Full programme

Sunday 2nd October
16.00-19.00 Participant registration

Monday 3rd October
08.00-09.00 Participant registration

09.00-10.00 Opening of the conference, welcome address, presidential address, SOVE report, announcements

10.00-10.30 Coffee break

10.30-11.00 Keynote lecture: “Sourcing the crowd for mosquitoes: the use of citizen science for mosquito surveillance”. (Sander Koenraadt)

11.00-13.00 SESSION 1 “Invasive species: ecology and their potential role as vectors”
Chairmen: Isabel Carvalho and Hugo Osorio

1.1 First report of Aedes (Stegomyia) albopictus (Diptera: Culicidae) and its establishment in Oran, West of Algeria by K.E. Benallal, A. Allal-Ikhlef, K. Benhammouda, K. Senouci, F. Schaffner and Z. Harrat.

1.2 Culicoides imicola: phylogeography, population genetics and invasive status in the Mediterranean basin by S. Jacquet, K. Huber, C. Chevillon, J. Bouyer and C. Garros.

1.3 Surveillance of invasive mosquitoes at points of entry in Switzerland by P. Muller, L. Vavaissori, L. Engeler, T. Suter, E. Flacio, V. Guidi and M. Tonolla.


1.7 Expansion of the Asian tiger mosquito Aedes albopictus in Bulgaria between 2012 and 2015 by O. Mikov, I. Katerinova and T. Agoushev.


1.9 Predicting the spatial-temporal risk of Asian tiger mosquito (Aedes albopictus) introduction into Germany by R. Luhken, A. Jost, I. Schleip, U. Obermayr, A. Rose, N. Becker and E. Tannich.


13.00-14.30 Lunch

14.30-15.30 SESSION 2 “Citizen science and social approaches on vector control”
Chairmen: Doreen Walther and Aleksandra Cupina


2.2 Anopheles plumbeus (Stephens, 1828) in Germany: occurrence and public awareness of a nuisance and potential vector species by E.C. Heym, H. Kampen and D. Walther.
2.3 Citizen science against globalized mosquito-borne diseases by J.R.B. Palmer, A. Oltra, F. Collantes, J. Delgado, J. Lucientes, S. Delacour, M. Bengoa, R. Eritja, M.A. Community and F. Bartumeus

2.4 Door to door project, a network against tiger mosquitoes by G.H. Karabas, C. Matrangolo, A. Maffi, C. Venturelli and F.N. Bienvenue

15.30-16.00 Coffee break

16.00-18.00 SESSION 3 "Epidemiology of vector-borne diseases and their vectors"
Chairmen: Isabel Fonseca and Marija Zgomba


3.2 Increased activity of sindbis virus in the enzootic vectors are potential neutral outbreak indicators by J.O. Lundstrom, J.C. Hesson, M. Schafer, O. Ostman and M. Pfeffer.

3.3 Fine scale mapping of malaria infection clusters by using routinely collected health facility data in urban Dar es Salaam, Tanzania by Y.P. Mlacha, D.J. Terlouw, G.F. Killeen and S. Dongus.

3.4 Overview on vector-borne diseases agents transmitted by ticks in Portugal by I. Pereira Da Fonseca, C. Marques, A. Duarte, A. Leal, J. Meireles, M.M. Santos-Silva and A.S. Santos.


3.9 Ecology of tick-borne pathogens: investigation on rodents and ticks in protected areas in Central Italy by I. Pascucci, M. Di Domenico, G. Angelico, V. Curini, C. Camma and G. Sozio.


18.00-19.00 EMCA general meeting

20.00-21.30 Welcome cocktail

Tuesday, 4th October

08.30-09.00 Keynote lecture: "The potential of social science research in vector control: an example of women-led tsetse control intervention from northwest Uganda. (Vanja Kovacic)

09.00-10.30 SESSION 4 “Ecology and behavior of vectors”
Chairmen: Alexandra Chaskopoulou and Françoise Pfirsch


4.3 Host preference of mosquitoes mediated by skin bacterial volatiles by N.O. Verhulst, A. Busula and W. Takken.
4.4 Understanding the role of host emitted semiochemicals on Culicoides (Diptera: Ceratopogonidae) behaviour by M.A. Miranda, C. Barcelo, D. Borras and A.C. Gerry.
4.5 Species composition, activity patterns and blood meal analysis of sand fly populations in the metropolitan region of Thessaloniki by A. Chaskopoulou, I.A. Giantsis, S. Demir and M.C. Bon.
4.6 Prediction of mosquito occurrence patterns in urban area using machine learning Algorithms by D. Lee and Y.-S. Park.
4.7 Species composition of potential arbovirus vector mosquitoes in selected areas of South Africa by T. Johnson, T. Nelufule, A.P.G. Almeida and L. Braack.

10.30-11.00 Coffee break
11.00-12.30 SESSION 4 "Ecology and behavior of vectors"
Chairmen: Alexandra Chaskopoulou and Francoise Pfirsch

4.8 Does artimisinin based combination therapy influence mosquito fitness and hostseeking behaviour? By J.G. De Boer, A.O. Busula, J. Ten Berge, T.S. Van Dijk and W. Takken
4.9 Annual population dynamics of hematophagous dipterans in Israeli dairy farms suggest a potential vector of lumpy skin disease by Y. Gottlieb, E. Kahana and E. Klement.
4.11 Study of the bionomics of the Obsoletus complex and other livestock associated Culicoides at different temperatures in laboratory conditions by C. Barcelo and M.A. Miranda.


12.30-14.00 Lunch
14.00-15.30 poster session
15.30-16.00 Coffee break
16.00-16.30 Keynote lecture: “AMSAR: a capacity building project based on the "train the trainers” concept (Cornelia Silaghi)
16.30-18.30 SESSION 4 "Ecology and behavior of vectors"
Chairmen: Alexandra Chaskopoulou and Francoise Pfirsch

4.15 Diversity and role of flying and aquatic insects in the ecology of Mycobacterium ulcerans in Benin, West Africa by B. Zogo, E. Marion, J. Babonneau, C. Pennetier, M. Akogbeto, L. Marsollier and A. Djenontin.
4.16 Evidence that agricultural pesticides select for insecticide resistance in the malaria vector Anopheles gambiae by S. Djogbenou, B. Assogba, L. Djossou and M. Makoutode.
4.20 Chemosensory responses to the repellent Nepeta oil and its major component nepetalactone by the yellow fever mosquito, a vector of zika virus by J.C. Dickens, J.T. Sparks and J.D. Bohbot.
4.21 Monitoring and control of a large population of Aedes albopictus in an urban area of Southwest Germany by A. Jost, I. Ferstl, B. Pluskota, S. Schon, E. Tannich, C. Kuhn, A. Mosca, M. Giovannozzi and N. Becker.
4.22 High-resolution density map of the tick-borne encephalitis and Lyme borreliosis vector Ixodes ricinus for Germany by K. Brugger and F. Rubel.
4.23 Impacts of introgressive hybridisation in the population structure and bionomics of Anopheles gambiae in Guinea Bissau by J.L. Vicente, C.S. Clarkson, B. Caputo, B. Gomes, M. Goffredo.

18.30-20.00 E-SOVE board meeting

Wednesday 5th October

Full day excursion

Thursday 6th October

08.30-09.00 Keynote lecture: “Bug battles: extending war’s metaphors in Sardinia after World War II (Marcus Hall)

09.00-10.30 SESSION 5 “Emerging vector-borne diseases and risk assessment”
Chairmen: Veerle Versteirt and Maria Goffredo

5.1 Risk of vector-borne diseases for the EU: entomological aspects by M. Braks, M. Goffredo, M. De Swart, G. Mancini, S. D’Hollander and V. Versteirt.
5.3 Towards a better understanding and performance of species distribution models via a virtual vector by W. Tack, V. Versteirt, E. Ducheyne and G. Hendrickx.
5.4 Vector competence of Culex pipiens from Lebanon for West Nile fever virus and Rift Valley fever virus by R. Zakhia, N. Haddad, H. Bouharoun-Tayoun, L. Mousson and A.B. Failloux.
5.5 Geographical distribution of mosquito (Dipteria: Culicidae) in Morocco: first step to assess the transmission risk of arboviruses by A. Bennouna, G. Chlyeh, H. Elrhaffouli, F. Schaffner, W. Mahir, T. Balinghien and D. Fassi Fihri.
5.8 Implementation of entomological surveillance around imported cases of arbovirus diseases in the Balearic Islands (Spain) by M.A. Miranda, D. Borras, R. Garcia, M. Ruiz, C. Paredes-Esquivel, C. Barcelo, M. Guma and M. Ramos.

10.30-11.00 Coffee break

11.00-12.30 SESSION 5 “Emerging vector-borne diseases and risk assessment”
Chairmen: Veerle Versteirt and Maria Goffredo

De Carvalho and REVIVE Workgroup.

5.10 Monitoring of WNV, its vectors and reservoirs in Danube Delta Biosphere Reserve – Romania, one of the most important European gates for emerging diseases by M. Marinov, F.L. Prioteasa, E. Falcuta, V. Alexe, A. Dorosencu, J.B. Kiss, P. Tamiris, E. Veronesi and C. Silaghi.


12.30-14.00 Lunch

14.00-16.00 Poster session

15.30-16.00 Coffee break

16.00-18.00 SESSION 6 “Vector-pathogen interaction”
Chairmen: Gregory Lanzaro and Eva Veronesi

6.1 Immune gene evolution, ecological speciation and malaria transmission in African Anopheles by G.C. Lanzaro.


6.4 On the trail of Borrelia burgdorferi s.l.: the key role of birds and lizards as reservoirs for the etiologic agent of Lyme borreliosis in Portugal by A.C. Norte, J.A. Ramos, L.P. Da Silva, F.M. Araujo, P.Q. Tenreiro, A. Alves Da Silva, J. Alves, L. Gern, M.S. Nuncio and I. Lopes De Carvalho.


6.6 Francisella-like endosymbiont and Rickettsia aesculimannii co-infection in a Hyalomma marginatum tick by C.L. Carvalho, R. De Sousa, M.M. Santos-Silva, A.S. Santos, M.S. Nuncio and I. Lopes De Carvalho.

6.7 Implicating vectors of Schmallenberg virus in Europe by N. Pages, M. Goffredo, S. Carpenter, S. Talavera, F. Monaco, J. Barber, V. Federici, M. Verdun, N. Pujol, A. Bensaid and J. Pujols.

6.8 Preliminary results on the microbiota of Ixodes ricinus ticks of North-East of Italy by S. Ravagnan, E. Mastoririll, S. Cazzin, A. Salviato, A. Milani, F. Montarsi, C. Losasso, A. Ricci, I. Monne and G. Capelli.

20.00- onwards Gala dinner

Friday 7th October

09.00-10.30 SESSION 7 “Taxonomy, systematic and phylogeny of vectors”
Claire Garros and Francis Schaffner


7.3 MALDI-TOF protein profiling for species identification of sand flies – practical lessons from the lab and from the field by V. Dvorak, K. Hlavackova, P. Halada, B. Alten, V. Ivovic and P. Volf.

7.4 Genetic diversity of *Ixodes ricinus* and first evidence of *Ixodes inopinatus* ticks in Baltic countries by A. Paulauskas, E. Galdikaite-Braziene, J. Radzijevskaja and A. Estrada-Peña.


10.30-11.00 Coffee break

11.00-13.00 SESSION 8 “Advance technologies on vector control”

Chairmen: Fabrizio Balestrino and Andrea Crisanti

8.1 Sterilization of *Aedes japonicus japonicus* (*Hulecoeteomyia japonica japonica*) by high-energy photon irradiation: implications for a sterile insect technique approach in Europe by F. Balestrino, A. Mathis, S. Lang and E. Veronesi.


8.3 The BG-Counter, the first operative automatic mosquito counting device for online mosquito monitoring: field tests and technical outlook by A. Rose, M. Weber, I. Potamitis, P. Villalonga, C. Pruszynski, M. Doyle, M. Geismar, J. Encarnacao and M. Geier.

8.4 Expression of anti-*Trypanosoma* sp. proteins in *Sodalis glossinidius* in the model *Glossina morsitans morsitans* (Diptera: Glossinidae) by S. Van Harten, A.P. Basto, M.O. Afonso and L. Alfaro Cardoso.

8.5 The *Anopheles gambiae* 1000 Genomes Project: a resource for vector control research by C.S. Clarkson, A. Miles, N.J. Harding, G. Botta, D.P. Kwiatkowski and A. gambiae 1000 Genomes Project.


8.8 Response of *Aedes albopictus* (Skuse) males to acoustic and visual stimuli by F. Balestrino, D.P. Iyaloo, K.B. Elahee, A. Bheecarry, F. Campedelli, M. Carrieri and R. Bellini.

8.9 Development of Etofenprox-treated clothing for the US Military by U.R. Bernier.


13.00-13.30 Conclusion remarks