

Colored stars are for oral communications in competition for the awards

★ Best Oral communication - PhD and Post doctoral researchers

PROGRAM - MONDAY 14 OCTOBER

CET (Central European Time)

08:00-09:00 **Conference registration - Welcome coffee**

Area Antigone - Level 2

09:00-09:30 **Welcome Introduction**

Auditorium Einstein - Level 0

Chairs: Didier FONTENILLE (*IRD, Vectopole Sud, Montpellier, France*) & Claire GARROS (*Cirad, Vectopole Sud, Montpellier, France*)

- **Prof Jacques MERCIER** (*Vice-Président en charge de la Recherche, Université de Montpellier*)
- **Mme Clare HART** (*Vice-Présidente de Montpellier Méditerranée Métropole, Déléguée au Rayonnement international et Coopération européenne*)
- **Mme Claire GATECEL** (*Conseillère Régionale, Région Occitanie, Présidente de la Commission Enseignement Supérieur et Recherche*)

09:30-10:05 **Keynote 1**

- **KN-1- What is the interest of Plant Health for One Health?**
Cindy MORRIS (*Plant Pathology Research Unit, INRAE, Montfavet, France*)

10:05-11:05 **Session 1 - Integrative taxonomy and evolution**

Chairs: Thierry LEFEVRE (*CNRS, Montpellier, France*) & Alessandra DELLA TORRE (*Universita Sapienza, Rome, Italy*)

Oral presentations

- ★ **S1-1 - Pangenomic variations and differentiation between the two African malaria vector sister species *Anopheles gambiae* and *Anopheles coluzzii***
Clothilde CHENAL (*MIVEGEC, Univ. Montpellier, CNRS, IRD, Montpellier, France*)
- **S1-2 - Speciation within the *Anopheles gambiae* complex: high-throughput whole genome sequencing reveals evidence of a putative new cryptic taxon in 'far-west' Africa**
Alessandra DELLA TORRE (*Dpt of Public Health and Infectious Diseases, Sapienza University, Rome, Italy*)
- **S1-3 - Genomic diversity, evolution, and adaptation of *Anopheles bwambae* to the extreme thermal spring waters in Uganda** - Michael C. FONTAINE (*MIVEGEC, CNRS - U Montpellier - IRD, Montpellier, France*)

11:05-11:30 **Coffee break - Posters**

Area Antigone - Level 2

11:30-13:10 **Session 1 (continued)**

Auditorium Einstein - Level 0

Chairs: Thierry LEFEVRE (*CNRS, Montpellier, France*) & Alessandra DELLA TORRE (*Universita Sapienza, Rome, Italy*)

Oral presentations

- ★ **S1-4 - Characterization of *Aedes aegypti* from three West African countries using morphological, morphometric and genetic analysis**
Eric AGBOLI (*Vector control, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Hamburg, Germany*)
 - **S1-5 - A worldwide study of structural variants of insecticide resistance genes in *Culex pipiens s.l.***
Pierrick LABBÉ (*ISEM, Université de Montpellier, Montpellier, France*)
 - **S1-6 - A decade of mass spectrometry applications on phlebotomine sand flies: what we know and what we want to know more** - Vit DVORAK (*Dpt of Parasitology, Faculty of Science, Charles University, Prague 2, Czechia*)
 - **S1-7 - An integrative approach to combat cryptic speciation in a complex of biting midges**
Phillip SHULTS (*ARS, USDA, Manhattan, Kansas, United States*)
- ... / ...

- **S1-8 - Integrative taxonomy of nearly 200 years old type specimens of *Culicoides vexans* Staeger leading to unexpected taxonomic implications**
Bruno MATHIEU (*UR3073 PHAVI - Medical School, University of Strasbourg, Strasbourg, France*)

13:10-14:10 **Lunch & Coffee - Posters**

Area *Antigone* - Level 2

14:10-15:50 **Session 2 - Vector ecology and biology**

Auditorium *Einstein* - Level 0

Chairs: Filiz GÜNAY (*University of Florida, Vero Beach, USA*) & Chris SANDERS (*The Pirbright Institute, Woking, UK*)

Oral presentations

- ★ **S2-1 - Temperature and humidity limits for flight activity and survival of field-collected *Culicoides* in the UK**
Laura JONES (*The Pirbright Institute, Woking, United Kingdom*)
- ★ **S2-2 - Tick-borne encephalitis virus in the Netherlands: Exploring the interplay between ticks, viruses and rodents**
Julian BAKKER (*Laboratory of Entomology, Wageningen University & Research, Wageningen, Netherlands*)
- **S2-3 - The cellular and molecular components of the proboscis in the tiger mosquito *Aedes albopictus***
Paolo GABRIELI (*Dept. Biosciences, University of Milan, Milano, Italy*)
- ★ **S2-4 - The genetic bases of deltamethrin resistance in *Aedes albopictus* - A genomic travelling around the world**
Tiphaine BACOT (*Laboratoire d'écologie alpine, Université Grenoble Alpes, Gières, France*)
- **S2-5 - The seasonal thermal ecophysiology and egg metabolome point to different overwintering strategies in two invasive *Aedes* mosquito species**
Ruth MÜLLER (*Unit Entomology, Biomedical Sciences, Institute of Tropical Medicine, Antwerp, Belgium*)

15:50-16:10 **Coffee break - Posters**

Area *Antigone* - Level 2

16:10-17:30 **Session 2 (continued)**

Auditorium *Einstein* - Level 0

Chairs: Filiz GÜNAY (*University of Florida, Vero Beach, USA*) & Chris SANDERS (*The Pirbright Institute, Woking, UK*)

Oral presentations

- **S2-6 - Unlocking *Aedes albopictus* Expansion: Integrating Microhabitat Climate in Species Distribution Models**
Katie Milligan SUSONG (*Pathobiological Sciences, University of Wisconsin - Madison, Madison, WI, United States*)
- ★ **S2-7 - Resting site selection and microclimate of adult mosquitoes along a land use gradient**
Carmen VILLACAÑAS DE CASTRO (*Carl von Ossietzky Universität Oldenburg, Oldenburg, Germany*)
- ★ **S2-8 - Toc-toc: who is inside? Uncovering indoor host-seeking mosquito dynamics by Citizen Science**
Eleonora LONGO (*Center Agriculture Food Environment, University of Trento, San Michele all'Adige, Italy*)
- **S2-9 - Diversity of the *Aedes aegypti* group in the Southwest Indian Ocean**
Andrea GLORIA-SORIA (*Department of Entomology, The Connecticut Agricultural Experiment Station, New Haven, CT, United States*)

17:30-18:30 **Poster Session 1**

Area *Antigone* - Level 2

18:30 **Welcome Cocktail**

Area *Antigone* - Level 2

PROGRAM - TUESDAY 15 OCTOBER

CET (Central European Time)

08:25-09:00

Keynote 2

Auditorium Einstein - Level 0

- **KN-2 - Impact of recent and future climate change on vector-borne diseases**
Cyril CAMINADE (*Earth System Physics Department, The Abdus Salam International Center for Theoretical Physics, Trieste, Italy*)

09:00-10:40

Session 3 - Eco-epidemiology of VBDs under anthropogenic and climatic changes

Chairs: Didier FONTENILLE (*IRD RIVOC, Montpellier, France*) & Antoine BARREAUX (*Cirad, Nairobi, Kenya*)

Oral presentations

- ★ **S3-1 - Predicting the current and future geographic distribution of *Lutzomyia* spp., vectors of *Leishmania* spp., under climate change, in North America**
Sydney DEWINTER (*AEROH Lab, Department of Population Medicine, Ontario Veterinary College, University of Guelph, Guelph, Ontario, Canada*)
- **S3-2 - The rising global economic costs of invasive *Aedes* mosquitoes and *Aedes*-borne diseases**
David ROIZ (*MIVEGEC, Institut de recherche pour le Développement (IRD), Montpellier, France*)
- **S3-3 - One Health innovative sampling to understand the ecology and spread of Usutu virus and West Nile virus in the Netherlands, 2016-2022**
Reina SIKKEMA (*Virology, ErasmusMC, Rotterdam, The Netherlands*)
- ★ **S3-4 - Modeling mosquito thermal performance and West Nile virus transmission suitability with Bayesian hierarchical models** - Julian HEIDECHE (*Heidelberg University, Heidelberg, Germany*)
- **S3-5 - Molecular Xenomonitoring (MX) allows real-time surveillance of West Nile and Usutu virus in mosquito populations**
Nazli AYHAN (*Unité des Virus Émergents, Aix-Marseille University, Marseille, France*)

10:40-11:10

Coffee break - Posters

Area Antigone - Level 2

11:10-12:30

Session 3 (continued)

Auditorium Einstein - Level 0

Chairs: Didier FONTENILLE (*IRD RIVOC, Montpellier, France*) & Antoine BARREAUX (*Cirad, Nairobi, Kenya*)

Oral presentations

- ★ **S3-6 - Alien lymnaeid snails in the Western Mediterranean basin: new invaders and trematode-transmitters in the region?** - Annia ALBA MENÉNDEZ (*Université de Montpellier, Perpignan, France*)
- ★ **S3-7 - Lyme Borreliosis in Bonn, Germany under an integrated approach of One Health and Socio-Ecology**
Maria Luisa ESPINEL RAMOS (*Center for Development Research (ZEF), University of Bonn, Bonn, Germany*)
- ★ **S3-8 - Green cities and the risk for vector-borne diseases transmission** - Mathilde MERCAT (*UMR MIVEGEC, University of Montpellier, IRD, CNRS, Montpellier, France*), presented by Colombine BARTHOLOMÉE
- **S3-9 - Phenotypic plasticity in vector traits drives trends in global disease incidence: *Aedes albopictus* and dengue** - Steven WHITE (*UK Centre for Ecology and Hydrology, Wallingford, United Kingdom*)

12:30-12:40

Conference Group Photo

12:40-13:40

Lunch & Coffee - Posters

Area Antigone - Level 2

13:40-15:00

Poster Session 2

Area Antigone - Level 2

15:00-16:20

Session 4 - Interactions between host(s)-vector(s)-pathogen(s)-microbiota-environment

Chairs: Thomas POLLET (*INRAE, Montpellier, France*) & Maryline UZEST (*INRAE, Montpellier, France*)

Auditorium *Einstein* - Level 0**Oral presentations**

- ★ **S4-1 - West Nile virus-related activity alterations and neuronal infection in *Culex pipiens***
Jaume GARDELA (*IRTA, Centre de Recerca en Sanitat Animal (CRESA, IRTA-UAB), Bellaterra, Barcelona, Spain*)
- **S4-2 - Understanding factors shaping mosquito microbiome assembly using gnotobiotic approach**
Shivanand HEGDE (*School of Life Sciences, Keele University, Newcastle, United Kingdom*)
- **S4-3 - Analyzing the Complexity: interactions of arboviruses and insect-specific viruses in vector competence studies with two invasive *Aedes Species***
Anna HEITMANN (*Department of Arbovirology and Entomology, Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany*)
- ★ **S4-4 - Impacts of insecticide resistance on Usutu virus transmission and associated life-history parameters in *Culex quinquefasciatus* mosquitoes**
Maxime PRAT (*ISEM, Université de Montpellier, Montpellier, France*)

16:20-16:50

Coffee break - PostersArea *Antigone* - Level 2

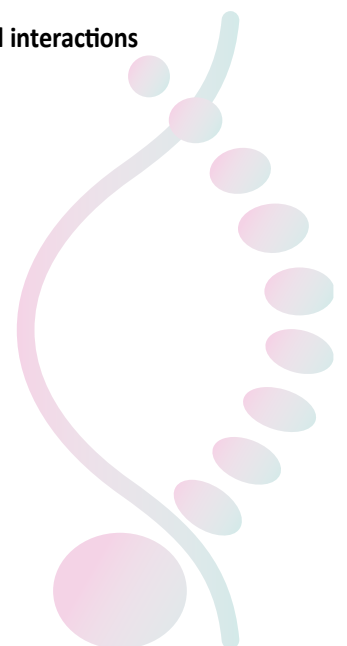
16:50-18:30

Session 4 (continued)Auditorium *Einstein* - Level 0

Chairs: Thomas POLLET (*INRAE, Montpellier, France*) & Maryline UZEST (*INRAE, Montpellier, France*)

Oral presentations

- **S4-5 - Infection dynamics and impact of blood feeding on the susceptibility of *Culicoides biting* midges to bluetongue virus (BTV)**
Christopher SANDERS (*Entomology, The Pirbright Institute, Woking, Surrey, United Kingdom*)
- ★ **S4-6 - Identification of receptors of the plant virus Turnip mosaic virus (*Potyviridae*) in their aphid vectors**
Yu FU (*Plant Health Institute Montpellier (PHIM), Montpellier, France*)
- **S4-7 - The aphid factor: how aphid genetic diversity and the endosymbionts they carry may impact virus epidemiology**
Trisna TUNGADI (*Keele University, Keele, United Kingdom*)
- ★ **S4-8 - A flower pathway for arbovirus transmission? Unravelling sand fly - Phlebovirus interactions**
Lison LAROCHE (*Life Sciences, Imperial College London, London, United Kingdom*)
- ★ **S4-9 - The *Hyalomma marginatum* tick holobiont: composition, dynamics and interactions**
Charlotte JOLY KUKLA (*ASTRE, Cirad-INRAE, Montpellier, France*)



PROGRAM - WEDNESDAY 16 OCTOBER

CET (Central European Time)

08:25-09:00

Keynote 3

Auditorium *Einstein* - Level 0

- **KN-3 - sNailed it: Unlocking the potential of Citizen Science to control and prevent snail-borne diseases**
Tine HUYSE (*Royal Museum for Central Africa, Tervuren, Belgium*)

09:00-10:00

Session 5 - Novel research avenues for innovative vector control strategies

Chairs: Fabrice CHANDRE (*IRD, Montpellier, France*) & Eleonora FLACIO (*SUPSI, Mendrisio, Switzerland*)

Oral presentations

- **S5-1 - Monitoring individual rice field flooding dynamics over large scales to inform mosquito surveillance and control** - Mauricianot RANDRIAMIHAJA (*ONG PIVOT, Ranomafana, Madagascar*)
- ★ **S5-2 - Reducing densities of zoophagous Anopheles by treating cattle with an innovative formulation of Ivermectin while preserving the environment: a One-Health approach**
Angélique PORCIANI (*MIVEGEC, Université de Montpellier-CNRS-IRD, Montpellier, France*)
- **S5-3 - The use of Wolbachia for dengue control - New Caledonia as a case study**
Edwige RANCÈS (*World Mosquito Program, Pau, France*)

10:00-10:30

Coffee break - Posters

Area *Antigone* - Level 2

10:30-11:30

Session 5 (continued)

Auditorium *Einstein* - Level 0Chairs: Fabrice CHANDRE (*IRD, Montpellier, France*) & Eleonora FLACIO (*SUPSI, Mendrisio, Switzerland*)

Oral presentations

- **S5-4 - Development of N-arylamide insecticides to control hemipteran pests of agricultural systems**
Daniel SWALE (*Emerging Pathogens Institute, Department of Entomology, University of Florida, Gainesville, FL, United States*)
- **S5-5 - Vectrap: a 3 years-field evaluation of mass-trapping strategy against *Aedes albopictus* and *Aedes aegypti* implemented in residential areas**
Nicolas LE DOEUFF LE ROY (*EID Méditerranée, Montpellier, France*)
- ★ **S5-6 - Exploiting sugar-feeding behaviour for the control of *Culicoides* biting midges**
Alec HOCHSTRASSER (*Vector Entomology Group, Institute of Parasitology, Zürich, Switzerland*)

11:30-12:45

Session 6 - Networks and projects: What's new?

Auditorium *Einstein* - Level 0Chairs: Florence FOURNET (*IRD, Montpellier, France*) & Vit DVORACK (*Faculty of Science - Charles University, Prague, Czech Republic*)

Oral presentations

- **S6-1 - VectorNet3: The third iteration of the European network for medical and veterinary entomology**
Cedric MARSBOOM (*Avia-GIS, Zoersel, Belgium*)
- **S6-2 - MEDILABSECURE A One Health Network to improve preparedness and response capacities to emerging vector-borne diseases increased by environmental and climate change**
Vanessa LAGAL (*Department of International Affairs, Institut Pasteur, Paris, France*)
- **S6-3 - VECLim Advances: Climate Sensitive Models of Vector Dynamics and Disease Transmission**
Kamil ERGULER (*CARE-C, The Cyprus Institute, Nicosia, Cyprus*)

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- **S6-4 - Shortening the gap between vector surveillance and first response in arboviruses outbreaks: from REVIVE network program to MOBVEC project**
 Hugo Costa OSÓRIO (*Centre for Vectors and Infectious Diseases Research (CEVDI), National Institute of Health (INSA), Águas de Moura, Palmela, Portugal*)
- **S6-5 - A federative scientist Network under One Health approach to enhance people well-being and sustainable development in Côte d'Ivoire**
 Mathurin KOFFI (*Research Unit of Genetic and Molecular Epidemiology, UJLoG, Daloa, Côte d'Ivoire*)

12:45-14:00 **Lunch box**

Area *Antigone* - Level 2

14:00-19:00 **Cultural trip: Abbey of Valmagne**

14:00 Bus departure from Le Corum

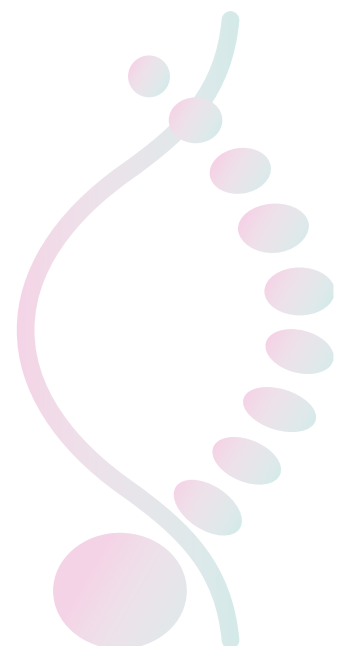
Level 0 - Allé de la Citadelle

15:00 Arrival at the Abbey of Valmagne for guided activities

19:00 **Gala Dinner at the Abbey of Valmagne**

22:00 Return first bus to Montpellier Triangle

00:00 Last departure to Montpellier Triangle



PROGRAM - THURSDAY 17 OCTOBER

CET (Central European Time)

09:00-09:35

Keynote 4

Auditorium *Einstein* - Level 0

- **KN-4 - Title upcoming**
Fredros OKUMU (*University of Glasgow, School of Biodiversity, One Health and Veterinary Medicine, Scotland*)

09:35-10:35

Session 7 - Vector surveillance: surveillance systems, community-based surveillance and management of VBDs

Chairs: Alex CHASKOPOULOU (*USDA ARS EBCL, Thessaloniki, Greece*) & Jerome BARON (*Heidelberg University Hospital, Heidelberg, Germany*)

Oral presentations

- **S7-1 - Integrating Citizen and Authoritative Surveillance Data in Mosquito Distribution Models**
Catuxa CERECEDO-IGLESIAS (*Centre d'Estudis Avançats de Blanes (CEAB-CSIC), Blanes, Catalunya, Spain*)
- **S7-2 - Preventing Another Useless Modelling Task**
Heidi BROWN (*University of Arizona, Tucson, AZ, U.S.A.*)
- **S7-3 - Success in Mosquito Control: An Integrated Approach in Istanbul, Turkey**
Bulent ALTEN (*Ecology/vErg Lab./Biology, Hacettepe University, Ankara, Turkey*)

10:35-11:00

Coffee break - Posters

Area *Antigone* - Level 2

11:00-12:40

Session 7 (continued)

Auditorium *Einstein* - Level 0

Chairs: Alex CHASKOPOULOU (*USDA ARS EBCL, Thessaloniki, Greece*) & Jerome BARON (*Heidelberg University Hospital, Heidelberg, Germany*)

Oral presentations

- **★ S7-4 - Circulation of West Nile virus in active *Culex pipiens* mosquito populations in the Attica region 2021-2023** - Georgios BALATSOS (*Laboratory of Insects & Parasites of Medical Importance, Benaki Phytopathological Institute, Kifisia, Attica, Greece*)
- **★ S7-5 - Unraveling Dissemination Trajectories of Insect Vectors : Towards Enhanced Prophylaxis in Plant Health** - Margaux DARNIS (*Pathologie Végétale, INRAE, Avignon, France*)
- **★ S7-6 - Novel eDNA-based surveillance strategy targeting quiescent ticks in soil**
Androniki CHRISTAKI1 (*European Biological Control Laboratory, USDA-ARS, Thessaloniki, Greece*)
- **★ S7-7 - Testing a novel Optical Sensor for *Aedes* and *Culex* adult automatic count and identification and BG-trap capture rate determination**
Martina MICOCCI (*Dpt of Public Health and Infectious Diseases, Sapienza University of Rome, Rome, Italy*)
- **S7-8 - Estimating the probability that observed absence of tsetse (Diptera: Glossinidae) indicates elimination**
John HARGROVE (*South African Centre for Epidemiological Modelling and Analysis (SACEMA), Stellenbosch University, Stellenbosch, South Africa*)

12:40-13:00

Closing Session

- Filiz GÜNAY (*European SOVE director, Hacettepe University, Turkey*)
- Alexandra CHASKOPOULOU (*USDA-EBCL, Thessaloniki, Greece*)
- Fabrice CHANDRE (*IRD, Montpellier, France*)

- Student awards presentation

13:00-14:00

Lunch & Coffee

Area *Antigone* - Level 2