

IXth EMCA CONFERENCE
Mosquito control without borders
La Rochelle, 10-14 March 2019

Programme

	- Sunday 10th March -
17:00-19:00	Registration
	- Monday 11th March -
08:00 – 09:30	Registration
09:30 - 10:30	Opening of the Conference Welcome Address Jan O. Lundström, President of EMCA Dominique Rabelle, President of EID ATLANTIQUE, board member of ADEGE
10:30 – 11:10	Keynote lecture Manual on prevention of establishment and control of mosquitoes of public health importance in the WHO European Region (with special reference to invasive mosquitoes) Elkhan Gasimov, World Health Organization Regional Office for Europe
11:10 – 11:40	Coffee break
	Session 1 (11:40 – 13:00) <i>Environmental prospects of mosquito control</i> Chaired by Sébastien Chouin & Jan Lundström
11:40 - 12:00	<i>Paper 1.1:</i> General overview on efficacy evaluation and environmental risk assessment of insecticides under European law using Bti as an example A. Kehler, C. Stang and C. Kuhn
12:00 - 12:20	<i>Paper 1.2:</i> Developing mosquito control in highly protected natural wetland environments J. O. Lundström and M. Schäfer
12:20 - 12:40	<i>Paper 1.3:</i> Assessment of an ambitious environmental policy B. Frances, A. Marie, R. Tounsi, D. Gindre, D. Moulis and C. Lagneau
12:40 – 13:00	<i>Paper 1.4:</i> Lessons learned from 8 years of biological mosquito control with BTI in a borderline wetland in Austria H. Jerrentrup
13:00 - 14:30	Lunch
	Session 2 (14:30 - 16:10) <i>Well-known and novel challenges in mosquito surveillance and control</i> Chaired by Eleonora Flacio & Andrea Drago
14:30 - 14:50	<i>Paper 2.1:</i> EID Atlantique, up and down of 50 years of mosquito control in western France J. De Maupeou, S. Chouin and M. Marjolet

14:50 – 15:10	<i>Paper 2.2:</i> Control of adult mosquitoes and effects on flower-visiting insects in urban green areas D. Corcos, L. Mazzon, P. Cerretti, M. Mei, E. Giussani, A. Drago and L. Marini
15:10 – 15:30	<i>Paper 2.3:</i> Is <i>Aedes sticticus</i> a new invasive species in western France? S. Chouin , J. De Maupeou, B. Le Hunsec and C. Courtin
15:30 – 15:50	<i>Paper 2.4:</i> Coexistence in urban breeding sites among <i>Culex pipiens</i> , <i>Culiseta longiareolata</i> and <i>Aedes albopictus</i> in the Castellón province (East of Spain) J. Herrezuelo-Antolín , D. López-Peña, J.V. Falcó-Garí and R. Jiménez-Peydró
15:50 – 16:10	<i>Paper 2.5:</i> Capacity building for the entomological surveillance in the Mediterranean area: MediLabSecure outcomes and follow-up M. Picard and V. Robert
16:10 – 16:40	Coffee break
16:40 – 18:00	Poster session
18:00 – 19:30	EMCA Board meeting
19:30 – 21:30	Welcome cocktail
- Tuesday 12th March -	
Session 3 (09:00 - 10:40)	
<i>Achievements in mosquito surveillance and monitoring</i>	
Chaired by Mihaela Kavran & Francis Schaffner	
09:00 - 09:20	<i>Paper 3.1:</i> A new integrated system for risk-based surveillance of invasive mosquito <i>Aedes albopictus</i> in Switzerland D. Ravasi, M. P. Antonovic, L. Azzimonti, M. Cannata, A. Danani, G. Del Rio, L. Engeler, V. Guidi, D. Huber, F. Mangili, A. Spataro, D. Strigaro, M. Tonolla, N. Vermes and E. Flacio
09:20 – 09:40	<i>Paper 3.2:</i> The continuing spread of <i>Aedes japonicus</i> in Germany – an update H. Kampen and D. Werner
09:40 – 10:00	<i>Paper 3.3:</i> Monitoring of <i>Aedes albopictus</i> (Diptera: Culicidae) in the Valencian Autonomous Region (East of Spain) D. López-Peña , Á. Lis-Cantín, J. Herrezuelo-Antolín and R. Jiménez-Peydró
10:00 – 10:20	<i>Paper 3.4:</i> <i>Aedes albopictus</i> in Jena, Central Germany H. Kampen , C. Kuhlsch and D. Werner
10:20 – 10:40	<i>Paper 3.5:</i> Outcomes of mosquito surveys in Ireland, Luxembourg, Russia and Abkhazia F. Schaffner , C. Ries, I. V. Patraman and M.V. Fyodorova
10:40 – 11:10	Coffee break
Session 4 (11:10 - 13:10)	
<i>Invasive mosquitoes and their control</i>	
Chaired by Gaby Müller & Arjan Stroo	
11:10 – 11:30	<i>Paper 4.1:</i> The experience of controlling invasive <i>Aedes</i> mosquito species in Belgium I. Deblauwe , B. D'hondt, P. Gosselin, K. De Wolf and W. Van Bortel
11:30 – 11:50	<i>Paper 4.2:</i> Invasive mosquito monitoring programmes in Switzerland in 2018 L. Engeler , E. Flacio, P. Müller and M. Tonolla
11:50 – 12:10	<i>Paper 4.3:</i> Water associated areas as a key predictor for <i>Aedes albopictus</i> presence on a Mediterranean island C. Barceló , A. Sanz-Aguilar, R. Rosselló, M. Bengoa, M. Ruiz-Pérez, M. González-Calleja, D. Borràs, C. Paredes-Esquivel, M.A. Miranda and G. Tavecchia

12:10 – 12:30	<p><i>Paper 4.4: TIGREPAT: surveillance and control program of invasive <i>Aedes</i> species and related arboviruses in Northern Italy</i></p> <p>M. Manica, D. Arnoldi, R. Rosà and A. Rizzoli</p>
12:30 – 12:50	<p><i>Paper 4.5: 'The INTERREG TIGER project: main outcomes of the tri-national surveillance network in 2018</i></p> <p>B. Mathieu, X. Augsten, N. Becker, C. Bender, P. Bindler, L. Da-Silva, A. Graffmann, M. Gschwind, N. Hénon, K. Hoffmann, A.C. Honnen, A. Jöst, T. Krebs, E. Krupa, P. Müller, W.P. Pfitzner, B. Pluskota, O. Pompier, O. Renoux, F. Schaffner, L. Vavassori, G. Vogel and A. Kopf</p>
12:50 – 13:10	<p><i>Paper 4.6: 'The <i>Aedes</i> Invasive Mosquito COST Action: promoting innovation and synergies in the field of surveillance and control of invasive <i>Aedes</i> arbovirus vectors in Europe</i></p> <p>F. Schaffner, F. Gunay, A. Michaelakis, A. D. Mihalca, D. Petrić, J. Pinto, W. Wint and A. della Torre</p>
13:10 – 14:30	<p>Lunch</p>
	<p>Session 5 (14:30 - 16:10)</p> <p><i>Surveillance and control of potential vector species</i></p> <p>Chaired by Luis Hernández-Triana & Peter Luthy</p>
14:30 – 14:50	<p><i>Pape 5.1: Data on entomological surveillance activities and detection of West Nile virus in mosquito pools in Greece (2017-2018)</i></p> <p>E. Patsoula, S. Beleri, N. Tegos, D. Pervanidou, A. Vakali, V. Diamantopoulos, G. Balatsos, V. Karras, A. Michaelakis and C. Hadjichristodoulou</p>
14:50 – 15:10	<p><i>Paper 5.2: 1999-2018, 20 years of <i>Aedes albopictus</i> surveillance and control in western France – successes and limits</i></p> <p>S. Chouin, J. De Maupeou, C. Smeraldi, C. Courtin and M. Marjolet</p>
15:10 – 15:30	<p><i>Paper 5.3: Surveillance and control of mosquitoes in the French Points of Entry under the International Health Regulation</i></p> <p>C. Jeannin, Y. Perrin, S. Cornelie, O. Ferreira, Y. Firmin, F. Garcia, J.D. Gauchet, R. Tounsi and C. Lagneau</p>
15:30 – 15:50	<p><i>Paper 5.4: The utility of mitochondrial and nuclear genetic markers in support of mosquito's biodiversity studies (Diptera, Culicidae) in La Rioja, northern central region of Spain</i></p> <p>I. Ruiz-Arrondo, L. M. Hernández-Triana, N. Nikolova and J. A. Oteo</p>
15:50 – 16:10	<p><i>Paper 5.5: Hematophagic blackfly species (Diptera: Simuliidae) from eastern Spain. A potential risk for humans and livestock</i></p> <p>D. López-Peña and R. Jiménez-Peydró</p>
16:10 – 16:30	<p>Coffee break</p>
16:30 – 18:00	<p>Round table</p> <p>Mosquito control in response to pathogen transmission risk in Europe</p> <p>Chaired by S. Mourelatos & F. Schaffner with the participation of E. Gasimov, R. Bueno, A. Drago, and G. L'Ambert</p>
18:00 – 19:00	EMCA Annual General Meeting
	<p>- Wednesday 13th March -</p>
09:00 – 09:40	<p>Keynote lecture</p> <p>Mosquito control in France and its overseas territories: practices and evolution</p> <p>Rémi Foussadier, EID Rhône-Alpes, France</p>
	<p>Session 6 (09:40 - 11:20)</p>

	<i>Biotechnologies to reinvent mosquito control</i> Chaired by Amandine Collado & Norbert Becker
09:40 – 10:00	<i>Paper 6.1:</i> Oxitec self-limiting technology as a tool for urban mosquito control A. Collado
10:00 – 10:20	<i>Paper 6.2:</i> Sterile Insect Technique (SIT) in an integrated control program against <i>Aedes albopictus</i> (Diptera: Culicidae) in South-West Germany N. Becker , X. Augsten, I. Ferstl, W. Fischer, A. Jöst, A. Lehner, T. Oo, A. Tokatlian Rodriguez and B. Pluskota
10:20 – 10:40	<i>Paper 6.3:</i> Combined Sterile Insect Technique and Incompatible Insect Technique: preparation for the proof-of-concept in disease reduction using randomized control trial P. Kittayapong , S. Ninphanomchai, W. Limohpasmanee, C. Chansang, U. Chansang and P. Mongkalangoon
10:40 – 11:00	<i>Paper 6.4:</i> Why not try the Sterile Insect Technique – a comment on the authorities struggle for alternative floodwater mosquito control in Sweden J. O. Lundström and M. Schäfer
11:00 – 11:20	<i>Paper 6.5:</i> Effect of Biosynthesized inorganic nanoparticles on Zika virus vector (<i>Aedes aegypti</i>): An Ecofriendly approach for Mosquito control R. Pandit
11:20 – 11:40	Coffee break
	Session 7 (11:40 - 13:20) <i>Public health issues and recent outbreaks in Europe</i> Chaired by Elina Patsoula & Spiros Mourelatos
11:40 – 12:00	<i>Paper 7.1:</i> Vector control strategy for malaria in Greece S. Gewehr , S. Kalaitzopoulou, N. Perros, N. Garlis, G. Vlachos, P. Tsagkaris, K. Iordanidis and S. Mourelatos
12:00 – 12:20	<i>Paper 7.2:</i> Implementation of urgent preventive and response public health measures for diseases transmitted by <i>Aedes albopictus</i> in Greece D. Pervanidou, E. Patsoula , A. Vakali, A. Baka, A. Michaelakis, G. Balatsos, S. Beleri, G. Koliopoulos , T. Stavrou, T. Georgakopoulou, S. Tsiodras, A. Pappa, N. Vakalis and C. Hadjichristodoulou
12:20 – 12:40	<i>Paper 7.3:</i> Integrated Aedes management for the control of Aedes-borne diseases D. Roiz , A. L. Wilson, T. W. Scott, D. M. Fonseca, F. Jourdain, P. Müller, R. Velayudhan and V. Corbel
12:40 – 13:00	<i>Paper 7.4:</i> Control of mosquitoes transmitting WNV in Central Macedonia, Greece 2018 S. Kalaitzopoulou , S. Gewehr, P. Tsagaris and S. Mourelatos
13:00 – 13:20	<i>Paper 7.5:</i> Evolution of the spread of the Asian tiger mosquito and arboviruses outbreaks in mainland France, 2018 G. L'Ambert , L. Chanaud, C. Jeannin, D. Moulis, J.-C. Mouret and C. Lagneau
13:20 - 14:30	Lunch
Afternoon	Visit of mosquito control project
Evening	Boat trip followed by conference dinner
	- Thursday 14th March -
	Session 8 (09:00 - 10:40) <i>New technologies in mosquito control</i> Chaired by Kamil Erguler & Sandra Gewehr

09:00 – 09:20	<i>Paper 8.1:</i> Evaluating the performance of MozzyJet, an aerial mosquito control vehicle to perform targeted, effective, and low-cost mosquito control K. Erguler, A. Agapiou, P. Antoniou, P. Vouterakos, A. Leonidou, C. Keleshis, J. M. Fawcett, J. Sciare and A. F. Martinou
09:20 – 09:40	<i>Paper 8.2:</i> A novel technology to effectively repel mosquitoes, using electric fields A. Rose, F. Tanveer, E. Molins and K. Paaijmans
09:40 – 10:00	<i>Paper 8.3:</i> Two Plus One: the combination of two passive and one active mosquito trap may well be an <i>Aedes (Stegomyia)</i> control tool worthy of attention A. Schuhbauer, M. Geier, A. E. Eiras and S. A. Ritchie
10:00 – 10:20	<i>Paper 8.4:</i> The use of drones to control mosquitoes: feedbacks from EID Méditerranée N. Sidos, R. Tounsi and C. Lagneau
10:20 – 10:40	<i>Paper 8.5:</i> Using artificial intelligence for guiding wide area mosquito control operations M. Iatrou, S. Kalaitzopoulou, X. Tseni, S. Gewehr and S. Mourelatos
10:40 - 11:00	Coffee break
	Session 9 (11:00 - 12:40) <i>Citizen science, communication and personal protection</i> Chaired by Marina Torres & Ruben Bueno
11:00 – 11:20	<i>Paper 9.1:</i> Citizen Science ease the detection of new <i>Aedes</i> invasive mosquitoes: the case of <i>Aedes (Hulecoetomyia) japonicus japonicus</i> (Theobald 1901) in Spain R. Eritja, I. Ruiz-Arrondo, S. Delacour-Estrella, F. Schaffner, J. Álvarez-Chachero, M. Bengoa, M.-Á. Puig, R. Melero-Alcibar, A. Oltra and F. Bartumeus
11:20 – 11:40	<i>Paper 9.2:</i> News from the ‘Mueckenatlas’ (2017–2018) H. Kampen and D. Werner
11:40 – 12:00	<i>Paper 9.3:</i> The citizen science project ‘Mueckenatlas’: contributions of opportunistic data collection to mosquito research and public engagement in science N. Pernat, H. Kampen and D. Walther
12:00 – 12:20	<i>Paper 9.4:</i> Spatial repellents, Insecticides and their role in human protection M. Moreno, M.A. Miranda and R. Bueno
12:20 – 12:40	<i>Paper 9.5:</i> How to communicate the problematic of vectors and associated diseases to the society M. Torres
12:40 – 13:30	Closing of the conference
13:30 – 14:30	Lunch