarks by Prof. André SPIEGEL, Director of Institut Pasteur du Cambodge	
	8.10 am – 8.20 am	- Opening Speech by H.E. Mr. Jacques PELLET, Ambassador of France to Cambodia	
	8.20 am – 8.30 am	- Opening Speech by H.E. Prof. CHHEANG Ra, Minister of Health, Cambodia	
8.30 am – 9.00 am	Introductory talk	Sébastien BOYER	

9.00 am – 10.00 am		Group Photo and Coffee Break	
9.00 am – 9.15 am	Official Group Photo		
9.15 am – 10.00 am	Coffee Break and coordination		

10.00 am -12.00pm		Session 1. <i>Aedes albopictus</i> in Asia	Chairs : Carine Ngoagouni & Sebastien Boyer
10.00 am	Upik Kesumawati Hadi	<i>Aedes albopictus</i> , Vector of Chikungunya and Dengue Fever in Indonesia: A Case Study in Tangerang District	
10.20 am	Nguyen Van Dung	Spatiotemporal distribution, resting behavior and insecticide resistance status of <i>Ae. albopictus</i> in Ha Noi, Vietnam	
10.40 am	Veasna Duong	Understanding Arbovirus Dynamics in Cambodia using Vector Competence Experiment	
11.00 am	Sébastien Marcombe	Research on <i>Aedes albopictus</i> in Laos: bionomics, population genetics and insecticide resistance distribution	
11.20 am	Jiyeong Shin	Genetic Diversity of Dengue Vector <i>Aedes albopictus</i> Collected from South Korea, Japan, and Laos	
11.40 am	Xue-Li Zheng	Spatial geographic gene polymorphism of <i>Aedes albopictus</i> from China	

12.00 pm – 1.00 pm		Lunch Break	
12.00 pm -1.00 pm	Buffet at Himawari Hotel (Restaurant)		

1.00 pm 2.40 pm		Session 2. <i>Ae. albopictus</i> : biology and ecology	Chairs : Mariangela Bonizzoni & Christophe Paupy
1.00 pm	Judicaël Obame	The Asian Tiger Mosquito invasion story in forests of Central Africa: bioecological drivers and potential consequences in a One Health perspective	
1.20 pm	Colombine Bartholomee	How urban green infrastructures influence <i>Aedes albopictus</i> presence and abundance? A study in the city of Montpellier (South of France) in 2023.	
1.40 pm	Roberto Rosà	Forecasting the spatio-temporal dynamics of <i>Aedes albopictus</i> in southern Europe using a stacked machine learning model	

1.00 pm 2.40 pm	Session 2. <i>Ae. albopictus</i>: biology and ecology	Chairs : Mariangela Bonizzoni & Christophe Paupy
2.00 pm	Vincent Herbreteau	Ecological determinants of the spatiotemporal distribution of <i>Aedes</i> mosquitoes in Phnom Penh, Cambodia
2.20 pm	Anna-Bella Failloux	Climate change and transmission of chikungunya virus in the mosquito <i>Aedes albopictus</i>

2.40 pm – 3.10 pm	Coffee Break
2.40 pm – 3.10 pm	Coffee break at Himawari Hotel (Conference room)

3.10 pm - 5.10 pm	Session 2. <i>Ae. albopictus</i>: biology and ecology	Chairs: Anna-Bella Failloux & Xiao-guang Chen
3.10 pm	Carine Ngoagouni	<i>Aedes albopictus</i> in Central African Republic: what we known from 2010 to present?
3.30 pm	Mariangela Bonizzoni	Thermal Adaptation in <i>Aedes albopictus</i>
3.50 pm	Christophe Paupy	Assessment of arbovirus emergence risk associated with <i>Ae. albopictus</i> invasion in the forest ecosystem of Gabon based on vector competence study and viral screening
4.10 pm	Aihua Zheng	Gut symbiotic bacterium diversity modulates the Zika and dengue virus vector competence of <i>Aedes</i> mosquitos
4.30 pm	Zakaria Kambris	Effects of the Bacterial Flora on Gut Cell Renewal and Immunity in Local <i>Aedes albopictus</i> and <i>Culex Pipiens</i> Mosquitoes
4.50 pm	Xiaohong Zhou	Molecular mechanisms of photoperiodic diapause in <i>Aedes albopictus</i>

06.00 pm: Sunset cruise dinner

Friday 29 March 2024

8.30 am 10.10 am	Session 3. Vector control: challenges and innovations	Chairs: Alessandra della Torre & Sebastien Marcombe
8.30 am	Jeremy Bouyer	Pilot field trials of boosted Sterile Insect Technique against <i>Aedes</i> invasive species in Europe
8.50 am	Jeremie Gilles	Scaling Up the Wolbachia method to interrupt Dengue transmission - Addressing Challenges in Technology and Infrastructure transferable to <i>Aedes albopictus</i>
9.10 am	Kostas Bourtzis	Sterile insect technique (SIT) against <i>Aedes</i> species: from the laboratory to the field
9.30 am	George Dimopoulos	Engineering <i>Aedes</i> for arbovirus control
9.50 am	Dimitri Lavillette	Preparedness program on under-characterized alphaviruses

10.10 am - 10.40 am	Coffee Break
10.10 am – 10.40 am	Coffee break at Himawari Hotel (Conference room)

10.40 am - 11.40 am	Session 4. Vector control: Insecticide resistance	Chairs: Claire Garros & Sebastien Boyer
10.40 am	Shinji Kasai	Recent advances in the study of Knockdown resistance genes in pyrethroid resistant <i>Aedes albopictus</i>

10.40 am - 11.40 am	Session 4. Vector control: Insecticide resistance	Chairs: Claire Garros & Sebastien Boyer
11.00 am	Jean Philippe David	Unravelling the genetic bases of pyrethroid resistance in the tiger mosquito – An integrated genomic approach across multiple geographic regions
11.20 am	Guido Favia	Role of the microbiota in thermal adaptation and insecticide resistance in <i>Aedes albopictus</i> and in other Aedines

11.40 am - 12.00 pm	One minute presentation	
Poster Session	Chairs: Claire Garros & Sebastien Boyer	
Alexandre Cebeillac	How to characterize urban landscapes favorable to <i>Aedes</i> mosquitoes?	
Ali Bouattour	<i>Aedes albopictus</i> has been established in Tunisia: what risk?	
Annapaola Rizzoli	Ecological factors associated to the invasion by alien <i>Aedes</i> in the province of Trento, Italy.	
Antsa Rakotonirina	<i>Ae. albopictus</i> and the other <i>Aedes</i> species of the Scutellaris Group of the Asia Pacific region	
Bros Doeurk	<i>Aedes albopictus</i> in Cambodia	
Dongjing Zhang	Development of SIT for <i>Aedes albopictus</i> control in China: a preliminary field study	
Isabelle Kramer	Genomic profiling of climate adaptation in <i>Ae. aegypti</i> along an altitudinal gradient in Nepal	
Matilin Le Beux	MALDI-TOF and artificial intelligence: a new tool for arbovirus detection in mosquitoes	
Menaka Hapugoda	Development of SIT for integrated control of dengue vector mosquitoes in Sri Lanka	

12.00 pm – 1.00 pm	Lunch Break
12.00 pm -1.00 pm	Buffet at Himawari Hotel (Restaurant)

1.00 pm - 3.00 pm	Session 5. New surveillance strategies	Chairs: Sony Yean & Didier Fontenille
1.00 pm	Xiao-Guang Chen	Web-based Surveillance on Vector Mosquitoes, <i>Aedes albopictus</i> and <i>Culex quinquefasciatus</i>
1.20 pm	Eva Veronesi	The role of E4Warning on fighting the spread of dengue in Asia and its entry to Europe
1.40 pm	Alessandra della Torre	Novel approaches in the study and in the monitoring of invasive <i>Aedes</i> mosquitoes
2.00 pm	Hammami Pachka	Modeling the risk of emergence of <i>Aedes</i> -borne diseases to support vector surveillance and control
2.20 pm	Wim Van Bortel	Assessment of the ecology and behaviour of vector species <i>Aedes albopictus</i> and <i>Aedes aegypti</i> in Kinshasa, DRC and the implications for vector control.
2.40 pm	Giuliano Gasperi	Tracking the origin of the recent incursion of <i>Aedes albopictus</i> into Cyprus

3.00 pm – 3.30 pm	Coffee Break
3.00 pm – 3.30 pm	Coffee break at Himawari Hotel (Conference room)

3.30pm – 4.20 pm	Round table & Discussion	Chairs: Sebastien Boyer
3.30 pm – 4.20 pm	Research Opportunities Collaboration Main issues and objectives for Tiger mosquito research	
4.20 pm – 4.30 pm	Closing remarks	