

MONDAY 6 JULY

08:15-09:45	Conference registration	Espace Philippe Lamour - Level 0
09:45-10:15	Welcome Introduction	AMPHI. Philippe Lamour - Level 1
	<ul style="list-style-type: none"> • Advisory Board and Organizing Committee 	
10:15-12:15	SESSION 1 - Integrative systematics and evolution of hemiptera	AMPHI. Philippe Lamour - Level 1
	Chairs: David OUVRARD (ANSES, France) & Sarah CHÉRASSE (ANSES, France)	
10:15-11:00	<ul style="list-style-type: none"> • KN-01 - Nate HARDY (Entomology and Plant Pathology, Auburn University, Auburn, AL, United States) Evolving sap-sucker invasions 	
	<i>Short oral presentations</i>	
11:00-11:15	<ul style="list-style-type: none"> • S1-01 - François BURGER (Department of Genetics, University of Stellenbosch, Stellenbosch, South Africa) Chromosome level assemblies of genealogically linked <i>Diuraphis noxia</i> biotypes reveal dynamically shuffled genomic and genic architectures 	
11:15-11:30	<ul style="list-style-type: none"> • S1-02 - Clarisse MELCHY (Plant Health Laboratory, Entomology and Botany Unit, ANSES, Montferrier-sur-Lez, France) Investigating the identity of the species of <i>Dactylopius</i> (Hemiptera: Coccothraupidae) invading Mediterranean countries and causing severe damage to prickly pear crops 	
11:30-11:45	<ul style="list-style-type: none"> • S1-03 - Christiane WEIRAUCH (Entomology, University of California Riverside, Riverside, CA, United States) Mapping megadiversity: unravelling the evolution of plant bugs (Hemiptera: Miridae) 	
11:45-12:00	<ul style="list-style-type: none"> • S1-04 - Théo MANFÉ (Center for Biology and Management of Populations, ANSES & INRAE, Montferrier-sur-Lez, France) & Jean-Claude STREITO (UMR1062 Center for Biology and Management of Populations (CBGP), INRAE, Montferrier-sur-Lez, France) Molecular revolution or limited Impact: rethinking whitefly systematics in the era of DNA barcoding (Sternorrhyncha: Aleyrodidae) 	
12:00-12:15	<ul style="list-style-type: none"> • S1-05 - Saskia BASTIN (Plant Health Laboratory, Entomology and Botany Unit, ANSES, Montferrier-sur-Lez, France) Hidden species diversity in laurel psyllids: integrative evidence for five species within <i>Lauritrioza alacris</i> and <i>L. laurisilvae</i> (Hemiptera: Sternorrhyncha: Trioziidae) 	
12:15-13:30	Lunch - Coffee - Posters	Espace Philippe Lamour - Level 0
13:30-15:45	SESSION 2 - Hemipteran feeding behavior and insect-plant interactions	AMPHI. Philippe Lamour - Level 1
	Chairs: Chi-Wei TSAI (National Taiwan University, Taiwan) & Jean-Claude STREITO (INRAE, France)	
13:30-14:15	<ul style="list-style-type: none"> • KN-02 - Saskia HOGENHOUT (Crop Genetics, John Innes Centre, Norwich, United Kingdom) Aphids Use Effector Networks to Fine-Tune Plant Immunity for Sustained Feeding and Vector Success 	
	<i>Short oral presentations</i>	
14:15-14:30	<ul style="list-style-type: none"> • S2-01 - Ofer AIDLIN HARARI (Entomology Department, Hebrew University of Jerusalem, Rehovot, Israel) Molecular and behavioral aspects of sweet taste perception in the phloem-feeding whitefly <i>Bemisia tabaci</i> 	
14:30-14:45	<ul style="list-style-type: none"> • S2-02 - Thomas COCHENILLE (Ecologie et dynamiques des systèmes anthropisés, Université de Picardie Jules Verne, Amiens, France) Electrical Penetration Graph reveals a trade-off between above- and belowground resistance to aphids in chicory 	
14:45-15:00	<ul style="list-style-type: none"> • S2-03 - Petra BLEEKER (Department of Plant Physiology, University of Amsterdam, Amsterdam, Netherlands) Tomato self-defence: the role of specialized metabolites in tomato-whitefly interaction 	
15:00-15:15	<ul style="list-style-type: none"> • S2-04 - Jaime JIMÉNEZ (Instituto de Ciencias Agrarias, Consejo Superior de Investigaciones Científicas, Madrid, Spain) Interplay of drought and virus infection in sugar beet: effects on plant growth, sugar yield and aphid feeding behavior 	
15:15-15:30	<ul style="list-style-type: none"> • S2-05 - Joe LOUIS (University of Nebraska-Lincoln, Lincoln, NE, United States) Deciphering the role of monolignol pathway in sorghum defense against sap-feeding aphids 	
15:30-15:45	<ul style="list-style-type: none"> • S2-06 - Jannicke GALLINGER (Institute for Plant Protection in Fruit Crops and Viticulture, Julius Kühn Institute, Dossenheim, Germany) From Phloem Chemistry to Host Shifts: Determinants of Host Suitability in <i>Cacopsylla pruni</i> 	

15:45-16:15	Coffee break - Posters	Espace Philippe Lamour - Level 0
16:15-18:30	SESSION 2 (continued) Hemipteran feeding behavior and insect-plant interactions	AMPHI. Philippe Lamour - Level 1
Chairs: Chi-Wei TSAI (National Taiwan University, Taiwan) & Jean-Claude STREITO (INRAE, France)		
<i>Short oral presentations</i>		
16:15-16:30	• S2-07 - Osnat MALKA (The Hebrew University of Jerusalem, Rehovot, Israel) Sweetness, metabolic value, and feeding decisions in the whitefly <i>Bemisia tabaci</i>	
16:30-16:45	• S2-08 - Sergey RUMYANTSEV (Institute of Biochemistry and Genetics UFRC RAS, Ufa, Russia) The role of plant miRNA408 and miRNA166 in the regulation of the defense response of wheat (<i>Triticum aestivum</i>) during bird cherry-oat aphid (<i>Rhopalosiphum padi</i>) feeding	
16:45-17:00	• S2-09 - Guillaume MARTEL (Dpt of Agriculture, Forest and Food Sciences, University of Turin, Grugliasco, Italy) Temperature modulates xylem feeding behavior of <i>Philaenus spumarius</i> in a host plant-dependent manner	
17:00-17:15	• S2-10 - Po-Yuan SHIH (Department of Life Sciences, Imperial College London, London, United Kingdom) Aphid chitinase-like proteins are conserved high abundance salivary effector candidates	
17:15-17:30	• S2-11 - Cecilia TAMBORINDEGUY (Entomology, Texas A&M University, College Station, TX, United States) Identification of <i>Lycorma delicatula</i> salivary effectors	
17:30-17:45	• S2-12 - Mohammad VATANPARAST (Julius Kühn Institute, Federal Research Centre for Cultivated Plants, Quedlinburg, Germany) Refining high-throughput behavioral phenotyping: methodological validation of video tracking for aphid-plant interactions	
17:45-18:00	• S2-13 - Dor WINTRAUBE (Institute of Environmental Sciences, Hebrew University of Jerusalem, Rehovot, Israel) From Plants to Insects: Horizontally Transferred Phenylpropanoid-Biosynthesis Genes and Stress Resilience in <i>Bemisia tabaci</i>	
18:00-18:15	• S2-14 - Keyan ZHU-SALZMAN (Department of Entomology, Texas A&M University, College Station, TX, United States) Role of CCA1 in Plant Resistance to the Green Peach Aphid	
18:15-18:30	• S2-15 - Daniele CORNARA (Department of Soil, Plant and Food Science, University of Bari Aldo Moro, Bari, Italy) Soil water deficit modulates spittlebug-olive interaction in a variety-dependent manner	
18:30-19:15	POSTER SESSION - Sessions 2, 5 & 6	Espace Philippe Lamour - Level 0
19:15-21:00	Wine & Cheese	Allée des Platanes



TUESDAY 7 JULY

08:15-09:00	Conference registration	Espace Philippe Lamour - Level 0
09:00-10:45	SESSION 3 - Insect pest management and innovative control strategies	AMPHI. Philippe Lamour - Level 1
	Chairs: Alberto FERERES (CSIC, Spain) & Elena GONELLA (University of Turin, Italy)	
09:00-09:45	<ul style="list-style-type: none"> • KN-03 - Michelle HECK (School of Plant and Environmental Sciences, Virginia Tech, Blacksburg, VA, United States) Translational strategies for managing insect vector-borne diseases in agriculture 	
	<i>Short oral presentations</i>	
09:45-10:00	<ul style="list-style-type: none"> • S3-01 - Nicola BODINO (Department of Agricultural, Forest and Food Sciences (DISAFA), University of Torino, Grugliasco, Italy) Dual-action potential of entomopathogenic endophytic fungi for sustainable management of <i>Philaenus spumarius</i>, the vector of <i>Xylella fastidiosa</i> in Europe 	
10:00-10:15	<ul style="list-style-type: none"> • S3-02 - Djibril ABOUBAKAR SOUNA (HortSys, CIRAD, Montpellier, France) Toward sustainable management of <i>Amrasca biguttula</i> in West Africa: Lessons from the DeSIRA SafeVeg project in Mali, Burkina Faso, and Benin 	
10:15-10:30	<ul style="list-style-type: none"> • S3-03 - Carla Libia CORRADO (Research Centre for Plant Protection and Certification, CREA – Council for agricultural research and economics, Roma, Italy) Organic biostimulants in integrated cucurbit management: effects on aphid vectors of potyviruses 	
10:30-10:45	<ul style="list-style-type: none"> • S3-04 - Gabriel S. DIAS (Department of Entomology and Acarology, Luiz de Queiroz University of São Paulo, Piracicaba, São Paulo, Brazil) Feeding behavior of bifenthrin-resistant and susceptible <i>Dalbulus maidis</i> (DeLong & Wolcott, 1923) strains on healthy and pathogen-infected maize plants 	
10:45-11:15	Coffee break - Posters	Espace Philippe Lamour - Level 0
11:15-12:15	SESSION 3 (continued) Insect pest management and innovative control strategies	AMPHI. Philippe Lamour - Level 1
	Chairs: Alberto FERERES (CSIC, Spain) & Elena GONELLA (University of Turin, Italy)	
	<i>Short oral presentations</i>	
11:15-11:30	<ul style="list-style-type: none"> • S3-05 - Anna KELL (Applied Biosciences, Macquarie University, Sydney, NSW, Australia) Exploring volatiles from the banana-spotting bug (<i>Amblypelta lutescens lutescens</i>) for the development of a lure-based monitoring system 	
11:30-11:45	<ul style="list-style-type: none"> • S3-06 - Badr-Eddine JABRI (Dpt of Agricultural, Forest and Food Sciences, University of Turin, Grugliasco, Italy) Transcriptomic analysis of The American grapevine leafhopper, <i>Scaphoideus titanus</i> Ball, after exposure to insecticides 	
11:45-12:00	<ul style="list-style-type: none"> • S3-07 - Navin PATEL (Agroecosystem Health and Pest Management, Rothamsted Research, Harpenden, Hertfordshire, United Kingdom) Can multispectral imaging improve the detection of CBSD in cassava clean seed systems? 	
12:00-12:15	<ul style="list-style-type: none"> • S3-08 - Domenico BOSCO (DISAFA Dept., University of Torino, Grugliasco, Italy) Prospects for controlling leafhopper vectors of phytoplasmas and reducing transmission through RNAi 	
12:15-13:45	Lunch - Coffee - Posters	Espace Philippe Lamour - Level 0
13:45-15:45	SESSION 4 - Hemipteran-plant-pathogen interactions	AMPHI. Philippe Lamour - Level 1
	Chairs: Jessica DITTMER (INRAE, France) & Cecilia TAMBORINDEGUY (Texas A&M University, USA)	
13:45-14:30	<ul style="list-style-type: none"> • KN-04 - Rodrigo ALMEIDA (University of California, Berkeley, Berkeley, CA, United States) Climate, vector behavior, host susceptibility, and disease risk: do pathogen diversity and adaptation matter? 	

Short oral presentations

- 14:30-14:45 • **S4-01 - Véronique BRAULT** (*Virus Transmission Team, INRAE, Colmar, France*)
Complex virus-aphid-host plant interactions as a major challenge in understanding beet yellows epidemiology
- 14:45-15:00 • **S4-02 - Juan José LÓPEZ-MOYA** (*CRAG, Barcelona, Spain*)
Gene Expression Modulation in *Bemisia tabaci* by Tomato yellow leaf curl virus (TYLCV)-derived Small RNAs
- 15:00-15:15 • **S4-03 - Stefano COLELLA** (*PHIM Plant Health Institute of Montpellier, INRAE, Univ Montpellier, IRD, CIRAD, Institut Agro, Montpellier, France*)
Single-cell transcriptomics to study aphid's stylet biogenesis: a detailed view in a mutant line of Stylin-01, an acrostyle cuticular protein key for virus transmission
- 15:15-15:30 • **S4-04 - Ilana KUZMINSKY** (*Department of Entomology, Volcani Institute, Rishon Lezion, Israel*)
Tomato yellow leaf curl virus impact on Endoplasmic Reticulum-Associated Stress Responses in *Bemisia tabaci*
- 15:30-15:45 • **S4-05 - Alexandra SCHOENY** (*Pathologie Végétale, INRAE, Montfavet, France*)
Forecasting aphid flights using weather data to predict virus outbreak risk

15:45-16:15 Coffee break - Posters

Espace Philippe Lamour - Level 0

16:15-18:30

SESSION 4 (continued)
Hemipteran-plant-pathogen interactions

AMPHI. Philippe Lamour - Level 1

Chairs: Jessica DITTMER (*INRAE, France*) & Cecilia TAMBORINDEGUY (*Texas A&M University, USA*)**Short oral presentations**

- 16:15-16:30 • **S4-06 - Shu LI** (*University of Liège, Gembloux, Belgium*)
In vivo profiling of the Begomovirus coat protein-vector protein interactions in *Bemisia tabaci* by proximity labeling
- 16:30-16:45 • **S4-07 - Arash RASHED** (*Department of Entomology, Virginia Tech, Blackstone, VA, United States*)
The invasive cereal grass aphid in the USA: Range expansion, population structure, direct damage and potential vector competence
- 16:45-17:00 • **S4-08 - Sylvie MALEMBIC-MAHER** (*UMR Biologie du Fruit et Pathologie, INRAE, Villenave-d'Ornon, France*)
Lamprolittix nitidulus identified as a new leafhopper vector in the ecological cycle of Flavescence dorée disease
- 17:00-17:15 • **S4-09 - Rajagopalbabu SRINIVASAN** (*Entomology, University of Georgia, Griffin, Georgia, United States*)
Two whitefly proteins interact with capsids of SSDNA viruses and influence virus retention and transmission
- 17:15-17:30 • **S4-10 - Jessica DITTMER** (*IRHS, INRAE, Beaucauzé, France*)
From insect symbiont to phloem colonizer: Comparative genomics reveals horizontal gene transfers implicated in the emergence of phytopathogenic *Arsenophonus* strains
- 17:30-17:45 • **S4-11 - João Roberto SPOTTI LOPES** (*Department of Entomology and Acarology, ESALQ/University of São Paulo, Piracicaba, SP, Brazil*)
Modulation of corn leafhopper settling behavior by coinfecting viruses in maize
- 17:45-18:00 • **S4-12 - Jesús NAVAS-CASTILLO** (*Instituto de Hortofruticultura Subtropical y Mediterránea "La Mayora" – CSIC, Algarrobo-Costa, Málaga, Spain*)
Dual-vector transmission of a pepper polerovirus: first plant virus transmitted by aphids and the supervector whitefly *Bemisia tabaci*
- 18:00-18:15 • **S4-13 - Laura DI PIETRO** (*Plant Health Institute of Montpellier (PHIM), Université de Montpellier, Montpellier, France*)
Navigating the aphid vector: salivary gland targeting by faba bean necrotic stunt virus
- 18:15-18:30 • **S4-14 - Luke THOMPSON** (*Plant Pathology and Plant Microbe Biology Section, Cornell University, Ithaca, NY, United States*)
Aphid-polerovirus protein interactions couple antiviral immunity and plant virus transmission in *Myzus persicae*

18:30-20:00 POSTER SESSION - Sessions 3 & 4

Espace Philippe Lamour - Level 0

WEDNESDAY 8 JULY

08:15-09:00 **Conference registration** *Espace Philippe Lamour - Level 0*

09:00-10:45 **SESSION 5 - Hemipteran population biology and ecology** *AMPHI. Philippe Lamour - Level 1*

Chairs: Emmanuelle JOUSSELIN (INRAE, France) & Piotr TRĘBICKI (Macquarie University, Australia)

09:00-09:45 • **KN-05 - Quentin CHESNAIS** (INRAE, Colmar, France)

Host and vector manipulation by plant viruses: quantitative evidence, ecological constraints, and molecular mechanisms

Short oral presentations

09:45-10:00 • **S5-01 - Enric FRAGO** (CBGP – Centre for Biology and Management of Populations, Montpellier, France)
From microcosms to greenhouses: multi-predator assemblages and aphid dynamics

10:00-10:15 • **S5-02 - Marine BAUJEU** (UMR PVBMT, Université de La Réunion, Saint-Pierre, Réunion)
Unravelling the eruptive dynamics of the invasive psyllid *Acizzia uncatoides*: Spatiotemporal patterns and regulatory processes in an insular cloud forestn

10:15-10:30 • **S5-03 - Piotr TRĘBICKI** (Applied BioSciences, Macquarie University, Sydney, NSW, Australia)
Rethinking virus management: targeting hemipteran-plant interactions rather than vectors alone

10:30-10:45 • **S5-04 - Alberto FERERES** (Instituto de Ciencias Agrarias (ICA), Consejo Superior de Investigaciones Científicas (CSIC), Madrid, Spain)
Is egg diapause of the spittlebug *Philaenus spumarius* really mandatory?

10:45-11:15 **Coffee break - Posters** *Espace Philippe Lamour - Level 0*

11:15-12:45 **SESSION 5 (continued) - Hemipteran population biology and ecology** *AMPHI. Philippe Lamour - Level 1*

Chairs: Emmanuelle JOUSSELIN (INRAE, France) & Piotr TRĘBICKI (Macquarie University, Australia)

Short oral presentations

11:15-11:30 • **S5-05 - Jasmine CADENA I CANALS** (Virology, Bacteriology and Phytoplasmology / Plant Protection, Agroscope, Nyon, Switzerland)
Cultivar–vector interactions may explain contrasting Flavescence dorée epidemiological patterns in Swiss vineyards

11:30-11:45 • **S5-06 - Kiran GADHAVE** (Department of Entomology, Texas A&M University, College Station, TX, United States)
Integrating Machine Learning and RNAi for Predictive and Molecular Control of Hemipteran Crop Pests

11:45-12:00 • **S5-07 - Douglas STUEHLER** (ORISE fellow, DOE/USDA, ARS, Fort Pierce, FL, United States)
Genome-wide association and holobiont analysis of *Diaphorina citri*: examining genetics underlying vector competence of the Huanglongbing insect vector

12:00-12:15 • **S5-08 - Brianne SYMAK** (Plant Science, University of Saskatchewan, Saskatoon, SK, Canada)
Uncharted Territory: Exploring Leafhopper (Hemiptera: Cicadellidae) Communities in Canadian Prairie Canola Fields

12:15-12:30 • **S5-09 - Sam MUGFORD** (Crop Genetics, John Innes Centre, Norwich, United Kingdom)
Geographic patterns in genetic diversity of the meadow spittlebug *Philaenus spumarius*, a hemipteran vector of *Xylella fastidiosa*

12:30-12:45 • **S5-10 - Thomas VINATIER** (Faculté des sciences de l'agriculture et de l'alimentation, Université Laval, Québec, Canada)
Towards an understanding of the chronoecology of leafhoppers using artificial intelligence and smart traps

12:55-14:15 **Lunch - Coffee - Posters** *Espace Philippe Lamour - Level 0*

14:15-15:00 **SESSION 6 - Hemipteran-microbiota interactions** *AMPHI. Philippe Lamour - Level 1*

Chairs: Bessem CHOUAIA (INRAE, France) & Diego SANTOS GARCIA (INRAE, France)

14:15-15:00 • **KN-06 - Anna MICHALIK** (Faculty of Biology, Jagiellonian University, Kraków, Poland)
Evolutionary dynamics of the symbiotic systems of Auchenorrhyncha

Short oral presentations

- 15:00-15:15 • **S6-01 - Veronika ANDRIIENKO** (*Department of Developmental Biology and Invertebrate Morphology, Jagiellonian University, Kraków, Poland*)
Evolutionary flexibility within dynamic nested symbioses of leafhoppers
- 15:15-15:30 • **S6-02 - Amit LEVY** (*University of Florida, Lake Alfred, Florida, United States*)
***Diaphorina citri* flavivirus-like virus is affecting *Diaphorina citri* in a life-stage dependent manner to increase *Candidatus Liberibacter asiaticus* transmission**
- 15:30-15:45 • **S6-03 - Patricia SANCHES** (*Biocommunication Group, ETH Zurich, Zurich, Switzerland*)
Plant virus mediates endosymbiont effects on aphid-parasitoid interactions

15:45-16:15 **Coffee break - Posters**

Espace Philippe Lamour - Level 0

16:15-17:15 **SESSION 6 (continued) - Hemipteran-microbiota interactions**

AMPHI. Philippe Lamour - Level 1

Chairs: Bessem CHOUAIA (*INRAE, France*) & **Diego SANTOS GARCIA** (*INRAE, France*)

Short oral presentations

- 16:15-16:30 • **S6-04 - Diego SANTOS GARCIA** (*UMR1062 Center for Biology and Management of Populations (CBGP), INRAE, Montferrier-sur-Lez, France*)
Whiteflies: a symbiosis puzzle
- 16:30-16:45 • **S6-05 - Piotr ŁUKASIK** (*Institute of Environmental Sciences, Faculty of Biology, Jagiellonian University, Kraków, Poland*)
Alternative trajectories of extreme genomic degeneration in hemipteran symbionts
- 16:45-17:00 • **S6-06 - Yuanjie LI** (*Competence Centre for Plant Health, Free University of Bozen-Bolzano, Bolzano, Italy*)
Evolutionary dynamics of symbionts across the psyllid tree
- 17:00-17:15 • **S6-07 - Einat ZCHORI-FEIN** (*Department of Entomology, Agricultural Research Organization – Volcani Institute, Neve Ya'ar Research Center, Israel*)
AnvRV, a mutualistic Reovirus in the parasitoid wasp *Anagyrus vladimiri* (Hymenoptera: Encyrtidae)

17:15-18:00 **Closing remarks**

AMPHI. Philippe Lamour - Level 1

20:00 **Closing banquet**

Faune Restaurant (MO.CO.) - Montpellier

