ECE 2023 CRETE
European Congress of Entomology
XII European Congress of Entomology
16-20.10.2023
Cultural Conference Center of Heraklion, Crete, Greece

ECE2023 Detailed Program

	Monday 16 October 2023						
07:30 - 08:30	Registrations						
08:30 - 10:00	**Hall 1 - Plenary**						
08:30 - 09:00	Welcome - Opening						
09:00 - 10:00	**Plenary lecture - A mighty model: Unraveling the molecular genetic mechanisms of extreme polyphagy and pesticide resistance in the crop pest Tetranychus urticae**						
	Prof. dr. ir. Thomas Van Leeuwen						
	Professor, Faculty of Bioscience Engineering, Department of Plants and Crops, University of Ghent, Belgium						
10:00 - 10:30	**Coffee break**						
10:30 - 12:30		**Hall 1**	**Hall 2**	**Hall 3**	**Hall 4**	**Hall 5**	**Hall 6**
		Ecology and Behavior	Biological Control and Biopesticides	Urban and Forest Entomology	Toxicology and pesticide resistance	Morphology and Systematics	Workshop on Bee Identification
		Sensory biology	**New developments in greenhouse**	**Insects in urban landscapes - pests, friends and allies**	**Toxicology and pesticide resistance I**	**Advances in Hemipterology**	
	Chairs:	Kostas Iatrou	George Broufas	Dimitrios Avtzis - Şükran Oğuzoğlu	Ralf Nauen & Thomas Van Leeuwen	Shashikant Udikeri	
		Keynote: Function and regulation of insect odorant receptors	**Keynote:** Biological control in greenhouse crops: from releasing natural enemies to ecosystem management	**Keynote**: Invasive insects in urban landscapes – pests, friends and allies	**Keynote:** The evolution of resistance to natural and synthetic xenobiotics in the aphid Myzus persicae	99 million years of evolutionary stasis – first amber inclusion of the family Trichotonannidae, with an overview of the fossils of the infraorder Dipsocoromorpha (Heteroptera)	
		D. Wicher	G.J. Messelink, J. Perez-Rodriquez, H. van der Heide, A. Leman, H. M. Kruidhof	M. Kenis	C. Bass	M. Roca-Cusachs, J. Kim, V. Hartung, M. Goula, S. Jung	
		Molecular basis of olfactory-driven behaviours of Culicoides imicola	Exploring the relationship between Nesidiocoris tenuis and Trichoderma harzianum in tomato plants under water stress	Is ash sawfly a problem in Ireland?	Molecular mechanisms of resistance to complex II inhibitors in Tetranychus urticae populations from Türkiye	Origins of the central Macaronesian psyllid lineages (Hemiptera; Psylloidea)	
		Y. Shashar , J. D. Bohbot, A. Behar	A. Urbaneja, R. Ortells-Fabra, M. Pérez-Hedo	F. Spaans, S. Clawson, C. Hall, A. Murchie	E. İnak, S. De Rouck, B. Demirci, W. Dermauw, T. Van Leeuwen	S. Bastin, F. Siverio, E. Hernández-Suárez, D. Percy	
		Evolution of maxillary palp-mediated repellency in culicine mosquitoes	Pronematus ubiquitus: a multitasking mite in greenhouse crops	Community composition of psylliphagous ladybirds in a tropical island environment in La Réunion island, France	Chromosome-level genome assembly of Helicoverpa assulta (Lepidoptera: Noctuidae) provides insight into the biology of the host-plant specialist	Morphological identification and DNA barcoding of nymphs of Auchenorrhyncha species: A useful tool for species level identification.	
		R. Huff, Y. Vainer, Y. Wang, X, E. Yakir, D. Perets, E. Sar-Shalom, M. Ghaninia, I. Vieira Coutinho Abreu Gomes, A. Warburg, O. Akbari, P. Papathanos, R. Ignell, J. Riffell, R. Pitts, J. Bohbot	F. Wäckers, M. Duarte, R. Maertens, R. Moerkens, J. Pijnakker, D. Vangansbeke	M. Baujeu, L. Moquet, F. Chiroleu, B. Reynaud	J. Kim, S.-J. Ahn	Z. Thanou, M. Bouga, A. Tsagkarakis	
		The oviposition cue indole inhibits animal-host attraction in Aedes aegypti (Diptera: Culicidae)	Smart parasitoids: applying parasitoid learning to increase the efficacy of mealybug biocontrol	Exotic Aphid Species of Mediterranean Forests of Türkiye	Molecular genotyping of mutations in the GABA-gated chloride channel in populations of Euschistus heros in Brazil	Genome skimming of sea skaters improves phylogenetic resolution of Halobatinae (Hemiptera: Heteroptera: Gerridae)	
		E. Sar-Shalom, A. Dekel, Y. Viner, E. Yakir, J. Bohbot	G. Durovic, J. de Boer, J. de Bruijn, H.M. Kruidhof, A. Kruitwagen	S. Oğuzoğlu, İ. Harman, M. Avcı	A.C.P. Cuenca, R. Vicentini, R. Nauen	J. J. M. Chang, M. J. Raupach, J. Damgaard, L. Cheng, Y. C. Ip, M H.-C. Ng, B. J. Wainwright, I. Kunning, R. R. Mana, W. Hongjamrassilp, W. W. R. Chan, J. L. Whitney, D. Maggioni, H. Mishra, D. Huang	
		Reverse chemical ecology in a moth: identification of new behaviorally active semiochemicals in the cotton leafworm	Application of alternative food can constrain biological pest control	Human impact on mosquito breeding habitats in Urban Green Space and consequences for mosquito proliferation in urban areas	Combatting pesticide resistance in insects using botanical bio-synergists	Rapid species-level hemolymph color test for all life stages of Nipaecoccus viridis (Newstead) (Hemiptera: Pseudococcidae), an invasive and regulatory pest in the United States	
		E. Jacquin-Joly, G. Caballero-Vidal, J. Gévar, S. Fiorucci, N. Montagné	J. A. Deere, Z. van Rossum, P. van Rijn, G. M. Beretta, A. Janssen	P. Duval, E. Martin, L. Vallon, M. Chevalier, P. Antonelli, A. Signoret, P. Luis, G. Minard, S. Malassigné, L. Wiest, A. Fildier, P. Jame, E. Bonjour, A. Cantarel, J. Gervaix, E. Vuillet, R. Cazabet, C. Aschan-Legoynie, C. Valiente Moro	H.Fenton, D. George, N. Audsley	M.Z. Ahmed	
		A biosensor powered by a mosquito odorant receptor	Testing effective and sustainable management strategies for the control of the horticultural pest Lygus rugulipennis	Mosquitoes of Turkey	High-resolution genetic mapping of dicofol resistance identifies the glutamate-gated chloride channel as the mite-specific target-site of dicofol, bromopropylate and chlorobenzilate	Molecular diversity among the mirid bugs infesting cotton in India and DNA barcoding of undescribed species	
		Y.Vainer, I. Ichin, S. Vernick, J. Bohbot	L. Sutter	F. Bursalı	M. Vandenhole, C. Mermans, B. De Beer, W. Xue, W. Dermauw, T. Van Leeuwen	L.K .Vidyashree, S.S.Udikeri, R.S. Bhat	
			Improved fitness of artificially selected strains of Orius laevigatus (Fieber) (Hemiptera: Anthocoridae) feeding on astigmatid mites	Control of Xylotrechus chinensis (Chevrolat) (Coleoptera: Ceramycidae) using four conventional insecticides	Oviposition avoidance against systemically applied imidacloprid in the Colorado Potato Beetle	Brindley glands in Zelus renardii	
			A. Rodríguez-Gómez, A. Donate, V. Balanza, M.C. Reche, A. B. Abelaira, I. Sánchez-Martínez, P. Bielza	N.G. Kavallieratos, M.C. Boukouvala*, A. Skourti, E.P. Nika, G.T. Papadoulis	A. Edison, A. Michelbach, D. Sowade, L. Schmidt, M. Schäfer, R.Nauen, P. Duchen, S. Xu	U. Picciotti, M. Valverde-Urrea, F. Garganese, F. Lopez-Moya, F. Foubelo-García, F. Porcelli, L.V. Lopez-Llorca	
				Syngenta TreeCare application: an effective treatment against Xylotrechus chinensis in mulberry trees		A description of egg collection, morphology, and hatching rates of eight Lepidopteran species of California USA	

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				M. Stamouli, D. Salvador Alcalde, K. Kis, A. Tsagkarakis		M. K. Sakka, M. de L. Arevalo-Galarza, J. Powell, S. Gautam, S. Tebbets, C. G. Athanassiou, S. S. Walse	
12:30-13:30	**Lunch break**						
	Hall 1 - Plenary						
13:30-14:30	Plenary lecture						
	Prof. Dr. Consuelo De Moraes						
	Professor, Department of Environmental Systems Science, Biocommunication & Ecology, Director of the Entomological Collection, ETH Zürich, Switzerland						
14:30-16:30		**Hall 1**	**Hall 2**	**Hall 3**	**Hall 4**	**Hall 5**	**Hall 6**
		Ecology and Behavior	Biological Control and Biopesticides	Urban and Forest Entomology	Toxicology and pesticide resistance	Morphology and Systematics	Workshop on Bee Identification
		Evolutionary ecology and behavior I	**Biological control of orchard and vineyard pests I**	**Forest insects in a changing environment - challenges and new approaches**	**Toxicology and pesticide resistance II**	Advances in Coleopterology	
	Chairs:	Emmanuelle Joly	Panos Milonas	Dinka Matosevic - Luc De Bruyn	Ralf Nauen & Thomas Van Leeuwen	Efrat Gavish-Regev	
		Why are insects virtually absent from the open sea?	**Keynote:** Biological control of invasive pests in citrus: challenges and solutions	**Keynote**: New and emerging bark and ambrosia beetles in Europe	**Keynote:** Using genome engineering to characterize the molecular basis of insecticide resistance in mosquitoes and agricultural pests	Discrimination of the Anastrepha fraterculus complex using the ITS2 sequence	
		M.S. Leonardi, C.R. Lazzari	A. Tena, A. Plata, C. Junca, M. Gómez-Martínez, J. Catalán, A. Urbaneja	M. Faccoli	L. Grigoraki, V. Douris, K. Papapostolou, G. Samantsidis, A. Anthousi, R. Panteleri, E. Kokkas, J. Williams, E. Roditakis, A. Tsagkarakou, R. Nauen, H. Ranson, G. Lycett, J. Vontas	L. M. Gomulski, T. Vera, S.B. Lanzavecchia, C. Caceres, W. Enkerlin, G. Fiorenza, A. R. Malacrida, G. Gasperi	
		What is the secret of success of the invasive brown widow spider Latrodectus geometricus?	Proactive biological control of Lycorma delicatula (Hemiptera: Fulgoridae) in west coast of USA: from classical to conservation?	Demographic history of the spruce bark beetle.	**Keynote:** Characterization, impact and spread of ketoenol resistance in different whitefly species with special reference to mutations in acetyl-CoA carboxylase	EURL and regulated fruit-flies: two sharper tools for a tighter list	
		M. Segoli*, M. Mowery, V. Arabesky, A. D. Johnson, Y. Lubin	F. Gómez Marco, M. West, Jorge B. Torres, L. Roberts	P. Zieliński, J. Morales, A. Mykhailenko, M. Schebeck, M.L. Duduman, K. Nadachowska-Brzyska	R. Nauen	P. Rousse, A. Taddei, R. Mouttet, S. Blümel, R. A. Gottsberger, C. Lethmayer , H.Reisenzein, P. Reynaud	
		Larval behavior as an adaptive strategy to agricultural practices in European and Asian Corn Borers: adaptation or preaptation?	The killer detects prey's odours: can fungi be attracted to Halyomorpha halys eggs by their volatiles?	Comparing methods of mapping the infestation by insects of a Mediterranean forest in Karpathos, Greece, using SENTINEL 2 data	Gene editing in thrips species to validate the molecular mechanisms of insecticide resistance.	Denucleation of neurons is a key to extreme brain miniaturization	
		M. Launay, P. Audiot, G. Perez[1], S. Ponsard, R. Streiff, S. Ponsard, V. Calcagno	D. la Forgia , M. Cléroux, R. Favaro, K. Gindro, I. Hiltpold	K. Papadopoulos, C. Vasilakos, S. Papadopolou	A. Mocchetti, S. De Rouck, W. Dermauw, T. Van Leeuwen	A.A. Polilov, K.D. Hakimi, A.A. Makarova	
		Population dynamics of a socially behaving pest insect facing environmental changes	Consequence of rearing temperature for several generations on the low temperature activity of the parasitoid Aphidius matricariae on the rosy apple aphid, Dysaphis plantaginea.	Bark beetles of Greece – refining species checklist and assessing complementary management approaches	Management of western corn rootworm with transgenic maize: current status and future prospects	Denucleation of neurons during metamorphosis in microwasp Megaphragma viggianii (Trichogrammatidae)	
		M. Jonsson, A. Mäkelä E. Nonaka, S. Van Meyel, C. Lindstedt-Kareksela	S. Demeter, L. Ferrais, T. Hance	D.N. Avtzis,N. Eleftheriadou, D.Kaltsas, E. Koutsoukos, A.G. Galazoulas, I. Gkourogiannis, M. Faccoli	A. Gassmann	A.A. Makarova, E.N. Veko, A.A. Polilov	
		Behavioural and neural variability: do invasive ants need it to solve problems?	Management of Entomopathogenic based strategy against the red palm weevil in Israeli date palm plantations	National Biodiversity Future Center (NBFC): assessment of impact of alien ambrosia beetles (Coleoptera: Curculionidae, Scolytinae) on Coleoptera native community in Italian Protected Areas	Characterization of resistance to Bacillus thuringiensis (Bt) Cry1A and Vip3A insecticidal proteins in Brazilian strains of Spodoptera frugiperda (Lepidoptera: Noctuidae)	Flight mechanics of the miniature parasitoid wasp Megaphragma vigianii (Trichogrammatidae)	
		S. Narasimhan, V. Chiara, S. Arganda-Carreras, M. Witek, I. Sanmartín-Villar	D. Ment, I. Glazer, Z. Mendel, A. Greenberg, G. Yaacobi, Y. Ben-Hamozeg	E. Cresta, M. Contarini, L. Rossini, N. Di Sora, S. Speranza	L. Schröder, R. Nauen	N. Lapina, S. Farisenkov, D. Kolomenskiy, A. Polilov	
		Divergence and aggressiveness within a supercolony	Biological programs against stink bugs in France: diversity of egg parasitoids and deployment strategies?	Methods of early detection of insect outbreak in a Mediterranean forest in Karpathos, Greece, using SENTINEL 2	Fall Armyworm invasion in maize fields in Israel – establishing an insecticide resistance management plan	Advances in the systematics and taxonomy of whitefly parasitoids (Hymenoptera: Chalcidoidea, Platygastroidea)	
		I. Sanmartín-Villar, E. Cruz da Silva, V. Chiara, A. Cordero-Rivera, M. O. Lorenzo-Carballa	A. Bout, R. Hamidi, S. Warot, G. Martel, F. Tortorici, T. Maud, B. Gard, A. Leboulanger, E. Talamas, X. Fauvergue, N. Ris	K. Papadopoulos, C. Vasilakos, S. Papadopoulou	A. R. Horowitz, C. Guzman, D. Sadeh, L. L. Mondaca, S. Sarig	Z. Lahey, R. L. Kresslein, J. Mottern, J. Heraty, A. Polaszek, S. A. Andreason, A. M. Simmons	
		Sib-mating enhances fitness in a haplodiploid beetle	Mortality factors of the red-legged shield bug, Pentatoma rufipes (L.) (Hemiptera: Pentatomidae), an emerging pest in European fruit orchards	The effect of irrigation on the mesofauna of Mediterranean vineyards		**Fruit fly identification: it's apt to use an app**	
		A. Moncaz, R. Ben-Shlomo, Y. Lubin, A. Kliot, A. Harari	T. Haye, R. Bauer Pilla, F. Tortorici	E. Melloul, L. Rocher, R. Gros, A. Bischoff, O. Blight		M. De Meyer, P. Addison, A. Kayenbergh, W. Pieterse, M. Virgillio	
		Mate-finding and mating disruption in the invasive fruit fly Drosophila suzukii				Automated 3D-modeling of small invertebrates	
		A. Reyes-Ramírez*, L. Mouton, E. Desouhant				N. Klug, L. Wührl, K. Rotmann, T. van de Kamp, R. Meier, C. Pylatiuk	
16:30-17:00	**Coffee break- Poster Session I**						
17:00-19:00		**Hall 1**	**Hall 2**	**Hall 3**	**Hall 4**	**Hall 5**	**Hall 6**
		Ecology and Behavior	Biological Control and Biopesticides	Urban and Forest Entomology	Toxicology and pesticide resistance	Morphology and Systematics	Workshop on Bee Identification
		Evolutionary ecology and	**Biological control of orchard**	**Ecology and evolution of bark**	**Toxicology and pesticide resistance III**	**Advances in Diptera & Hymenoptera**	

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	Chairs:	Jeremy Mc Niel	Alejandro Tena	Carole Kerdelhue - Ferenc Lakatos	Ralf Nauen & Thomas Van Leeuwen	Giuliano Gasperi	
		Is polyandry an important adaptive trait of Drosophila suzukii ?	Study of the parasitoid wasp Campoplex capitator in the vineyards of the Centre-Val de Loire Region in France for biological control of the grapevine moth Lobesia botrana.	**Keynote**: Old friends – new challenges, forest insects in Central Europe	**Keynote:** Development of N-arylamide insecticides to control hemipteran pests of agricultural systems	Unusual flight style and bristled wings help miniature beetles to fly faster	
		G. Fiorenza, S. Puppato, D. Carraretto, L. M. Gomulski, G. Gasperi, C. Caceres, A. De Cristofaro, A. Grassi, C. Ioriatti, A. R. Malacrida	M. Leobold, A. Cerqueira de Araujo, R. Ricciardi, P. Scaramozzino, A. Lucchi, K. Musset, J.-M. Drezen, I. Arnault, B. St-Pierre, J.-D. Chapelin-Viscardi, J. Leroy, T. Josse, E. Huguet	F. Lakatos	D. R. Swale	S. Farisenkov, D. Kolomenskiy, P. Petrov, N. Lapina, A. Polilov	
		Weather based prediction module: A promising tool for *Spodoptera litura* anticipation in groundnut?	Effects of Trissolcus japonicus releases on the distribution and parasitism rate of Halyomorpha halys egg parasitoids in Emilia-Romagna region, Northern Italy	pclim.net, a database and web application to explore larval phenology of the pine processionary moth Thaumetopoea pityocampa across its range since 2015	Molecular diagnostics for pesticide resistance monitoring and management of major agricultural pests	Tissue liquid diffusivity and chemical composition changes in trypoxylus dichotomus during pupal stage using Magnetic Resonance Imaging and Spectroscopy	
		M. G. Hegde, R. Sugandi, B. S. Yenagi	A. Masetti, E. Costi, F. Lami, A. Zaniboni, D. Torreggiani, G. Vaccari, S. Caruso, M. Preti, L. Fagioli, F. Manucci, R. Ferrari, M. Bariselli, M. G. Tommasini, G. Burgio, L. Maistrello	M. Laparie, A. Roques and ~100 associated collaborators	K. Mavridis, A. Ilias, K.M. Papapostolou, M. Riga, M. Stavrakaki, C. Bass, T. Van Leeuwen, A. Tsagkarakou E. Roditakis, J. Vontas	S. Ikegami, R. Harada, Y. Oda, K. Niihara, M. Yoshida, K. Honda, T. A. Inoue, K. Kuroda	
		The olfactory basis of Ae. albopictus dominance over Aedes aegypti at the larval stage	Biological characteristics of Anagyrus aberiae (Hymenoptera: Encyrtidae), a parasitoid of the citrus mealybug Delottococcus aberiae (Hemiptera: Pseudococcidae)	In the context of climate change, the pine processionary moth is no longer facing suitable conditions at the southern edge of its range in Tunisia	Highlighting new toxicity biomarkers using volatolome deviation analysis in Apis mellifera chronically exposed to fipronil	A study on colour complexity in Trypocopris vernalis (Linnaeus, 1758) (Coleoptera, Geotrupidae)	
		D. Perets, E. Sar-Shalom, D. Zaada, V. Mackevičius, F. Krsticevic , E. Yakir, J.D Bohbot, P.A Papathanos	E. Romero, M. Benito, A. Soto	A. Bourougaaaoui, M. Laparie, M.L. Ben Jamaa , C. Robinet	V. Fernandes, K. Hidalgo, M. Diogon, J. Ratel, I. Batisson, F. Delbac, E. Engel, P. Bouchard	A. Roggero, G. Zanin, A. Colla, A. Rolando, C. Palestrini	
		Fitness costs in the presence and absence of insecticide use explains abundance of two common Aedes aegypti knockdown resistance alleles found in the Americas	Risk assessment of the fruit fly parasitoid Diachasmimorpha longicaudata (Hymenoptera: Braconidae) on three nontarget tephritids in laboratory bioassays	Effects of temperature-related mortality factors and urban heat islands in the phenology of the pine processionary moth, Thaumetopoea pityocampa	Apis mellifera CYP6AQ1 orthologous genes of four stingless bee species mediate flupyradifurone detoxification	Phylogenomic species delimitation of the twisted-winged parasite genus Stylops (Strepsiptera)	
		Juan Silva	A. Andreani, S. Pinzi, R. Guidi, A. Belcari, P. Sacchetti	C. Bourgade, A. Bourougaaoui, J. Rousselet, M. Laparie, C. Kerdelhue, S Frank, C. Suppo, C. Robinet	X. Xiao, J. Haas, R. Nauen	M. Lähteenaro, J. A. A. Nylander, J. Straka, J. Bergsten	
		Characterization of swarming behavior in Anopheles coluzzii mosquitoes using 3D video tracking.	Comparison of digital and manual traps monitoring against theoretical flights modelling of the European grapevine moth (*Lobesia botrana*) in France in 2022	Back to the future: Assessing the pine processionary moth range shifts according to past,current and future climate conditions	Investigating mortality caused by environmental doses of urban pollutants, the phthalates DnBP and DEHP, on the urban pollinator Bombus terrestris	Unraveling the taxonomic status of the endemic alpine dytiscid Agabus nevadensis by an integrative taxonomy approach	
		S.Vielma, R. Minuz, S. Sawadogo, A. Cribellier, A. Diabaté, F. Muijres, A. Simoni, R. Müller	T. Varraillon, A. Reichart Heude, J.B. Drouillard, J. Pericas, A. Prevors	J.-P. Rossi, K. İpekdal, D.N. Avtzis, C. Burban, J. Rousselet, A. Battisti, C. Kerdelhué	J. Dewaele, A. Vanderstichel, A. Vaneecloo, A.-C. Holl, N. Visez, Y. Piquot, N. Hautekeète, D. Michez, V. Cuvillier	S. Pallarés, J. Ortego, J.A. Carbonell, E. Franco-Fuentes, D.T. Bilton, A. Millán, P. Abellán	
		Some co-evolutionary process at work between egg parasitoids and their host(s): case of the genus Trissolcus.	Disentangling the effects of the invasive pest, Dryocosmus kuriphilus, and the introduced biocontrol agent, Torymus sinensis, on native parasitoids in an isolated insular chestnut-growing area	Does phenology drive population genetic divergence in the pine processionary moth in Bulgaria?	The effect of pesticides on ants	Speciation in troglophilic and parthenogenetic Amblypygi from the Levant	
		A. Bout, N. RIS, S. Warot, and J-L. Gatti	L. Loru, R. Mannu, E. Guerrieri, R.A. Pantaleoni	C. Kerdelhué, M. Georgevia, L. Sauné, G. Zaemdzhikova, G. Georgiev, J. Rousselet, P. Mirchev, M. Laparie	J. Svoboda, P. Pech	E. Gavish-Regev, C. M. Baker, J. A. Ballesteros, S. Aharon, G. Gainett, I. Armiach Steinpress, G. Wizen, P. P. Sharma	
		Flash behaviour increases prey survival against avian predators	The side effects of two Providencia entomophila strains isolated from olive tree insect pests on the egg parasitoid Trichogramma oleae	Upper and smoother! A 50 year-long survey revealed altitudinal changes in forest outbreaks of the larch budmoth in response to climate warming in the French Alps	Summary & Closing Remarks	Crawling in the deep - exceptional subterranean speciation of cryptic troglobitic spiders	
		S. No, C. Kang	I. Ksentini, H. Gharsallah, H. Ben Gharsa, K. Hadj Taieb, M. Sahnoun, M. A. Triki, M. Ksantini, A. Leclerque	A. Roques		S. Aharon, J. A. Ballesteros, G. Gainett, D. Hawlena, P. P. Sharma, E. Gavish-Regev	
		Behavioural adaption of the pink bollworm moth in response to the mating disruptive technique used in cotton fields	Vermicomposted olive mill waste soil amendment as potential pest biological control promoter in olive			Exploring the sympatric cryptic diversity within Colomerus vitis (Acari: Eriophyidae), the vector of Grapevine Pinot gris virus.	
		S. Waner Rips, O. Kolodny, A. Chipman, M. Motro, U. Motro and A. Harari	M. Aguirrebengoa, B. Moreno, N. Guirado, M.L. Fernández, R. Núñez, M.J. Pozo, E. Benítez			M. Bezzez, D. Valenzano, R. S. Mendonça, R. Peixoto, G. Mathieu, V. Gualandri, D. Saccagi, P. Auger, A. Migeon, D. Navia	
19:00-20:00	**Congress Welcome Reception**						
	Tuesday 17 October 2023						
	Hall 1 - Plenary						
09:00 - 10:00	**Plenary lecture - A CRISPR pooled screening platform in arthropod cells**						
	Prof. Dr. Norbert Perrimon						
	Professor of Genetics, Harvard Medical School, Investigator, Howard Hughes Medical Institute, USA, Group Leader, SIB Swiss Institute of Bioinformatics, Department of Ecology and Evolution, University of Lausanne, Switzerland						

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		Ecology and Behavior	Biological Control and Biopesticides	Multitrophic Interactions Insect, Microbial, Host plants	Invasion biology and climate change	Genetics and evolutionary biology	Workshop on Bee Identification
		Chemical communication/engineering	**Entomopathogens as biopesticide**		**Invasion and climate change I**	**Sex Determination**	
	Chairs:	Maria Konstantopoulou, Stefanos Andreadis	Apostolos Kapranas	Anne-Marie Cortesero	Papadopoulos Nikos, Ewelina Czwienczek		
		Moth pheromones produced in cell and plant factories for control of orchard and row crop pests	**Keynote:** Indirect effects of entomopathogenic fungi in biological control	**Keynote:** Chemically-mediated insect-plant interaction across space and time	**Keynote:** EFSA activities on risk assessment and preparedness for invasive alien insects in Europe	**Keynote:** Genetics and evolution of insect sex determination mechanisms: progress and prospects	
		Christer Löfstedt	N. V. Meyling	S. Rasmann	G. Stancanelli, M. Crotta, E. Czwienczek, C. Gardi, A. Gobbi, A. Kaczmarek, P. Kariampa, V. Kertesz, A. Maiorano, J. Mercadal, A. Mikulova, M. Pautasso, E. Rossi, O. Sfyra, F. Streiss	L. Beukeboom	
		Expanding the toolbox for detection and monitoring of cerambycid beetles: Identification and testing of a variety of new pheromone structures	Interactions between entomopathogenic fungi and entomopathogenic nematodes in microbial control	**Invited speaker:** How plant microclimates modulate the vulnerability of insects to climate change	Efficacy of entomopathogenic fungi and nematodes against Popillia japonica adults and larvae in potted plants.	**Keynote:** Endosymbionts induce parthenogenesis by manipulation of sex determination gene transcripts	
		J. G. Millar, W. D. Silva, Y. Zou, L. M. Hanks	E. Tarasco, Y. El- Khoury, L. Ruiu, V. Půža	S. Pincebourde, M. Leclerc, G. Deconninck	G. P. Barzanti, G. Torrini, F. Knecht, C. Benvenuti, I. Iovinella, C. Sciandra, F. Barbieri, S. Simoncini, S. Amoriello, G. Mazza, G. Sabbatini Peverieri, A. Strangi, F. Paoli, G. Grabenweger, L. Marianelli	E. Geuverink, M. van Leussen, F. Chen, L. van de Zande, L.W. Beukeboom	
		Seven decades of ant chemical ecology – retrospect and prospects	When competitors join forces: using consortia of entomopathogenic Pseudomonas bacteria, nematodes and fungi for pest control	Biological control of Lepidopteran grapevine pests: plant and insect host mediated bottom-up effects of elevated CO2. Lessons from a VineyardFACE facility.	Bagrada bug in Europe vs America: insights on biological traits, genetics, invasion pattern and management	Fertility related long non-coding RNAs as novel species-specific insect control targets	
		A. Hefetz	A. Spescha, M. Zwssig, M. Hess Hermida, J. Weibel, A. Moix , L. Wyser, M. Brunner, F. Scheibler, A. Guyer, P. Bruno, J. Enkerli, R. Campos-Herrera, G. Grabenweger, M. Maurhofer	C. Becker*, L. Capponi, K. Herrmann, A. Rummel, A. Reineke	RFH Sforza, M-C. Bon, A. Mazih, D. Mifsud, M. Cristofaro	A. Belavilas-Trovas, M.-E. Gregoriou, S. Tastsoglou, L. Katsiamani, A. Spanomitrou, O. Soukia, A. Giakountis, K. D. Mathiopoulos	
		Male sex pheromones in parasitic wasps of the Nasonia group	Entomopathogenic fungi are compatible with a parasitoid for Spodoptera littoralis (Boisduval) control while inducting ISR mechanisms in melon under greenhouse conditions	The effect of climate change on a *Bemisia tabaci* based pathosystem	Hymenoptera parasitoids (Eulophidae and Braconidae) of the Lime Leaf Miner Phyllonorycter issikii (Lepidoptera, Gracillariidae): in invasive areas of Europe and Asia	Post-mating response in a viviparous species: the case of Glossina morsitans	
		J. Ruther	F. García-Espinoza, M. Yousef-Yousef, M.J. García, M. Cuenca-Medina, E. Quesada-Moraga	M. Ripamonti, M. Eickermann, J. Junk	I. V. Ermolaev, Z. A. Yefremova	I. Rossi, D. Carraretto, G. Fiorenza, F. Scolari, F. Forneris, G. Mancini, S. Liberi, M. Peviani, M. Spatafora, A. Gazzano, L. M. Gomulski, G. Gasperi, D. Parkinson, S. Aksoy, A. R. Malacrida, G. Attardo	
		Differences in responses of green lacewings to methyl salicylate (Neuroptera: Chrysopidae)	Laboratory and field evaluation of entomopathogenic fungi, bioinsecticides and RNAi for Colorado potato beetle (Leptinotarsa decemlineata, Coleoptera: Chrysomelidae) control	Endophytic *Beauveria bassiana* modifies flowering phenology, floral volatile profile and pollinator behaviour in melon	Quantitative risk assessment of the lesser cornstalk borer, Elasmopalpus lignosellus (Lepidoptera: Pyralidae), for the European Union	Spontaneous parthenogenesis and sex determinism in the parasitoid wasp Cotesia typhae	
		S. Koczor, F. Szentkirályi, J. Vuts, J. C. Caulfield, D. M. Withall, J. A. Pickett, M. A. Birkett, M. Tóth	J. Razinger, M. Petek, K. Gruden, E. Praprotnik, Š. Modic, P. Dolničar, P. Žigon	N. González-Mas, M. Cuenca-Medina, H. García-Mozo, J.M. Muñoz-Redondo, J.M. Moreno Rojas, F. Padilla-Álvarez, I.M. Rodríguez-Gómez,E. Quesada-Moraga	E. Czwienczek, J. López-Mercadal, A. MacLeod, A. Maiorano, R. Mally, O. Mosbach-Schulz, E. Rossi, G. Stancanelli & W. van der Werf	C. Capdevielle Dulac, R. Benoist, S. Paquet, P.-A. Calatayud, J. Obonyo, L. Kaiser, F. Mougel	
		Uncovering regional variation in sexual communication in the invasive pest species Spodoptera frugiperda in Africa	Assessing interactions among Beauveria bassiana, western corn rootworm larvae and maize	Defense priming in cauliflower (*Brassica oleracea*) by the entomopathogenic fungus *Metarhizium robertsii*	Genomic architecture informs the spread of Spodoptera frugiperda and Lobesia botrana	The role of the antagonistic pleiotropy on the genetic variability of thermal tolerance in Drosophila melanogaster	
		R.A.H. van Schaijk, E.R. Burdfield-Steel, A. Vartak, I.J. Luirink, M. D. Akinbuluma, A.G. Hussain, V.I.D. Ros, F.C. Griepink, G.G. Goergen, F.M. Khamis, S. Subramanian, B. Torto, A.T. Groot	A. Kropf, A. Gassmann	Y. Qing, M. Ourry, M. Burow, N. V. Meyling, T. P. Hauser	W.T. Tay, A. Popa-Baez, D. Cho, T. Hobarty, T. Walsh, K. Gordon[1], R. Rane	J. Soto, P.Olguin, L.E. Castañeda	
		Semiochemical pre-treatment reduces the response of Bactrocera dorsalis to methyl eugenol under semi-field conditions	The feasibility of using Entomopathogenic nematodes for Mediterranean fruit fly control	The endophytic role of the entomopathogenic fungus *Beauveria bassiana* in agricultural plant protection against *Spodoptera littoralis* larvae	Niche modelling and landscape genetics of the yellow-legged hornet (Vespa velutina): an integrative approach for evaluating central–peripheral population patterns in Europe.	Mitochondrial genotype decreases mitochondrial respiration in seed beetles: implications for male subfertility	
		T. Pogue, K. Malod, C. Weldon	A. Kapranas, S. Antonatos , P. G. Milonas, D. P Papachristos, A. Peters	I. Di Lelio, A. Becchimanzi, E. Barra, C. Clavé, M.G. De Luca, G. Magoga, G. Forni, E. Perdereau, G. Dubreuil, M.C. Digilio, M. Montagna, D. Giron, F. Pennacchio	C. Herrera, M. Alice Pinto. M. Leza, J.A. Jurado-Rivera	L. Vlajnić, U. Savković, K. Pavlović, N. Krako Jakovljević, T. Ivanović, S. Budečević, B. Stojković, S. Pešić, F. Vukajlović, D. Predojević, A. Mitrovski Bogdanović, O. Stojković, M. Đorđević	
						Finding the Y: a step towards improving the assemblies of Y chromosomes	

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						D. Rallis, K. Mathiopoulos, A. Papanicolaou	
12:30-13:30	**Lunch break**						
13:30-15:00	**Poster Session II**						
15:00-17:00		**Hall 1**	**Hall 2**	**Hall 3**	**Hall 4**	**Hall 5**	**Hall 6**
		Ecology and Behavior	Biological Control and Biopesticides	Multitrophic Interactions Insect, Microbial, Host plants	Invasion biology and climate change	Genetics and evolutionary biology	Workshop on Bee Identification
		Biotic- Abiotic Factors I	**Conservation Biological Control**	**Tba**	**Invasion and climate change II**	**Evolutionary Genomics I**	
	Chairs:	Jocelyn Millar	Filitsa Karamaouna	Maria Pappas	Anna Swynisewska		
		Development of Three-Dimensional Models for Numerical Simulations of Insect Exposure to Radio-Frequency Electromagnetic Fields	Using cover crops and landscape features to promote biological control in vineyards: an Australian study	**Keynote:** Symbiotic microbes as driving forces of evolutionary innovation in beetles	Invasapp: early detection tools for invasive insect species on Mediterranean islands	**Keynote:** Approaching the mechanistic basis of Disease Tolerance in Drosophila melanogaster	
		P. De Boose, M.Boone, M. Bouga, E. Danneels, R. Declercq, J. Fröhlich, F. Hatjina , A. Huss, I. Josípovic, M. Stavrinides, Z. Thanou , A. Tsagkarakis, A.Varnava , M. Zahner , A.Thielens	G.M. Gurr, J. Liu, A.E. Johnson, J. Smith	M. Kaltenpoth	M. Leza, C. Herrera, A. Juan, M. Mascaró, G. Cardona, S. Hervias, A. Traveset	P.A. Akyaw, D.S. Roque, T.F. Paulo, D. Duneau, E. Lafuente, É. Sucena	
		Modelling the impacts of light pollution on UK moth populations at two temporal resolutions	Functional Agrobiodiversity supports pollination and pest control in agricultural landscapes	Diversity, transmission and function of the microbiota of a root phytophagous insect	Spread of the lime butterfly Papilio demoleus in Europe: Projection of environmental suitability using citizen science data	A supergene underlies social polymorphism in the desert ant Cataglyphis niger	
		I. Hayes, J.J. Bennie, K.J. Gaston, J.R. Bell	Z.A. van Rossum, F.L. Wäckers, A. Janssen, P.C.J. van Rijn	J. Carpentier, S. A. P. Derocles, L. Lebreton, J. Linglin, A. M. Cortesero, C. Mougel	E. Tzirkalli, B.Beckmann, D. Chapman, M. Wiemers	A. Lajmi, P. Cohen, C.C. Lee, Z. Frenkel, E. Privman	
		Impact of ozone on the behavior of pollinators	European ants: friends or foes in the biological control of agricultural pest insects?	Effects of caterpillar's diet and gut microbiota on the tomato defense response upon herbivory by two *Spodoptera* species	Phenotypic plasticity in initial introduction phase and its discrepancy effect for artificially intelligent identification of economic Thysanoptera	Lipid metabolism dysfunction in the Tsetse Fly following symbiont elimination is linked to altered Kennedy pathway homeostasis	
		M. Vanderplanck, B. Lapeyre, M. Brondani, M. Opsommer, S. Lucas, M. Proffit	E. Schifani, D. Giannetti, C. Castracani, F.A. Spotti, A. Mori, D.A. Grasso	E. García-Marín, J. Gamir, M. C. Crava	P. Fedor, M. Štefánik, M. Zvaríková, R. Masarovič, Z. Ježová, J. Balcerčík, P. Prokop, J. Fedorová	G.M. Attardo, J. Benoit, V. Michalkova, A. Kondragunta, A. Baumann, B. Weiss, A. Malacrida, F. Scolari, S. Aksoy	
		Comparative assessment of heat tolerance in weevils associated with a fire-prone ecosystem	Pest and beneficial arthropod responses to hedging in southeast USA pecan systems	Parasitic wasps alter the microbiome and body odours of caterpillar hosts, with consequences for higher tropic levels	Guardians of plant health – the European Union Reference Laboratory for Insects and Mites	Evolved transcriptional responses and their regulation after long-term adaptation of Bemisia tabaci to a marginally-suitable host	
		M. Javal, J. S. Terblanche, C. Smit, J. Haran[3]	P. Toledo, A. Acebes, J.M. Schmidt	G. Gloder, M. Bourne, B. Weldegergis, M. Slingerland, A. Ceribelli, S. Crauwels, B. Lievens, H. Jacquemeyn, M. Dicke, E. Poelman	S. Blümel, R.A. Gottsberger, C.Lethmayer, R.Mouttet, P.Rousse, A.Taddei, H.Reisenzein, P.Reynaud	E. Tadmor, H. Marshall, N. Grandebul, D. Santos-Garcia, S. Morin	
		Two common invasive whitefly cryptic species (B and Q) interact differentially with old-world and new-world begomoviruses	Pre-designed cover crops in citrus to build up complex trophic webs: Implications on Conservation Biological Control.	CaMV and TuYV modify the post-acquisition behavior of aphids with consequences on virus transmission	Predicting the impact of constant and variable temperatures on Neotropical stink bugs using Dynamic Energy budgets	Identification of the microRNAs involved in the regulation of aestivation in the cabbage stem flea beetle (Psylliodes chrysocephala)	
		R. Srinivasan, S. Gautam, H. Mugerwa, S. Ghosh, B. Dutta, Judy Brown, S. Adkins	A. Casiraghi, A. Urbaneja, C. Monzó	M. Verdier, R. Baltenweck, P. Hugueney, M. Drucker, Q. Chesnais	E. Klagkou, A. Gergs, C. U. Baden, K. Lika	D. Cedden, G. Güney, M. Rostás, S. Scholten	
		Biological oscillator activity in relation to seasonal migrations of two European nymphalid species – V. atalanta and V. cardui	Understorey biodiversity management in olive cultivation for integrated management of natural enemies	Is *Tomato yellow leaf curl virus* an attractant or repellant for whitefly predatory beetles?	Influence of temperature on biological control of the codling moth Cydia pomonella (L.) by two natural enemies.	Interaction between the parasitoid Cotesia typhae and its host Sesamia nonagrioides studied through transcriptomic and proteomic approaches: insights into virulence and resistance traits	
		M. M. Chrzanowski, E. Fuszara, R. Stryjek, M. H. Parsons, P. Bebas	G. Stavrianakis, S.R. Statteger, E. Sentas, I. Grumic, A. Tsamakda, T. Tscheulin, A. Kizos	T. L. Jones, S. A. Andreason, A. M., Simmons, Z.Lahey	M. Perrin, T. Delattre, M. Siegwart, H. Dib, E. Melloul, J. Moiroux	S. Gornard, C. Capdevielle-Dulac, P. Venon, F. Lasfont, L. Kaiser, F. Mougel	
		Myrmecomorphy in the predatory mirid Pilophorus gallicus: living between the devil and the deep blue see	Pesticides increase food and macronutrient deficiency levels in beneficial carabid beetles	Gut content analysis in predatory mites as a tool to reveal trophic interactions in vineyards	An ecological index for arthropod habitats using climate model data applied to the Circum-Sicilian islands	Complex inversion polymorphism landscape in spruce bark beetle	
		D. Cabanillas, L. Perera-Fernández, A. Carrasco, M.C. Ortín-Angulo, C. Sánchez-Marín, J.A. Sanchez	N. Noreika	S. Legarrea, R. Campos-Herrera, E. Martínez-Villar, S. Ibáñez-Pascual, V. Marco-Mancebón, I. Pérez-Moreno	J.M. Ciarlo*, E. Coppola, A. Micallef, D. Mifsud	A. Mykhailenko, P. Zieliński, K. Nadachowska-Brzyska	
		Poison or potion: An infected bee story	Exploring the relationship between Nesidiocoris tenuis and Trichoderma harzianum in tomato plants under water stress		Assessing the impact of climate change on fungal pathogens and insect pests in wheat: A joint species distribution model approach		
		A. Gekière, I. Semay, A. Michel, L. Marin, C. Tourbez, M. Begou, M. Gérard, P. Gerbaux, D. Michez, M. Vanderplanck	P.Urbaneja-Bernat*, C. Denis, J. Ojeda, O. Alomar, J. Riudavets, J. Arnó,		B.X. Wang, A. R. Hof, K. D. Matson, F. van Langevelde, C.S. Ma		
17:00-17:30	**Coffee break**						
17:30-19:30		**Hall 1**	**Hall 2**	**Hall 3**	**Hall 4**	**Hall 5**	**Hall 6**
		Ecology and Behavior	Biological Control and Biopesticides	Multitrophic Interactions Insect, Microbial, Host plants	Invasion biology and climate change	Genetics and evolutionary biology	Workshop on Bee Identification
		Biotic- Abiotic Factors II	**Greenhouses and other topics**	**Tba**	**Invasion of Popillia japonica in Europe and management approaches**	**Evolutionary Genomics II**	
	Chairs:	Ruth Muller	Gerben Messelink	Chair: David Giron	Chairs: Francesco Nardi, Nelson Simoes		

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		The sugar diet and associated environmental compounds in the crop of the mosquito Culex pipiens.	Expanding the use of Orius predatory bugs for the control of foliar pests in floriculture	**Keynote:** Aphid herbivory on macrophyte drives real-time evolution of the aquatic community	**Keynote:** Is integrated pest management suitable to control a regulated quarantine pest? Prospects and limitations of IPM against Popillia japonica in Europe	**Keynote:** Patterns of genome evolution of the arboviral vector Aedes aegypti	
		B. Leyva, M. Brustolin, R. Müller, F. Yon	A. Mouratidis, M. Dicke, G.J. Messelink	S. Xu, M. Schäfer, A. Malacrino, C. Walcher, P. Spaak, C. Vorburger, D. Ebert	G. Grabenweger	A.N. Lozada-Chávez, I. Lozada-Chávez, N. Alfano, U. Palatini, D. Sogliani, S. Elfekih, T. Degefa, M.V. Sharakhova, A. Badolo, S. Patchara, M. Casas-Martinez, B.C: Carlos, R. Carballar-Lejarazú, L. Lambrechts, J.A. Souza-Neto, M. Bonizzoni	
		Food plants and their localization by the sugar beet weevil Asproparthenis punctiventris	Control of Bemisia tabaci MEAM1 on poinsettia using pallidus beetle, Delphastus pallidus LeConte applied either directly or by a papaya banker plant system	Under the radar: The preference for volatiles from plants infested with small and young aphid colonies may help aphid parasitoids to avoid intraguild predation	How reachable is Europe for the Japanese beetle: tracking planes, trains and trucks to inform surveillance strategies	Thermal evolution during range expansions toward warmer and cooler regions in the damselfly species Ischnura elegans	
		E.H.Koschier, L. Dittmann	C. L. McKenzie, M.Z. Ahmed, L. S. Osborne	I.Vosteen, T. Bourgoise, C. Unger, M. Rostàs	L. Borner, D. Martinetti, S. Poggi	J.A. Carbonell, Y.-J. Wang, A. Sentis, R. Stoks	
		Are aphids a source of medicine for ants?	Building a better banker plant by incorporating predatory pallidus beetles, Delphastus pallidus LeConte (Insecta: Coleoptera: Coccinellidae), into the papaya banker plant system	*Tomato trichomes and its effect* on the development and dispersal of *Tetranychus urticae* and of its promising biological control agent the phytoseiid mite *Typhlodromus (Anthoseius) recki*	Tracing the dispersal route of the invasive Japanese beetle Popillia japonica	Interfering with the microRNA pathway in aestivating cabbage stem flea beetle (Psylliodes chrysocephala)	
		J. Rissanen, Danaë Nyckees, Torsten Will, H. Helanterä, D. Freitak	M.Z. Ahmed , C. L. McKenzie, L. S. Osborne	L. Tabary, D. Navia, M-S. Tixier, P. Auger, A. Migeon, M. Navajas	A. Strangi, F. Paoli, F. Nardi, K. Shimizu, T. Kimoto, I. Iovinella, G. Bosio, P. F. Roversi, A. Carapelli, L. Marianelli	G. Güney, D. Cedden, F. Beran, S. Scholten, M. Rostás	
		Fungal infection alters collective nutritional intake of ant colonies	Investigating factors affecting the Eretmocerus eremicus parasitism level by comparative studies on two Bemisia tabaci populations from Greece	**Invited speaker:** Induced resistance by arbuscular mycorrhizal fungi in tomato: a new tool for integrated pest management programs	Draft de novo assembly and annotation of the nuclear genome of Popillia japonica from the invasive Italian population	Novel molecular approaches to study malaria transmission and mosquito-parasite-human interplay	
		E. Csata, A. Pérez-Escudero, S. Cremer, S. J. Simpson, A. Dussutour	G. Konstantara, E. Roditakis	Z. Minchev, B. Ramirez, M. Aguirrebengoa, M. Garcia-Alonso, J. Retamal, J.M. Garcia, J. Rivero, J. Lidoy, L. Dejana, A. Frattini, E. Berrio, J.A. Lopez Raez, A. Martinez Medina, S. Herrero, V. Flors, E. Benitez, M.J. Pozo	C. Cucini, S. Boschi, R. Funari, E. Cardaioli, N. Iannotti, G. Marturano, F. Paoli, M. Bruttini, A. Carapelli, F. Frati, F. Nardi	G. Bevivino, M.G Dipaola, E. Perugini, M. Pombi, B. Arcà, F. Lombardo, D. Modiano	
		A beta-glucosidase of an insect herbivore determines both toxicity and deterrence of a dandelion defense metabolite	Differential effects of fungal biocontrol agents on spider mites under different application methods and environmental conditions	Beneficial microbes to optimize pest control in sustainable tomato production	Searching for the role of the microbiome in the population growth of Popillia japonica	Horizontal Gene Transfer (HGT) Contributes to the Evolution of Bemisia tabaci	
		M. Huber, T. Roder, S. Irmisch, A. Riedel, S. Gablenz, J. Fricke, P. Rahfeld, M. Reichelt, C. Paetz, N. Liechti, L. Hu, Z. Bont, Y. Meng, W. Huang, C. Robert, J. Gershenzon, M. Erb	Z.Q. Xie, M. Ourry, N.V. Meyling	M. L. Pappas, K. Samaras, P. Ntalia, S. Mourtiadou, T. Arampatzis, M. Avramidou, M. Feka, M. Kakagianni, A. Weinhold, A. Steppuhn, N. M. van Dam, K. Papadopoulou, G. D. Broufas	J. Frias, A. Garriga, Á. Ros, M. Teixeira, R. Beltrí, D. Toubarro, N. Simões	O. Malka, D. Wintraube, O. Aidlin Harari, E. Tadmor, D. Santos-Garcia, S. Morin	
		What's on the menu? Investigation of the feeding behaviour of the brown marmorated stink bug Halyomorpha halys using a molecular gut analysis	TBA	The multifaceted nature of the modulation of plant responses to insect herbivory by beneficial microbes	Popillia japonica infestation in Northwestern Italy: main damage in agricultural crops and challenges in pest control	Insights into comparative phylogeography patterns of *Pyrrhalta viburni,* a specialist leaf feeder of *Viburnum* plants and its associated egg parasitoid *Aprostocetus* as part of a biological control program	
		M. Fluch, E. Corretto, S. Fischnaller, L. Borruso, H. Schuler	TBA	A. Biere, S. Engelbertink, F. Gawehns-Bruning, S. Ivanovic	G. Bosio, M. Vigasio, E. Giacometto	M.C. Bon, G. Desurmont, L. Ribon Chaudat, F. Guermache, E. Kerdellant	
		Life history traits and immune investment in the black soldier fly are affected by larval density	Evaluation of the parasitoid *Cotesia typhae* for augmentative biological control of the Mediterranean corn borer *Sesamia nonagrioides*	Microbe-Induced Resistance against Tuta absoluta: from the lab to the field	Attract-and-infest strategy to biologically control Japanese beetles	Intraspecific variation and molecular phylogeny of *Scaphoideus titanus* using complete mitogenomes	
		L. O. Opare, H. Meister, S. Holm, A. Kaasik, A. Lecocq, A.B. Jensen, T. Esperk	T. M. Fortuna, I. Ruiz, J. Manson, R. Jeannette, A. Peyhorgue, J.B. Thibord, L. Kaiser	Z. Minchev, B. Ramírez-Serrano, O. Kostenko, D. Giron, R. Soler, V. Flors, M.J. Pozo	M. Wey, M. Maurhofer, G. Grabenweger	J. S. Enciso, E. Corretto, J. Dittmer, A. Moussa, E. Gonella, A. Alma, H. Schuler	
		Host size overrides maternal effects on development of a secondary hyperparasitoid wasp	Assessing risk for non-target species before introducing an exotic parasitoid for biocontrol of the corn stemborer Sesamia nonagrioides in France				
		X. Shi, J.G. de Boer, R. Gols, JA. Harvey	T. M. Fortuna, M. Le Gonnidec, R. Jeannette, B. Le Ru, F. Mougel, L. Kaiser				

Wednesday 18 October 2023

Hall 1 - Plenary

09:00 - 10:00 **Plenary lecture - Scaling up data production and management systems to catalogue explore and monitor the richness of arthropod biodiversity**

Prof. Robert M. Waterhouse

Swiss National Science Foundation Professeur Boursier, Group Leader, SIB Swiss Institute of Bioinformatics, Department of Ecology and Evolution, University of Lausanne, Switzerland

10:00 - 10:30 **Coffee break**

10:30 - 12:30	**Hall 1**	**Hall 2**	**Hall 3**	**Hall 4**	**Hall 5**	**Hall 6**
	Medical and Veterinary Entomology	Symbiosis and Insect Pathology	Insect Biotechnology	Invasion biology and climate change	Physiology and Biochemistry	Bioprotection Symposium

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		Paradigms of "One Health" approach in combating vector borne diseases (VBDs)	**Reproductive manipulation and more: symbiont-mediated host alterations**	**Improved methods for RNAi-mediated pest control (part 1)**	**Fruit fly invasion**	**Recent insights into peptide research in insects**	
	Chairs:	Smaro Sotiraki, Mary Cameron	Laurence Mouton and ...	Gianluca Tettamanti, Luc Swevers, Vassilis Douris	Nikos Kouloussis and Marc Schetelig	Marianne Alleyne	
		Keynote: CLIMOS PROJECT - In-depth study for knowledge and comprehension of climate and environmental drivers of sand fly borne diseases	**Keynote:** Invasion dynamics of Wolbachia in cherry fruit flies	**Keynote:** RNA-based biocontrols: successes, challenges, and learnings in different insect species	**Keynote:** Invasion of the fruit fly Bactrocera dorsalis (Tephritidae), with a focus on the Indian Ocean Islands, a threat to Europe	Keynote: Silencing FMRFamide-like peptide (FLP) and short neuropeptide F (sNPF) leads to alter lipid metabolism in Leptinotarsa decemlineata (Coleoptera: Chrysomelidae)"	Combining chemical ecology and conservation biological control: flower-associated microbes impact nectar traits with consequences for insect parasitoids
		G. Bongiorno, M. Athanatos, E. Berriatua, S. Blesic, R. Charrel, O. Courtenay, V. Foglia Manzillo, J.J. Saenz De La Torre, J. Depaquit, V.D. Dvorak, O. Erisoz, F. Ferraro, M. Maia, N. Gligoric, V. Gligorijevic, D. Guardado, G. Hamilton, N. Hempelmann, T. Hatzakis, V. Ivovic, E. Kniha, L. Orshan, Y. Ozbel, S. Paz, F. Robert-Gangneux, J. Sadlova, L. Samaniego, D. San Martin, S. Topluoglu, F. Van Langevelde, P. Volf, D. Wright, C. Maia	H.Schuler	O. Christiaens, M. Beghyn, K. Cappelle, R. Lacombe	H. Delatte, L. Moquet, P. Deschepper, M. Virgilio	U. Toprak, C. Doğan, S. Ghanbari, G. Söylemezoğlu	S. Colazza, J. D. Ermio, P. Bella, E. Peri, A. Cusumano	
		Mosquito and avian-based West Nile virus (WNV) surveillance systems as an integral component of integrated vector control (IVM) programs	Complex host modifier systems control two symbiont-mediated reproductive phenotypes in a tetranychid mite	RNAi in Integrated Pest Management	Exploring the Impact of Changing Climate and Irrigation Patterns on the Potential Distribution of Organisms: Insights from Fruit Fly Case Studies	Short Neuropeptides F regulate feeding related processes in *Tenebrio molitor* beetle	Enhancing ecosystem service provision for EcoStacking: an oilseed rape exemplar
		A. Chaskopoulou, C. Billinis, M. Miaoulis, S. Mpellou, L. Georgiou, V. Diamantopoulos	N. Wybouw, F. Mortier, E. Van Reempts, J. Zarka, F. Zélé, D. Bonte	K. De Schutter	A. M. Szyniszewska, T. Beale, G. López-Saldaña, B. Taylor, N. Papadopoulos, K. Kozyra, H.Gąsiorowska, N. Ota, D. J. Kriticos	K. Walkowiak-Nowicka , J. Lubawy, A. Urbański A., S. Chowański, P. Nowicki, D. Mańczak, D. Wojtalik, P. Marciniak	S. M. Cook, M. Plećaš, D. M. Evans, J. P. Cuff, J. M Blanco Moreno, S. Saussure, S. J. Himanen. J. Winkler, S. Kirchner, V. Harizanova, T. T. Høye, P. Ortega-Ramos, G. Seimandi-Corda
		Risk assessment of (re)-emerging arbovirosis in Southern Europe	Zombie-flies: Is symbiosis at the heart of behavioural manipulation by an insect-destroying fungus?	The quest for the best dsRNA target sequences for pest control by a genome wide screen	Innovative Sexing Systems for Insect Pest Control through Sterile Insect Technique (SIT) within the REACT program	Unveiling the neuropeptidome and functions of adipokinetic hormones in Blattodea	Novel Bioprotection through Bio-inspired Pest Control Technologies
		M. Falcinelli, C. Damiani, A. Cappelli, I. Ricci, G. Favia	S. Edwards, K. Nor Nielsen, H.H. De Fine Licht	B. Büer, J. Dönitz, S. Mehlhorn, J. Ulrich, D. Großmann, R. Nauen, S. Geibel, G. Bucher	M. F. Schetelig	S. Jiang , H.G. Marco, N. Scheich, S. He, Z. Wang, G. Gäde, D. P. McMahon	M. Edwards, A. Gatehouse
		A social-ecological systems approach to tick and tick-borne disease risk: exploring local actor engagement in collective action tick bite prevention strategies in the Occitanie region in southern France	Diversity in symbiont-mediated killing and integrity of defensive symbiosis at extreme temperatures underpin protective efficacy in an anti-parasitoid insect-bacterial symbiosis.	Advances towards RNA interference-based management of Brassicogethes aeneus	Response of adults of geographically distant populations of the Mediterranean fruit fly to different temperature regimes	Tachykinin-related peptides modulate immune system activity of mealworm beetle, *Tenebrio molitor* L	Fitting parasitoids into ecological networks to improve pest control in crops
		I. Zortman, A. Binot, L. Vial, T. Pollet	R. Kucuk, K. Oliver	T. Kallavus, J. Willow, L. Soonvald, S. Sulg, R. Kaasik, E. Veromann	A.G. Papadopoulos, P.M. Koskinioti, P.N. Stavrakis, N.T. Papadopoulos	A. Urbański, N. Konopińska, K. Walkowiak-Nowicka, J. Lubawy, P. Marciniak, Sz. Chowański, J. Rolff	D. M. Evans
		Sandflies vectors of Leishmania infantum in Greek islands	Wolbachia-induced cytoplasmic incompatibly to control Drosophila suzukii	Development of a Novel Biopesticide using an RNA Interference Approach Targeting Potassium and Fibroblast Growth Factor in Helicoverpa armigera	Effects of thermal history and ambient temperature on the flight performance of the Mediterranean fruit fly	"Am I overweight?" New insights into Adipokinetic hormone (AKH) pathway in Colorado potato beetle *Leptinotarsa decemlineata* (Coleoptera: Chrysomelidae)	Setting the scene for a scientifically sound risk assessment of low-risk pesticides
		P. Ligda, A. Saratsis, S. Sotiraki	A. Auguste, P. Decoeur, T. Laffargue, L van Oudenhove, J Blackwood, N. Ris, L. Mouton, X Fauvergue	F. M. Afifi, A. M. R. Gatehouse, M. G. Edwards	E-M. D. Bali, E. Bataka, V. G. Rodovitis, J. Terblanche, N. T. Papadopoulos	S. Ghanbari, G. Söylemezoğlu, U. Toprak	D. G. Karpouzas
		Vector borne diseases: an expanding health threat for animals and humans	Evolutionary history of Cacopsylla species and their little helpers: diversity of endosymbionts and their co-evolution	RNAi-mediated knockdown of essential central nervous system genes as a potential Spodoptera littoralis control strategy	Temperature-induced plasticity on the thermal tolerance landscape in Drosophila suzukii	Effect of the rearing diet on the gene expression of antimicrobial peptides in *Tenebrio molitor* L. (Coleoptera: Tenebrionidae)	Agroecology and landscape management to reinforce ecosystem services
		S Sotiraki, P. Ligda	E. Corretto, L. Štarhová Serbina, J. Dittmer, J.M. Howie, C. Stauffer, H. Schuler	C Start, M Edwards, A Gatehouse	L.E. Castañeda, J. Soto, F. Pinilla, M. Villegas, P. Irles	V. Candian, M. Dho, R. Tedeschi	D. A. Landis
		Molecular detection of Leishmania DNA and blood meal analysis in wild caught Phlebotomus (Larroussius) species.	Effects of high temperatures exposure on Halyomorpha halys (Hemiptera: Pentatomidae) and its bacterial endosymbiont Pantoea carbaekii	Optimization of small interfering RNAs derived from double-stranded RNAs for enhanced pest control	Thermal preference plasticity of a major pest: a key to its invasion success?	Comparative efficacy of a recombinant and chemically-synthesized spider toxin peptide against *Leptinotarsa decemlineata* (Coleoptera: Chrysomelidae)	
		L. Remadi, M. Jiménez, N. Chargui, M. Ricardo, E. Gonzalez, S. Belgacem, N. Haouas, H. Babba	E. Mirandola, M. Locatelli, I. Martinez-Sanudo, G. Bertoldo, P. Stevanato, P. Tirello, D. Scaccini, A. Pozzebon	D. Cedden, S. Scholten, G. Bucher	G. Deconninck, V. Foray, S. Pincebourde	P. Öztekin, S. Ghanbari, G. Söylemezoğlu, E. Akar, S. Özçubukçu, C. Özen, U. Toprak	
12:30-13:30		**Lunch break**					
13:30-15:30		**Hall 1**	**Hall 2**	**Hall 3**	**Hall 4**	**Hall 5**	**Hall 6**
		Integrated Pest Management	Symbiosis and Insect Pathology	Insect Biotechnology	Invasion biology and climate change	Physiology and Biochemistry	Bioprotection Symposium
		Plant defenses, elicitors and antagonists	**Nutritional symbiosis and insect rearing**	**Discovery and engineering of viruses and micro-organisms for improved pest control**	**Invasive arthropods affecting human and animal health**	**Unique Physiological Adaptations in Insect Development and Survival**	
	Chairs:	Alberto Urbaneja	Vera Ros and...	Luc Swevers, Vassilis Douris	Antonios Michaelakis, Anastasia Accoti	Morena Casartelli	
		Keynote: Plant Defenses in Integrated Pest Management	**Keynote:** Contribution of microbiota in mosquito nutritional ecology	Keynote: Discovery and engineering of viruses and microorganisms for improved pest control	**Keynote:** How climate and invasion can shape the transmission of vector-borne diseases	Keynote: Launching engineered prototypes to better understand the factors that influence the click beetle jump	Volatile interaction between undamaged plants suppress aphid in cultivar mixtures

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		M. L. Pappas	C. Valiente Moro	M. Ghanim	M.B. Thomas	L. Zhang , T. Mathur, A. Wissa, M. Alleyne	V. Ninkovic, S. Kheam, M. Rensing, A. Tous-Fandos, D. Markovic, G. Martinez, J. Gallinger, F. Xavier Sans
		Conspecific and non-conspecific airborne cues prime Brassica napus defence response.	Probiotic bacteria can improve insect health of mass-cultured housefly larvae reared for animal feed	PIWI proteins play an antiviral role in lepidopteran cell lines	Modelling how climate change will affect the distribution of arthropod-borne disease across Europe; a case study on West Nile Virus and the invasive vector Culex modestus in the UK.	Obligate diapause and its termination in a frozen state are essential for the seasonal life cycle of the Antarctic midge	Insect multitrophic interactions and bioprotection
		P. Otto, G. Célestin, M. Valantin-Morison, F.G Pashalidou	A. Voulgari Kokota, J. Falcao Salles, B. Wertheim, L.W. Beukeboom	D. Santos, T-W. Verdonckt, L. Mingels, S. Van den Brande, B. Geens, F. Van Nieuwerburgh, A. Kolliopoulou, L. Swevers, N. Wynant, J. Vanden Broeck	A. J. Withers, S. Croft, R. Budgey, N. Johnson	M. Yoshida, S. G. Goto	F. Pennacchio
		Entomopathogenic fungus-related priming defense mechanisms in cucurbits impacts on Spodoptera littoralis (Boisduval) fitness	Effects of Asaia bacteria on mosquito fitness for improvement of SIT programs	Assessment of insect virus-like particles as nano-vehicles for efficient dsRNA delivery in insect tissues and cells	Trade-offs between desiccation tolerance and midgut permissiveness to arboviruses in Ae. Aegypti	Regulation of *corpora allata* activity: allatoregulary factors and feedbacks.	Tomato prosystemin as novel source of bioactive peptides
		F. García-Espinoza, M.J. García, E. Quesada-Moraga, M. Yousef-Yousef	A. Roman, P. Luikens, B. Raymond, C.J.M. Koenraadt	A. Kolliopoulou, D. Kontogiannatos, Q. Xue, C.N.T. Taning, K. De Schutter, G. Smagghe, F. Ren, M. Feng, J. Sun, L. Swevers	A. Accoti, M. Becker, J. Vulcan, A. Elma Abu, S. G. Widen, M. Sylla, V. Popov, L. B. Dickson	M. Nouzova,F.G. Noriega	R. Rao, S. Monti, E. Langella, A. Amoresano, F. Pennacchio
		Plants with benefits: enhancing direct and indirect plant defenses against insect herbivores by plant-beneficial fungi	Interactions of Liberibacter solanacearum with carrot psyllid Endoplasmic reticulum (ER) and its association with apoptosis	Improved methods for RNAi-mediated pest control (part 2)	Carry-over effects of different larval competition treatments on vector competence in three medically important mosquito species	MicroRNAs from mosquito saliva may contribute to vertebrate host manipulation with potential implications for pathogen transmission	Honeydew: the hidden and sweet driver of interactions in biological control
		S. Van Hee, T. Alınç, S. Colazza, A. Cusumano, H. Jacquemyn, B. Lievens	O. Jassar, M. Ghanim	**Chairs:** Gianluca Tettamanti, Luc Swevers, Vassilis Douris	A. Vanslembrouck, A. Heitmann, S. Jansen, R. Lühken, J. Schmidt-Chanasit, R. Müller	B. Arcà, M.G. Dipaola, G. Bevivino, S. Buezo Montero, L. Bertuccini, F. Lombardo	M. T. Fernández de Bobadilla, A. Tena
		Unraveling direct and indirect control mechanisms of P. ubiquitus against the tomato russet mite and powdery mildew	Assessing the risks of co-infection by a fungal and a bacterial insect pathogen in Tenebrio molitor	Leveraging the role of Dnmt1 in early development for potential use in whitefly pest management	Investigating the presence of three sympatric Phortica spp. in the Latium region (Manziana, Rome, Italy)	A novel olfactory protein of *Anopheles gambiae* involved in the recognition of plant-derived repellents	The new approach to biocontrol
		L. Vervaet, E. Lanoo, D. Vangansbeke, M. Duarte, F. Wäckers, P. De Clercq, T. Van Leeuwen	P. Herren, N. V. Meyling, A. M. Dunn, C. Svendsen, C. Savio, H. Hesketh	E.A. Shelby, E. McKinney, C. Cunningham, A. Simmons, A. J. Moore, P.J. Moore	C. Poggi, I. Bernardini, D. Porretta, J. Máca, E. Perugini, S. Manzi, R.P. Lia, F. Beugnet, J. Fourie, D. Otranto, M. Pombi	E. Christodoulou, E.C.V. Stamati, K.E. Tsitsanou, G. Kontopidis, S.E. Zographos	M. Torne, A. Fenio
		Plant damage caused by the predatory bug Nesidiocoris tenuis (Reuter) (Hemiptera: Miridae) can be reduced by eliciting plant defenses	Both transcriptomic response and gut microbiota composition of Nosema ceranae-infected honeybees differ between laboratory and semi-field conditions	RNA Spray for Plant Protection - Knockdown of p300 reduces lifespan and causes early onset and reduction of offspring in Myzus persicae	The growing threat of Invasive ticks in a changing world	Deciphering the regulation of nitrogen and carbon metabolism in *Aedes aegypti* mosquitoes	Ecological Innovations provide bioprotection alternatives to pesticides
		L. Depalo, C. Gallego, R. Ortells-Fabra, C. Salas, A. Urbaneja, M. Pérez-Hedo	T. Sbaghdi, J.R Garneau, H. El Alaoui, F. Chaucheyras-Durand, P. Bulet, M. Bocquet, N. Blot, F. Delbac	M. Pierry, E. Knorr, K.-Z. Lee, A. Vilcinskas	J. Kashefi*, M.C. Bon, L.A. Nguyen	N. Petchampai, J. Isoe, C.G. Sánchez, P.Y. Scaraffia	F. Wäckers
		Exposure of sweet pepper plants to the volatile Z-3-HP enhances the plant's resilience to herbivore attacks and water deficits	Studying insect egg microbiomes as a first step towards the identification of microbial elicitors to enhance plant defenses against insect eggs	Effective and Sustainable Control of Halyomorpha halys (stink bug) using a Novel Alginate-Encapsulated dsRNA Formulation	Climate change and adaptations: presence and trophism of sandflies on winter in Sicily	Challenging the popular belief, mosquito larvae breath underwater (but pupae do not)	
		C. Riahi, A. Urbaneja, A. Calatayud, M. Pérez-Hedo	M.W J Geerinck, S. Crauwels, S. Colazza, H. Jacquemyn, A. Cusumano, B. Lievens	V. P. S. Amineni, G.Petschenka, A. Koch	M.L. Di Pasquale, F. Vitale, S. Vullo, E. Oliveri, F. Bruno, G. Castelli, S.M. Villari, F. La Russa	A. Alvarez-Costa A., M.S. Leonardi, S. Giraud, P.E. Schilman, C.R. Lazzari	
				Species-specific dsRNAs designed against agricultural pests show no significant cross-species activity against Coccinella septempunctata			
				S. Gosh, M. Pierry, A. Vilcinskas, E. Knorr			
15:30 - 16:00	**Coffee break**						
16:00 - 16:30	**Poster Session III**						
16:30 - 18:30		**Hall 1**	**Hall 2**	**Hall 3**	**Hall 4**	**Hall 5**	**Hall 6**
		Integrated Pest Management	Symbiosis and Insect Pathology	Insect Biotechnology	Biodiversity and Conservation	Physiology and Biochemistry	**Workshop:** "New approaches on the management of invasive Lepidoptera in urban/ suburban areas and forests"□
		Pest bio-ecology, monitoring and control I	**Takes more than two to tango: multiple insect host - symbionts interactions and insights to insect virome**	**Genome editing of insect pests and vectors of disease to understand physiological processes and resistance mechanisms**	**Identification and monitoring tools**	**From Digestion Towards Metabolism & Immunity**	
	Chairs:	Lucia Zappalà	Antonios Avgoustinos	Vassilis Douris, Gianluca Tettamanti	Dennis Michez	Umut Toprak	
		Impact of visual and olfactory cues on Psylliodes chrysocephala (Coleoptera, Chrysomelidae) host plant location and selection in the field	Tba	**Keynote:** Recoding immunity in the malaria mosquito midgut	Outcomes from the European project SPRING: capacity building in pollinator taxonomy	Current knowledge and future perspectives on the immune system of black soldier fly	
		L. Magnin, A. Jullien, I. Hiltpold, A. Baux	Tba	G. K. Christophides	S. Reverté, D. Michez	D. Bruno, A. Montali, S. Caramella, M. Casartelli, G. Tettamanti	

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		Host Plant Preference of Citrus Species and Ornamental Plants to Trioza erytreae, vector of HLB	Silencing of leafhopper vector genes to disrupt phytoplasma transmission	Developing a novel sex ratio distortion system in Anopheles gambiae	Toward a unified view of insect distribution	Black soldier fly larvae can efficiently grow on the organic fraction of municipal solid waste thanks to the physiological plasticity of the midgut	
		R. Perez-Otero[1], R. Perez-Turco[1], L. Peña[2], A. Fereres	L. Galetto, M. Rossi, S. Abbà, C. Parise, D. Bosco, C. Marzachì	Y. Arien, D.A. haber, Y. Alcalay, P.A. Papathanos	M. Orr, A. Hughes	D. Bruno, M. Bonelli, M.G. Pellegrino, M.C. Valoroso, D. Roma, S. Caccia, G. Tettamanti, M. Casartelli	
		Pheromone-based control of the strawberry tortrix, Acleris comariana, a major pest in Danish and Swedish strawberry production	Food envy: Interactions between entomopathogenic nematodes, their mutualists and insecticidal pseudomonads	Exploring YG5 for malaria control: Developing Y-linked Sex Ratio Distorter in Anopheles gambiae	Towards the development of Luxembourg's first on-line repository of local wild bee content	Investigating the role of amylases from *Hermetia illucens* larvae and their substrate in starch digestion	
		G. P. Svensson, V. Tönnberg, F. Andersson, E. Hedenström, L. Sigsgaard	M. Zwyssig, A. Spescha, D. Schoenholzer, A. Belosevic, T. Patt, J. Schneider, R. Machado, A. Regaiolo, C. Keel, M. Maurhofer	E.Y Yonah, F. Krsticevic, P.A. Papathanos	F. Herrera-Mesías, A. Cruz, D. Thissen, A. Weigand	J.B. Guillaume, S. Mezdour, F. Marion-Poll, C. Terrol, C. Brouzes, P. Schmidely	
		Exploring yeast-based formulations for environmentally friendly management of Drosophila suzukii: efficacy, chemical characterization and potential for attract-and-kill approach	Legume Flowers as Bridge for Interspecific Virus Transmission among Sympatric Honey bees (Apis mellifera) and Long-Horned Bees (Eucera spp.)	An efficient method for CRISPR/Cas9 mediated gene editing in difficult to transform arthropods	Could we identify bumblebees from their buzzes? A proof of concept combining acoustic tools and artificial intelligence	Characterization of a phospholipase A(1)-like protein and its potential role in the lipid metabolism of *Leptinotarsa decemlineata* (Coleoptera: Chrysomelidae)	
		M. Bjeljac, C. Duménil, U. Spitaler, S. Schmidt, S. Angeli	A. Eliyahu, A. Dombrovski, A. Sadeh, Y. Mandelik	S. De Rouck, A. Mocchetti[1], W. Dermauw[1], T. Van Leeuwen	J.S.P. Froidevaux, N. Farrugia, A. Chiti, Y. Bas, K.J. Park	I. Osan, S. Ghanbari, C. Doğan, U. Toprak	
		Host plant volatile lures attract the poplar bark beetle Trypophloeus (Coleoptera: Scolytidae)	Filamentous viruses constitute a novel family among Naldaviricetes preferentially associated with parasitoid wasps	Decifering the role of ROS/CncC signaling pathway in the adaptation of Spodoptera frugiperda to plant allelochemicals and insecticides using Sf9 cells	Environmental variables and wild bee species traits as drivers of change in pollination spectrum in agricultural landscapes: a pollen DNA approach	Environmental rearing condition influence essential fatty acid use in the migratory moth, *Mythimna unipuncta*	
		A. Bruno, D. Mínguez-Bermejo, A. Rentero, P.A. Casquero, A. Rodríguez-González, M.F. Álvarez-Taboada, J. Garnica, A. Ortiz	M. Leobold, B. Guinet, J-M. Drezen, E. A. Herniou, J. Varaldi, A. Bézier	D. Amezian, T. Fricaux, G. de Sousa, F. Maiwald, H-I. Huditz, R. Nauen, G. Le Goff	M. Querejeta, L. Marchal, P. Pfeiffer, M. Roncoroni, V. Bretagnolle, S. Gaba, S. Boyer	L. Anparasan, K. A. Hobson, J. N. McNeil	
		"Catch me if you can" – improving monitoring and control of vine weevil (Coleoptera: Curculionidae) in soft fruit and ornamental crops	Symbiotic endobacteria modulate virus effects on plant-aphid interactions	Development of a next-generation CRISPR-mediated population control strategy for Tephritid pests as a replacement for traditional sterile insect technique	A DNA barcoding library for exploring the evolution and diversity of European ants	New Target Sites in the Control of *Myzus persicae* (Hemiptera: Aphididae) by RNAi: Facilitated Glucose Transporter Member 1-Like (FTG1) and Protein Transport Protein (Sec23A)	
		E. Fezza, J.M. Roberts, T.J.A. Bruce, L.E. Walsh, M.T. Gaffney, T.W. Pope	P. Sanches, C. De Moraes, M. Mescher	S. Davydova, J. Liu, N. Kandul, O. Akbari, A. Meccariello	M. Menchetti, B. Blaimer, L. Borowiec, F. García, K. Gómez, J.M. Gómez Durán, P.D.N. Hebert P.D.N., A. Lapeva-Gjonova, A. Tinaut, F. Ruano, S. Salata, E. Sbrega, M. Serracanta, S. Schär, E. Schifani, T. Suchan, L. Dapporto, R. Vila	B. Yılmaz, S. Ghanbari, G. Söylemezoğlu, S. Whyard, U. Toprak	
		A novel insect food-based attractant: the case of olive fruit fly Bactrocera oleae	Assessment of nematode and microbiome diversity present in the most destructive forest pest in Europe	Investigating Chemosensory Protein Ligands as Novel Synergists for Insecticides	Capture efficiency of pitfall traps based on sampling strategy and the movement of arthropods	Role of muscarinic receptor in regulation of metabolic activity of insect fat body	
		I. Koufakis, A. Kalaitzaki	J. Morales-García, K. Nadachowska-Brzyska, P. Łukasik	V. Douris, P. Koukoudis, I. Varnava, A. Fish, P. Celie	D. A. Ahmed, A. Beidas, S. V. Petrovskii, J. D. Bailey, M. B. Bonsall, A. S. C. Hood, J. A. Byers, E. J. Hudgins, J. C. Russell, J. Růžičková, T. W. Bodey, D. Renault, E. Bonnaud, P. J. Haubrock, I. Soto, P. Haase	S. Chowański, K. Walkowiak-Nowicka, A. Urbański, P. Marciniak	
		Implementing the 'female removal' technique for apple orchard protection: recent results in the Trentino-Alto Adige region			Biodiversity discovery with the DiversityScanner and the Entomoscope		
		V. Carnio, M. Preti, S. Angeli			C. Pylatiuk, L. Wührl, L. Rettenberger, N. Klug, E. Hartop, J. Graf, R. Meier		
18:30 - 19:00	**Poster Session III**						
20:00 - 22:00	**Congress Dinner**						

Thursday 19 October 2023

	Hall 1 - Plenary						
09:00 - 10:00	**Plenary lecture**						
	Prof. George Dimopoulos						
	Professor, PhD MBA, Dept. Molecular Microbiology and Immunology, Johns Hopkins Malaria Research Institute, Bloomberg School of Public Health, Johns Hopkins University, Baltimore, Maryland, USA, Director (JHMRI Parasite Core), Deputy Director (JHMRI0, ERA Chair, Institute of Molecular Biology and Biotechnology (IMBB), FORTH – Hellas						
10:00 - 10:30	**Coffee break**						
10:30 - 12:30		**Hall 1**	**Hall 2**	**Hall 3**	**Hall 4**	**Hall 5**	**Hall 6**
		Integrated Pest Management	Medical and Veterinary Entomology	Stored Product Protection	Biodiversity and Conservation	Social Insects and Apidology	Social Insects and Apidology
		Subsession: Pest bio-ecology, monitoring and control II	**Next generation vector surveillance: Emerging technologies and the role of society**	**Urban Entomology and Stored Product Protection: Integrated Protection of Stored Product Pests**	**Sub session II: Biodiversity in agro-ecosystems**	**Bee threats in a changing environment I**	**Sociality in Insects**
	Chairs:	Dionyssios Perdikis	Alexandra Chaskopoulou, Mary Cameron	Campbell J. F., Kavallieratos N.	F. Karamaouna, M. Stavrinides	Fani Hatjina, Peter Neumann	Maria Bouga, Deborah Smith

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		Integrated pest management and field efficacy of insecticides on potato tuber moth Phthorimeaopercutella(Lepidoptera:Gelechidae)	**Keynote:** The difference between able to act and willing to act: The case for keeping the public in public health decisions.	**Keynote:** Lessons from the study of stored-product insect interactions with pheromones and their application to monitoring and management programs for the food industry	**Keynote:** Biodiversity drivers of arthropod pest regulation services in tropical agroecosystems of La Réunion island, a first systemic insight	**Keynote:** Unveiling the Use of Precision Apiculture Systems Usage by European beekeepers	**Keynote:** The hidden diversity of Asian honey bees
		P. Ioannidis	L. Cohnstaedt	J. Campbell	T. Nève de Mévergnies, J. Huat, J. Haran, T. Delauney, M-S. Tixier, A. Chailleux	P. Vardakas , G.Mainardi, E. Minaud, S. Patalano, F. Rebaudo, F. Requier, I. Steffan-Dewenter, F.Hatjina	D. R. Smith, Y-C. Su
		First steps of developing a novel push-pull-kill strategy: Primary and secondary plant metabolites involved in the attraction and feeding behavior of BMSB	Mass spectrometry toolbox: lessons learnt from a decade of applications on phlebotomine sand flies	The microbial ecology of stored products insect pests in Greece	Conservation of farmland biodiversity in Mediterranean agroecosystems	Climatic conditions, geographic features, land cover, genetic background, and profile of beekeeping operations contribute to honey bee winter losses	Substances in the mandibular glands mediate queen effects on larval development and colony organization in an annual social bumble bee
		B. Czarnobai de Jorge, A. Eben, A. Koßmann, A. V. Patel, L. C. Muskat, T. Stümpfler, E. Beizen-Heineke, B. Wetterauer, J. Gross	V. Dvorak, P. Halada	H. Quellhorst, M. Sakka, G. Tsintzou, P. Madesis, I. Vagelas, J. M. Maille, M. A. Ponce, E. Scully, C. Athanassiou, K. Y. Zhu, W. Morrison	A. Mandoulaki, A. Varnava, E. Tzirkalli, S. Zotos, V. Litskas, I. Vogiatzakis, M. Stavrinides	M. Kükrer, C. C. Bilgin	M. Franco, R. Fassler, H. Chole, Y. Herz, S. H. Woodard, D. Reichmann, G. Bloch
		Study of the winter ecology of *Palomena prasina* (L.) (Hemiptera: Pentatomidae) in a perspective of Integrated Pest Management	A new FTA card-based trapping system for mosquito-borne diseases surveillance	Dispersal ability and prey preference of the predatory mites *Blattisocius* sp. and *Cheyletus* sp. in stored rice	Cover crops enhance ecosystem services and increase biodiversity in pear orchards	Nutrition of the honey bee parasite Varroa destructor, from behavioural observations to molecular considerations	The colony environment and brood care interact to influence circadian brain gene expression in Apis mellifera and Bombus terrestris
		L. Driss, R. Hamidi, C. Andalo & A. Magro	S. Manzi, L. Nelli, E. Perugini, C. Poggi, M. Di Luca, L. Toma, F. Severini, F. Toniolo, A. Michelutti, M. Bertola, F. Gradoni, S. Sgubin, O. Zaccaria, V. Abbate, C. Fortuna, F. Lista, M. Pazienza, F. Montarsi, M. Pombi	J. Parsons, C. Castañé, J. Riudavets	J.A. Sanchez, L. Perera-Fernández, E. López-Gallego, M. Pérez-Marcos, L. de Pedro, D. Cabanillas, M. La Spina, C. Sánchez-Marín	V. Piou, C. Vilarem, S. Blanchard, C. Armengaud, P. Heeb, M. Bocquet, K. Arafah, P. Bulet, A. Vétillard	T. Goldberg, R. Oliver, M. Nagari, J. Holland, M. Cohen, G. Bloch
		Exploring refuge sizes to delay resistance by western corn rootworm to Bt maize	Defining wing-beat patterns of mosquitoes for automated detection	Monitoring stored-product insect pests to build better predictive models for migration and seasonal variation	Floral resources for beneficial arthropods in apple orchards	The effect of Juvenile hormone on viral infection severity in bumble bees	Ontogeny of superorganisms: Social control of queen specialization in ants
		J. McCulloch, A. Gassmann	F.Sarathchandra	TBA	L. Sigsgaard, L, Helle Mathiasen, Karen Rysbjerg Jensen, S. K. Jacobsen	A.Tzdaka, H.Y. Shpigler	R. Libbrecht
		Inheritance and Fitness Costs of Field-Evolved Resistance to Gpp34/Tpp35Ab1 Maize by Western Corn Rootworm (Coleoptera: Chrysomelidae)	Is Aedes albopictus truly exophagic in Italy? Citizen science data can provide the answer	TBA	Wild vegetation and marketable habitat enhancement plants support pollinator diversity in Moroccan farmlands	Effects of lactic acid on Varroa destructor grip skill: fitness cost under artificial conditions	Royal protein pheromones in a termite? Protein profiling and behavioral bioassays
		E. M. Smith, B. S. Coates, A. J. Gassmann	B. Caputo, E. Longo, C. Virgillito, C.M. De Marco, P. Serini, M. Micocci, V. Lencioni, F. Montarsi, F. Severini, JRB. Palmer, F. Bartumeus,A. della Torre	S. Savoldelli, C. Jucker, D. Lupi, S. Malabusini, E. Peri, S. Guarino	A. Sentil, S. Reverté, P. Lhomme, Y. Bencharki, P. Rasmont, S. Christmann, M. Michez	C. Vilarem, V. Piou, S.Blanchard, C. Armengaud, F. Vogelweith, A. Vétillard	F.Ruhland , G.Gabant, T. Toussaint, M. Nemcic, M. Cadène, C. Lucas
		CRISPR-Cas12a-based biosensing of pests	Pilot test of a novel, multiplex point-of-need tool to detect pathogen DNA/RNA in vectors for integrated vector borne disease surveillance	Lessons learned for phosphine distribution in "real world" fumigations	Use of hedgerows with aromatic plants as conservation practice for natural enemies of pests in orange orchards	Evaluation of the efficacy of essential oils against Varroa destructor on Apis mellifera macedonica	Ecological drivers of sociality in Xyleborinus saxesenii, a widely distributed ambrosia beetle
		D.M. Alon, K. Mittelman, T. Partosh, D. Burstein, G. Pines	S. Campino, P. Ghosh, M. Higgins, D. Ghosh, M. Kristan, A. Chowdhury, M. Mark-Carew, R. Chowdhury, M. Shafiul Alam, S. Kha Sagar, D. Mondal, M. Cameron	P. Agrafioti, V. Sotiroudas, E. Kaloudis, D. Kateris, D. Bochtis, C.G. Athanassiou	T. Stathakis, L. Economou, M. Barda, T. Angelioudakis, E. Kapaxidi, V. Kati, F. Karamaouna	D. Di Criscio, S. Ganassi, C. Tedino, P. Grazioso, F.Hatjina, A. De Cristofaro	A. Melet, P. Biedermann
		The oak pinhole borer, Platypus cylindrus F. (Coleoptera; Curculionidae): population dynamics and association with Diplodia corticola in productive stands of cork oak	A change in IRS insecticide and mode of application in the Visceral Leishmaniasis elimination programme in India - the impact on sand fly abundance and disease incidence	Feasibility of grain aeration for safe storage and insect infestation prevention in moderate climates and the alternative use of artificially cooled air using a grain chiller	Birds consume brown marmorated stink bugs, *Halyomorpha halys* (Hemiptera: Pentatomidae) in orchard agroecosystems	Challenges facing beekeeping in Europe through the lens of stakeholders and beekeepers	The effects of juvenile hormone on long and short-term memory in a social bumble bee (Bombus terrestris)
		A. Meijer, C. Colinas, E.J. Muñoz-Adalia	M.Coleman, L.E. Coffeng	A.-M. Nunez Vega	E. Grabarczyk, T. Cottrell, J.M.Schmidt, M. Querejeta, P. Tillman	W. Verbeke, J.H. Williams, F. Alves, D.C. de Graaf	Y. M.-Butbul Shalem, G. Bloch
		Facultative endosymbionts; new biological control agents of grain crop aphids and their horizontal transmission				Assessment of post-fire vegetation recovery after forest wildfires: how honey bees and other pollinators are affected. The case of Voria Evia	
		S. Soleimannejad, P. Ross, A. Hoffmann				E. Kapsi, P. Trigas, T. Antonopoulos, A. E. Tsagkarakis	
12:30-13:30	**Lunch break**						
13:30-15:30		**Hall 1**	**Hall 2**	**Hall 3**	**Hall 4**	**Hall 5**	
		Integrated Pest Management	Medical and Veterinary Entomology	Stored Product Protection	Biodiversity and Conservation	Social Insects and Apidology	
		Pest bio-ecology, monitoring and control III	**Innovative vector control strategies: Adapting to the future**	**Urban Entomology and Stored Product Protection: Artifact Pests and Wood Borers in the Urban Environment**	**Ecology, climate and diversity**	**Bee threas in a changing environment II**	
	Chairs:	Alberto Urbaneja	Antonios Michaelakis, Alessandra della Torre	Chair Plarre R., Athanassiou C. G.	A. Hochkirch,	Maria Bouga, Jordi Bosch	
		IPM strategies for managing leatherjackets in pasture	**Keynote:** The Sterile Insect Technique and its derivatives against Aedes invasive species in Europe	**Keynote**: It´s just a point of view – destructions and creations of cultural objects by artifact pests	**Keynote:** LIFE SOS Crau Grasshopper: habitat management, breeding programme and translocation strategy	**Keynote:** Solitary bees (Osmia spp.) as model organisms in ecotoxicology studies	
		A. Murchie, F. Spaans, S. Jess, J. Hay	J. Bouyer	R. Plarre	L. Zechner, C. Gibault, A. Hochkirch	J. Bosch	

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	Prof A. Tena	Field assessment of an IPM scheme for Bemisia tabaci based on laboratory scientific evidence	Sugarcane molasses as an alternative adult diet for laboratory rearing of Aedes albopictus	Modified atmospheres using CO2 to control *Lyctus* spp. in dwellings	Phylogeography and conservation of *Melitaea diamina (*Lepidoptera, Nymphalidae): southern relict populations trapped by climate change	Pesticide loads in food provisions of the solitary bee Osmia cornuta: effects of landscape composition and management practices
		M. Stavrakaki, K. Alipranti, M. Patsaki, C. Anagnostopoulos, E. Karakosta, A. Paspati, G. Tsaniklidis, A. Tsagkarakou, J. Vontas, E. Roditakis	E. C. Savvidou, L. Blanco Sierra, C. S. Ioannou, F. Bartumeus, N. T. Papadopoulos	H. Navarro, S. Navarro, N. Inbari	L. Spilani, C. Montiel-Pantoja, M. Sanjurjo-Franch, I. Martínez-Pérez, S. Montagud, V. Marques, L. Dapporto, V. Dincă, R. Vila	G. Sancho, S. Albacete, C. Azpiazu, F. Sgolastra A. Rodrigo, J. Bosch
		Integrated Pest Management strategies for cabbage stem flea beetle in the UK	The integrated management of the Asian tiger mosquito in Region of Attica (Greece)	Developing a molecular test for the detection of insect infestations in stored paddy rice	Forest edge effects on termites in a neotropical rainforest	Multiple exposures to a neonicotinoid pesticide reduces longevity of bumblebee queens.
		P. Ortega-Ramos, R. Girling, A. Mauchline, L. Collins, S. Cook	A. Michaelakis, N. Papadopoulos, G. Tsiamis, A. Augoustinos, G. Balatsos, M. Bisia, E. Zavitsanou, V. Karras, C. Athanassiou, D. Papachristos,P. Milonas, I. Moutsinas, M. Lekkos, A. Dimitriadis, M. Lekkou	N. Agustí, L. del Arco, C. Castañé, J. Riudavets	E. Duquesne, Y. Roisin	A. O'Reilly, L.J. Thompson, J. Stout, D. Stanley
		Developing IPM techniques for the spherical mealybug, Nipaecoccus viridis for citrus orchards in a region of endemic Huanglongbing	Long non-coding RNAs regulate Aedes aegypti vector competence for Zika virus and reproduction	Bio-insecticide effectiveness of plant extracts powder against insects of stored products	Historical changes in bee species richness in two areas with contrasting land use patterns in Cyprus	Short-term exposure to elevated temperatures affects learning and memory in bumblebees
		L. Diepenbrock[1], D. Olabiyi	A. Belavilas-Trovas, S. Tastsoglou, S. Dong, M. Kefi, M. Tavadia, K. D. Mathiopoulos, G. Dimopoulos	D. Darazy, O. Mortada, E. Tabet	A. I. Varnava, D. Michez, N. J. Vereecken, S. P.M. Roberts, M. C. Stavrinides	M. Gérard, A. Amiri, B. Cariou, E. Baird
		Integrated Management of Dysmicoccus grassii Leonardi (Hemiptera: Pseudococcidae) based on Acerophagus artelles releases in commercial banana crops in the Canary Islands	Mosquito odour-baited mass trapping reduces malaria transmission intensity	How does pirimiphos-methyl affect the progeny of *Tribolium castaneum* (Herbst)?	Protecting Farmland Pollinators: Whole Farm Scorecard	Virus distributions in wild bees (Andrena spp.) and managed honey bees are associated with floral communities at local and landscape scales
		M.A. Dionisio, F.J. Calvo	Y. Debebe, H. Tekie, S. Dugassa, R.J. Hopkins, S.R. Hill, R. Ignell	A. Skourti, N.G. Kavallieratos, Nikos E. Papanikolaou	S. Kavanagh, Ú. Fitzpatrick	I. Kahnonitch, K.F. Daughenbaugh, T. Erez, N. Arkin, A. Dorchin, C.C. Carey, A.J. McMenamin, T. Wiegand, B. Ross, B. Wiedenheft, N. Chejanovsky, M.L. Flenniken, A. Sadeh, Y. Mandelik
		Advancing current IPM schemes based on scientific evidence and farmer engagement: the ZeroTuta project	Genome sequence and metagenomic analyses of *Aedes koreicus* and *Aedes japonicus*: implications in vector control.	Deltamethrin applied on concrete against *Alphitobius diaperinus*: six-week residual trials	Conserving insects on Mediterranean islands	Diversity or redundancy in stingless bee resin sources in tropical forests: Resin chemistry and their spatial distribution in lowland moist dipterocarp forests
		E. Roditakis, M. Stavrakaki, K. Aliprtanti, K. Mylona	P. Catapano, C. Damiani, A. Cappelli, D. Koukouli, M. Falcinelli, I. Ricci, V. Napolioni, G. Favia	N.G. Kavallieratos, E.P. Nika, A. Skourti, A.J.V. Virvidaki	M. C. Stavrinides, A. Varnava, E. Tzirkalli, A. Mandoulaki, I. Vogiatzakis	S. X. Chui, S. J. Davies, A. S. Kamariah, S. Tan[2], T.L. Yao, R. B. H. A. Wahab, N. A. Abdullah, A. M. Nur-Zati, S. D. Leonhardt
		The role of the landscape in supporting hoverfly populations and natural pest control of aphids	A robotic system for sex separation of the tiger mosquito, *Aedes albopictus,* based on machine vision at the pupal stage	Extracts of Acmella oleracea are effective green pesticides for the management of key stored-product arthropods	Conservation of insect diversity needs long term commitment of various land use stakeholders – four-year results of the EU LIFE-Project "Insect Responsible Sourcing Regions"	The Effect of Neonicotinoids on the Positive Transfer of Learning in the Visual Domain of Honeybees
		L. Mansier, P. van Rijn	A. Kokkinis, V. Karathanasi, A. Augustinos, P. Koustoumpardis	N.G. Kavallieratos, E. Spinozzi, C.S. Filintas, E.P. Nika, A. Skourti, A.M.E. Panariti, M. Ferrati, R. Petrelli, M. Ricciutelli, S. Angeloni, E. Drenaggi, A. Sensini, F. Maggi, A. Canale, G. Benelli	P. Pyttel	C. Zoo
		The impact of reduced tillage and distance to field margin on predator functional diversity				
		S. K. Jacobsen, L. Sigsgaard, A. B. Johansen, K. Thorup-Kristensen, P. M. Jensen				
15:30-16:00	**Coffee break**					
16:00-16:30	**Poster Session IV**					
16:30-18:30		**Hall 1**	**Hall 2**	**Hall 3**	**Hall 4**	**Hall 5**
		Integrated Pest Management	Medical and Veterinary Entomology	Stored Product Protection	Biodiversity and Conservation	Social Insects and Apidology
		Pest bio-ecology, monitoring and control	**Changing patterns on VBDs transmission risk**	**Urban entomology and insects for food, feed and waste management**	**Conservation and restoration**	**Bee threats in a changing environment III**
	Chairs:	Lucia Zappalà	Elina Patsoula, Marieta Braks	Laura Gasco, C.I. Rumbos	tba	Fani Hatjina, Dirk de Graaf
		Region wide assessment of the distribution of Cacopsylla pruni — main vector of European stone fruit yellows — and an agroecological approach for its management	**Keynote:** There is nothing simple about vector control	**Keynote:** Insects for feed: sustainability and circular economy in practice	**Keynote:** Drivers and Repercussions of UK Insect Declines (DRUID): Artificial Neural Networks predict species distributions for a wide range of insect taxa	**Keynote:** Paving the way for marker-assisted selection in beekeeping
	Prof Nicolai Meyling	L. Sutter, Emile Steenman, C. Debonneville, C. Gilli, D. Christen	M. Braks	L. Gasco, C.I. Rumbos, C.G. Athanassiou	Y. Bourhis, C.R. Shortall, B. Kunin, A. Milne, J.R. Bell	D.C. de Graaf, R. Lefebre, L. De Smet, B. Broeckx, L. Peelman
		Probing on tillage-alternatives Juvenile Aphrophoridae vectors of Xylella fastidiosa (JAveX) control	tba	Wet feed effect on mealworms' growth and performance: an important but rather underrated factor	Diversity of insects associated to systemic integration of millet and shrubs (Faidherbia albida and Guiera senegalensis) in Niakhar area Senegal	Exposure to realistic levels of pesticide mixtures affect nesting performance, longevity and reproductive success in a solitary bee

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		D. Valenzano, F. Garganese, U. Picciotti	tba	C.I. Rumbos, G.V. Baliota, C. Adamaki-Sotiraki, K. Kotsou, M. Rigopoulou, P. Soulioti, C.G. Athanassiou	D. Sall SY, A Ahamada, H. Maiguizo, M. Diédhiou, A.B. Ndiaye, P. Martin	S. Albacete, G. Sancho, C. Azpiazu, F. Sgolastra, A. Rodrigo, J. Bosch
		Convergence in Red Palm Weevil and Xylella-vector invasion events and consequent IPM options	Influence of climate chance and infection on thermal preferences of mosquitoes	Evaluation of isoproteinic diets composed of agricultural by-products as feed for Tenebrio molitor larvae	EU LIFE Programme funding direct action to protect Europe's threatened insects.	Evaluation of environmental stressors on the learning behaviour of honey bees
		U. Picciotti, A. Liccardo, A. Fierro, F. Porcelli, F. Garganese	D. Hug, A. Kropf, R. Ziegler, A. Hochstrasser, A. Mathis, W. U. Blanckenhorn, N. O. Verhulst	M. Vrontaki, C. Adamaki-Sotiraki, C.I. Rumbos, A. Anastasiadis, C.G. Athanassiou	G. Becerra-Jurado, K. Lunan	E. Chierici, F. Napoli, G. Rondoni, E. Conti
		Evaluation of Mentha pulegium, Ocimum basilicum and Origanum majorana essential oils encapsulated in nanosystems against Tetranychus urticae, Aphis gossypii and Tuta absoluta	Mayaro virus, an emerging New World alphavirus knocking at our door	Exposing edible insects to livestock viruses, a step towards sustainability	Movement ecology of Hermit beetles (*Osmoderma eremita*) in Eastern Romanian Carpathians	Assessing bee exposure to pesticide residues in pollen from crop flowers, and bee collected pollen
		D. Perdikis, S. Dervisoglou, C. Traka, A. Roussos, C. Misailidou, M. Polissiou, D. Daferera, E. Kakouri, E. Kaparakou, Panagiota-Kyriaki Revelou, E. Kavetsou, I. Pitterou, A. Kalospyros, A. Detsi	M. Brustolin, K. Bartholomeeusen, R. Müller, K. Ariën	A. Lecocq, A.S. Olesen, G. J. Belsham, A. Bøtner, C. M. Lazov, L. Lohse, S. M. Rajiuddin, T. B. Rasmussen, A. B. Jensen	M. D. Mirea, S. Chiriac, S. Manolache, I. V. Miu, L. Pîndaru, V. D. Popescu, L. Rozylowicz	E. Zioga, B. White, J. Stout
		Plant essential oils: a multifaceted tool for crop protection	Investigation of the presence of Dirofilaria spp infection in Culex pipiens mosquitoes and dogs in the Attica Region	Valorization of agricultural side-streams for the rearing of larvae of the lesser mealworm, Alphitobius diaperinus (Panzer) (Coleoptera: Tenebrionidae): Effect on larval growth and body composition	LIFE BEETLES (LIFE 18 NAT/PT/000864) – The first insect conservation project in the Azores archipelago	Differences in sensitivity between Africanized Apis mellifera and Melipona scutellaris after exposure to fungicide pyraclostrobin
		M. Ricupero, O. Campolo, A. Biondi, G. Siscaro, V. Palmeri, A. Urbaneja, M. Pérez-Hedo, L. Zappalà	M. Bisia, A. Ligdas, P. Ligda, G. Balatsos, V. Karras, E. Zavitsanou, E. Patsoula, S. Sotiraki, A. Michaelakis	M. Rigopoulou, G.V. Baliota, C.I. Rumbos, C.G. Athanassiou	M.T. Ferreira, S. Manso, T. Figueiredo	C. Domingues,, L. Inoue, A. Gregorc, E. Silva, O. Malaspina
		The long and challenging road to capitalize on plant-based extracts from the lab to the field	Entomological surveillance and detection of West Nile Virus in Culex pipiens mosquitoes in the Region of Attica, Greece, 2021-2023	Inbreeding depression impacts mating and reproductive performances in *Hermetia illucens*	Drivers and Repercussions of UK Insect Declines (DRUID): Updating a 30-year dataset to a 48-year dataset alters trend direction.	Multi-omics approach to assess honeybee adaptation in threatening habitats
		P. Silvie, M. Fazolin, L. do Prado Ribeiro, P. A. Marchand, F. Tchuwa, P. Martin, A. Mkindi	G. Balatsos, S. Beleri, M. Bisia, V. Karras, E. Zavitsanou, N. Tegos, E. Patsoula, D. Papachristos, A. Michaelakis	G. Giunti, F. Laudani, V. Palmeri, O. Campolo	C.R. Shortall, M. Hampson, J.R. Bell	E. Giaonnopoulou, I. Tamvakis, P. Vardakas, S. Patalano
		Effect of conventional acaricides and mineral oils on Anagyrus vladimiri, a potential biological control agent of citrus mealybug	Are entomological surveillance data reliable endpoints for risk assessment of Aedes albopictus abundance and risk of arbovirus transmission?	Effects of insecticide residues in organic residual streams on insects reared for food and feed	CZ-SK SOUTH LIFE: Optimalization of Natura 2000 sites management delivery in the South Bohemia Region and the territory of South Slovakia (LIFE16 NAT/CZ/000001)	Monitoring the effects of plant protection on pollinating insects in apple orchard – case study from SE Poland
		Larval cannibalism in Spodoptera frugiperda rearings and experimental designs – which factors are amplifying the problem?	M. Manica, M. Carrieri, A. della Torre, D. Petric and AEDES-COST AIM-APSE Team	N. Meijer, H.J. van der Fels-Klerx, J.J.A. van Loon	E. Ježková	
		C.U. Baden,C. Krahl-Perez, J. E. Reed				
18:30-19:00	**Poster Session IV**					
18:30-20:15				**Workshop:** Insects on the plate - Edible insects for food and feed		
	Friday 20 October 2023					
	Hall 1 - Plenary					
09:00 - 10:00	**Plenary lecture - The Aegean bees: granted by nature, treated by humans, threatened by climate change**					
	Prof. Dr. Theodora Petanidou					
	Professor, University of the Aegean					
10:00 - 10:30	**Coffee break**					
10:30 - 12:30		**Hall 1**	**Hall 2**	**Hall 3**	**Hall 4**	**Hall 5**
		Integrated Pest Management	Medical and Veterinary Entomology	Stored Product Protection	Biodiversity and Conservation	Social Insects and Apidology
		Novel technological tools in IPM	**One Health**	**Urban Entomology and Stored Product Protection: Integrated Protection of Stored Product Pests- Post harvest insect biology and control**	**Threats and awareness**	**Wild bees ecology, biogeography and pollination**
	Chairs:	Dionyssios Perdikis	Elina Patsoula, Smaro Sotiraki	Morrison W. R., Scheff D.	TBA	Theodora Petanidou, Denis Michez
		Keynote: The Animal Landscape and Man Simulation System (ALMaSS), a simulation framework for developing IPM	**Keynote :**Two invasions at once: Preliminary results from the delimitation and control strategy of Aedes aegypti and Ae. albopictus populations in Cyprus.	New insights in khapra beetle research: results from a five-year transnational research in USA and Europe	**Keynote:** Citizen science campaign - A new approach to knowledge about the forgotten beetle	**Keynote:** Biogeography and Ecology of European bees
		C.J. Topping	M.I. Vasquez, G. Notarides, C. Pavlou, S. Meletiou, K. Pavlou, S. Elia, H. Herodotou, E. Constantinou, J. Bouyer	W. R. Morrison, M. J. Domingue, P. Agrafioti, E. Lampiri, G. V. Baliota, M. Gourgouta , M. K. Sakka, D. Scheff, R. Grosdidier, S. Myers, C. G. Athanassiou	D. Lemic, H. Virić Gašparić, I. Pajač Živković, R. De Cock, K. M. Mikac	D. Michez
		The application of Smart Technologies in agriculture for insect pest monitoring and control	Characterizing the effect of coinfection ratios on bluetongue virus reassortment in Culicoides	Biological control of some arthropod pests present in stored rice using the generalist predatory mites *Blattisocius* sp.	Climate Change Impact on Damselfly-parasite Interactions	The use of RFID technology in the study of solitary bees - on the case of Osmia bicornis

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		A. Sciarretta, D. Perdikis, T. Tsiligiridis	M. Carpenter, J. Kopanke, C. Rodgers, J. Lee, B. Graham, K. Reed, M. Stenglein, C. Mayo	L. del Arco, J. Riudavets, N. Agustí, C. Castañé	Md K. Khan, S. Paul, M. Herberstein, J. Rolff	A. Splitt, M. Borański, J. Jachuła
		Do drones affect the behaviour of Halyomorpha halys? Implications for pest monitoring in pear orchards	Vertical Transmission Rates of Dengue, Chikungunya, and Zika Virus in Aedes albopictus and Aedes aegypti Mosquitoes	Comparison of Two Formulations of Insecticide-Treated Netting – Efficacy and Sub-lethal Effects	Small-scale richness of pollinator species in a threatening world. Lessons from LIFE PollinAction	Phylogeny and the evolution of Nomada cuckoo bees
		D. Giannetti, N. Patelli, F. B. Sorbelli, L. Palazzetti, M. Cristina Pinotti, L. Maistrello	J. Hartke, S. Baral, P. Sprenger, P. Phuyal, D. Klingelhöfer, D. Groneberg, M. Brustolin, R. Müller, I.M. Kramer	D. Scheff, F. Arthur, J. Campbell, A. Gerken, W. Morrison, K. Zhu	E. Fantinato, S. Favarin, G. Buffa	J. Straka, D. Benda, T. J. Wood, S. Bossert
		Early detection of wireworm (Coleoptera: Elateridae) infestation and drought stress in maize using hyperspectral imaging	Phlebotomus perfiliewi (Parrot, 1930) as a permissive Italian species: putative role of a wild population in the transmission of an Asian strain of Leishmania tropica	Effects of parasitation risk on vigilance and fitness of the moth larvae *Ephestia cautella* (Walker)	Promoting pollinator protection among farmers in the LIFE4pollinator project	**Keynote:** Bee and non-bee pollinator importance for food security
		E. Praprotnik, A. Vončina, P. Žigon, M. Knapič, N. Susič, S. Širca, D. Vodnik, D. Lenarčič, J. Lapajne, U. Žibrat, J. Razinger	I. Bernardini, R. Bianchi, C. Mangiapelo, E. Fiorentino, A. Scalone, S. Orsini, T. Di Muccio, G. Bongiorno	A. Rath, A. Menachem, M. Benita, D. Gottlieb	L. Bortolotti, M. Giovanetti, G. Bogo, M. D'Agostino, M. Quaranta, E. Zenga, R. Costantino, F. Sgolastra, A. Gallicchio, V. Mirra, G. Zama, F. Bitonto, G. Dante, M. Galloni	F. Requier
		Search for peptides acting on Ceratitis capitata larvae	Effect of mating and blood meals on the demographic traits of Aedes albopictus adults	Insect infestations of insect meals under storage: a real-case scenario?	Terrestrial islands: how habitat fragmentation shapes wild bee diversity and threatens the conservation of our most important pollinators	Spatio-temporal dynamics of wild pollinator diversity and activity in Avocado orchards
		F. Simoes, F. Felizes, M. Santos, A. Lopes, M. Lageiro, C. Borges, D. Mendonça, A. Lopes	G. D. Mastronikolos, N. T. Papadopoulos	C.G. Athanassiou, M. Rigopoulou, C.I. Rumbos	J. Visser, J. Straka, N. Vereecken	Y. Halevi, L. Morgulis, Y. Mandelik
		Identification of the predators of oilseed rape pests using camera traps	In vitro evaluation of the antibacterial and anticancer activity of the peptide fraction extracted from the hemolymph of Hermetia illucens	Evaluation of cold and heat treatment on different life stages of *Oryzaephilus surinamensis* (Coleoptera: Silvanidae)	Supporting biodiversity restoration in an urban environment: Uniting insects and citizens	Ecology and management of pollination services in Korla fragrant pear in China
		G. Seimandi-Corda, T. Hood, M. Hampson, T. Jenkins, T. T. Hoye, S. M. Cook	C. Scieuzo, R. Salvia, F. Giglio, R. Rinaldi, M. Rubino, E. Derin, F. De Stefano, M. Monti, F. Cozzolino, A. Sgambato, M. Lekka, A. Vilcinskas, P. Falabella	M. Gourgouta*, M.K. Sakka, C.G. Athanassiou	J.G. de Boer, J. Noordijk, E. Smeenk	
		Connecting Global Expertise in Plant Virology and Entomology to Develop Sustainable Pest Management Solutions: The Community Network for Vector-Borne Plant Viruses.	Development and commercialization of Aprehend, a fungal biopesticide for the control and prevention of bed bugs	Evaluation of graphene for the control of stored product insects	Grand challenges in entomology: priorities and actions for the future	
		N. Ockendon-Powell, D. Hird, B. Cronin, J. Daron, M. Bane, E.M. Armstrong, A. Bailey, N. Boonham, G. Foster	N. E. Jenkins, G. Belicanta, D. McCandless, M. B. Thomas	E. Lampiri, R. Karanguran, D. Losic, C. G. Athanassiou	L.A.N. Tilley	
				Insecticidal effect of phosphine against eggs of different stored product insect species in laboratory bioassays		
				M.K. Sakka, M. Gourgouta, C.M. Götze, C.G. Athanassiou		
12:30-13:30	**Plenary Hall**					
	Closing Session					