



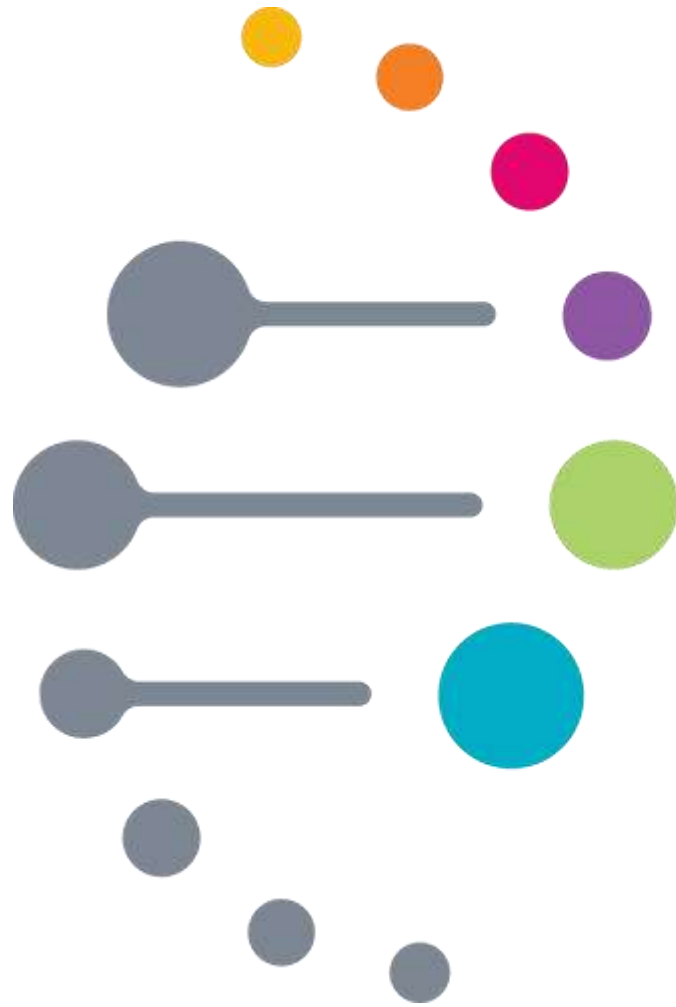
XI International Conference

7-10 November 2023,
Palma, Spain

**SHAPING THE FUTURE
OF VECTOR CONTROL IN EUROPE**



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PROGRAMME: TUESDAY 07/11

8:00	9:00	<i>Walk in and registration</i>	
9:00	9:30	Opening session - Welcome addresses	
		<i>Chair: Miguel Ángel Miranda</i>	
9:30	10:00	Keynote lecture #1	
		<i>Chair: Francis Schaffner</i>	
9:30	10:00	David Dyjack	The isthmus
10:00	11:00	Session 1: Surveillance and management of invasive mosquito species	
		<i>Chair: Sarah Delacour & Francis Schaffner</i>	
10:00	10:15	Tobias Suter	The potential use of detection dogs for the surveillance of the Asian tiger mosquito
10:15	10:30	Laura Soresinetti	Introduction and spread of the invasive mosquito <i>Aedes koreicus</i> in Italy: insights from population genetics
10:30	10:45	Karin Bakran-Lebl	Using wooden mouth spatulas as oviposition support in ovitraps – What do we miss?
10:45	11:00	Kristopher Nolte	Development of an artificial intelligence-based workflow for the reliable identification of mosquito species.
11:00	11:30	<i>Coffee/tea break</i>	
11:30	13:00	Session 1: Surveillance and management of invasive mosquito species	
		<i>Chair: Sarah Delacour & Francis Schaffner</i>	
11:30	11:45	Antoine Mignotte	Track the Tiger: unraveling resting site preferences of <i>Aedes albopictus</i> in Occitania, France.
11:45	12:00	Felix Sauer	Mosquito species identification with geometric morphometrics and CNNs based on wing images
12:00	12:15	Helge Kampen	Invasive mosquito species and their (mis)management in Germany
12:15	12:30	Cedric Marsboom	Evaluating spatial and temporal covariate resolution in surveillance and modelling of mosquitoes
12:30	12:45	Hugo Osório	Remote monitoring of disease vector mosquitoes using smart traps with a novel optical sensor
12:45	13:00	Isra Deblauwe	Lessons learnt from invasive mosquito species control in Belgium
13:00	14:00	<i>Lunch</i>	

PROGRAMME: TUESDAY 07/11

14:00	15:30	Session 1: Surveillance and management of invasive mosquito species	
		<i>Chair: Carlos Barceló & Eleonora Flacio</i>	
14:00	14:15	Stefano Vettore	Comparison between different methods to measure the density of <i>Aedes albopictus</i>
14:15	14:30	Georgia Kirby	Addressing geographic gaps in UK mosquito surveillance: investigating mosquito distributions in Scotland
14:30	14:45	Vincente Ontiveros	Estimating Asian tiger mosquito dispersal through genetic analyses
14:45	15:00	Carlos Barceló	Blood-feeding preferences of <i>Aedes albopictus</i> in laboratory conditions
15:00	15:15	Bianca Modespacher	Swiss national monitoring programme of invasive <i>Aedes</i> mosquitoes: strategy adaption after 10 years
15:15	15:30	Alessandra Della Torre	Development and validation of a MidInfraRed Spectroscopy approach for <i>Aedes albopictus</i> age grading
15:30	16:30	Session 2: Best practices for mosquito control and biocide management	
		<i>Chair: Ruben Bueno Marí & Mara Moreno</i>	
15:30	15:45	Adolfo Ibáñez-Justicia	Delaying the establishment of <i>Aedes albopictus</i> : Mosquito foci elimination in private places in the Netherlands
15:45	16:00	Andrea Drago	The mortality of <i>Aedes albopictus</i> larvae in natural breeding sites
16:00	16:15	Alessandra Della Torre	First characterisation of knock-down-resistance mutations within the <i>vgsc</i> gene in <i>Culex pipiens</i>
16:15	16:30	Bram Van De Straat	Behavioural resistance in malaria vectors occurred prior to the scale-up in insecticide-based vector control
16:30	20:00	Social event: welcome cocktail	

PROGRAMME: WEDNESDAY 08/11

9:00	9:30	Keynote lecture #2	
		<i>Chair: Miguel Ángel Miranda</i>	
		Lucía García San Miguel	The coordination of the Spanish National Plan for Prevention, Surveillance and Control of Vector-Borne Disease
9:30	11:00	Session 3: Vector control in the context of disease outbreaks	
		<i>Chair: Karin Bakran-Lebl & Miguel Ángel Miranda</i>	
9:30	9:45	Mikel González	ARBOPREVENT: Moving from reactive to proactive strategies for the prevention of West Nile virus in Spain
9:45	10:00	John Palmer	Human-mosquito biting networks and the dynamics of mosquito-borne diseases
10:00	10:15	Gwendoline Acerbi	Effects of sublethal doses of insecticide on egg-laying, biting and resistance of <i>Anopheles gambiae</i>
10:15	10:30	Sara Margarida Martins Afonso	A hybrid model to unveil the role of <i>Culex torrentium</i> in West Nile virus transmission in Europe
10:30	10:45	Robert Hancock	Epic 2023 rainfall causes mosquito population explosions and impacts West Nile Virus surveillance in Colorado
10:45	11:00	Muhammad Mukhtar	Management of major mosquito species, with special emphasis on vectors of dengue and malaria in Pakistan
11:00	11:30	Coffee/tea break	
11:30	13:00	Session 4: Citizen science and community involvement for mosquito surveillance and control	
		<i>Chair: Alessandra Della Torre & Andrea Drago</i>	
11:30	11:45	Roger Eritja	Next generation community-based surveillance of mosquitoes: Coupling citizen scientists, experts and machines
11:45	12:00	Marie Hermy	Overwintering of tiger mosquitoes (<i>Aedes albopictus</i>) in two villages in Belgium
12:00	12:15	Alessandra Della Torre	Mosquito Alert ITALIA 2020-2022: citizen engagement, achievements and criticisms
12:15	12:30	Ignacio Gil Torró	Mass trapping for <i>Aedes albopictus</i> control in residential areas: NESOTIGER, a large-scale field trial
12:30	12:45	Isis Sanpera-Calbet	Places and times of human-mosquito interaction in urban areas: insights from Barcelona
12:45	13:00	Aitor Cevitanes	Buzz and croak: microwetland biodiversity links through field, experimental, and citizen science studies
13:00	14:00	Lunch	

PROGRAMME: WEDNESDAY 08/11

14:00	15:30	Poster session & MosquitoAlert session	
14:00	15:30	Poster session: Gaspar Melchor de Jovellanos Build. 1 st floor. Hal ; see list in JEMCA Supplement	
14:00	15:30	MosquitoAlert session (to be attended by MA members only): Gaspar Melchor de Jovellanos Build. Ground floor. Room AB03	
<i>15:30</i>	<i>16:00</i>	<i>Coffee/tea break</i>	
16:00	17:30	Session 5: One health: challenges and perspectives	
		<i>Chair: Alexandra Chaskopoulou & Ignacio Ruiz-Arrondo</i>	
16:00	16:15	Fabrizio Montarsi	Results of entomological surveillance 2022 for West Nile and Usutu virus in northeastern Italy
16:15	16:30	Marina Bisia	Investigation of <i>Dirofilaria</i> spp infection in <i>Culex pipiens</i> mosquitoes and dogs across Attica Region
16:30	16:45	Luis Hernández-Triana	Integrated approaches for mosquitoes blood meal analysis, species identification and virus screening in Spain
16:45	17:00	Heather Ferguson	Assessing the risk of mosquito-borne diseases in Scotland and their response to environmental change
17:00	17:15	Magdalena Wehmeyer	<i>Culex pipiens</i> biotype <i>pipiens</i> and <i>Cx. torrentium</i> show opportunistic host-feeding patterns
17:15	17:30	Tobias Lilja	Evaluation of methods using honey dipped FTA-Filter for detection of mosquito borne viruses
17:30	19:00	EMCA AGM (to be attended by all EMCA members)	
19:00	20:30	Tasting of local products, offered by INAGEA-UIB	

PROGRAMME: THURSDAY 09/11

9:00	9:30	Keynote lecture #3	
		<i>Chair: Eleonora Flacio</i>	
9:00	9:30	Alexandra Chaskopoulou	In search of new tools towards improving sand fly control strategies
9:30	11:00	Session 6: Surveillance and management of black flies, sand flies, ticks, and others	
		<i>Chair: Jolyon Medlock & Tatiana Şuleşco</i>	
9:30	9:45	José Risueño	A survey of sand flies across their known northern distribution range limit in Western Europe, summer 2023
9:45	10:00	Francis Schaffner	The Phlebotomine sand fly fauna of Switzerland revisited
10:00	10:15	Ignacio Ruiz-Arrondo	Black flies (Simuliidae): best practices for a major emerging pest in southern Europe. Part 1: Surveillance
10:15	10:30	Marcos López-de-Felipe	Black flies: best practices for a major emerging pest in southern Europe. Part 2: Treatments and evaluation
10:30	10:45	Gérard Duvallet	Stable fly management at a Donkey Sanctuary in Spain: a new IPM approach
10:45	11:00	Luis Hernández-Triana	Integrated approaches for surveillance of ticks and tick-borne diseases of livestock importance
11:00	11:30	Coffee/tea break	
11:30	12:00	Session 6: Surveillance and management of black flies, sand flies, ticks, and others	
		<i>Chair: Jolyon Medlock & Tatiana Şuleşco</i>	
11:30	11:45	Miguel Ángel Miranda	“Paparra Balear” a citizen science project for the surveillance of ticks in the Balearic Islands (Spain)
11:45	12:00	Fatima Al-Khayat	Risk evaluation of mosquito species and their effects on human and animal health in Qatar

PROGRAMME: THURSDAY 09/11

12:00	13:00	Session 7: Mosquito control in the Mediterranean region and wetland conservation	
		<i>Chair: Estella Gonzalez & Hans Jerrentrup</i>	
12:00	12:15	Laura Blanco Sierra	Drivers of the abundance of a local population of <i>Aedes albopictus</i> in Catalonia (Spain)
12:15	12:30	Jesús Bellver Arnau	Larvicide treatment optimisation at a botanical garden
12:30	12:45	Cyrille Czeher	Cost-benefit analysis of <i>Aedes albopictus</i> population reduction methods evaluated in southern France
12:45	13:00	Nikolaos Perros	Achieving operational effectiveness on a regional scale: challenges and solutions of Western Greece's project
13:00	14:00	Lunch	
14:00	14:30	Round table: Best practices for mosquito control in built-up areas	
14:00	14:30	<i>Chair: Florence Fouque</i>	Sandra Gewehr, Andrea Drago, Rubén Bueno-Marí, Spiros Mourelatos
16:00	18:00	Social events (visits)	
20:00		Gala dinner	

PROGRAMME: FRIDAY 10/11

9:00	9:30	Keynote lecture #4	
		<i>Chair: Sandra Gewehr</i>	
9:00	9:30	Florence Fouque	WHO and Vector Control, from the first recommendations to the current evidence-based guidelines
9:30	11:00	Session 8: New technologies and practices in vector control	
		<i>Chair: Sandra Gewehr & Andreas Rose</i>	
9:30	9:45	Evdoxia Kakani	Combining SIT with automation and machine learning to reduce mosquito-borne disease globally
9:45	10:00	Eleonora Flacio	Application of SIT as an integrated control measure for <i>Ae. albopictus</i> in the Canton of Ticino (Switzerland)
10:00	10:15	Kamil Erguler	VECLim - an early warning support system for climate-sensitive vector-borne diseases
10:15	10:30	Leif Rauhöft	A mechanistic model to predict spatial temporal patterns of <i>Culex pipiens s.s./Cx. torrentium</i> in Germany
10:30	10:45	Agata Negri	MosChito rafts: eco-compatible floating structures for the control of larvae of native and invasive mosquitoes
10:45	11:00	Alejandra Centurión Carrera	Targeting host factors to stop viral replication in <i>Aedes albopictus</i>
11:00	11:30	Coffee/tea break	
11:30	12:30	Session 8: New technologies and practices in vector control	
		<i>Chair: Heather Ferguson & Spiros Mourelatos</i>	
11:30	11:45	Antonios Michaelakis	Preliminary results on the implementation of a boosted Sterile Insect Technique targeting <i>Aedes albopictus</i>
11:45	12:00	Eva Veronesi	E4Warning: preliminary data on mark release recapture of <i>Culex pipiens</i> in Switzerland
12:00	12:15	Stella Kalaitzopoulou	The value of data collection and processing in mosquito control projects
12:15	13:00	Conference closing, awards, announcements	
12:15	13:00	<i>Chair: Sandra Gewehr</i>	



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JEMCA SPECIAL ISSUE

“SHAPING THE FUTURE OF VECTOR CONTROL IN EUROPE”

(EMCA 2023)

Journal
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Submit your EMCA 2023 contribution to our special issue

Reduced APC fees to EMCA 2023 attendees:

600 € (non-members: -25%);
400 € (1-2 years of membership: -50%);
200 € (>2 years of membership: -75%)

Guest editors:

Dr Carlos Barceló (ZAP-UIB, Spain);

Dr Sarah Delacour Estrella (University of Zaragoza, Spain);

Prof. Miguel Á. Miranda (ZAP-UIB & INAGEA, Spain);

Dr Ignacio Ruiz-Arrondo (Center for Biomedical Research of La Rioja, Spain)

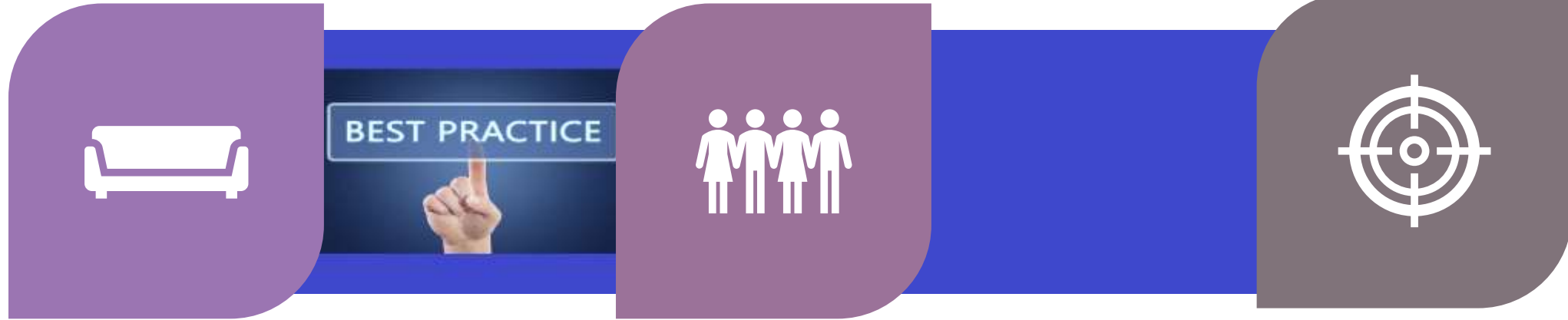
- ✓ **Have access to a wealth of up to date scientific and technical knowledge on mosquito control**
- ✓ **Be early informed and contribute to various activities of the EMCA**
- ✓ **Have access to an extensive network of specialists and professionals in the field**
- ✓ **Participate in Working Groups**
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- ✓ **...and many more**

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MEMBERS

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WG MEMBERS CAN SUGGEST, DISCUSS, REVISE AND COMMENT ON BEST PRACTICES FOR MOSQUITO CONTROL WITH THE GOAL OF CREATING A HANDBOOK OF BEST PRACTICES

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