

## CONFERENCE PROGRAM



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**Cluj-Napoca (Romania) 7 – 9 September 2016**

Wednesday 7 September 2016

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08:00-09:00 Registration (Aula Magna Hall)

09:00-09:15 Welcome address

09:15-10:00 **Plenary lecture Christina Grozinger:** Bee nutrition: from genes to landscapes09:45-10:30 **Coffee Break (Library Hall)**10:30-11:15 **Plenary lecture Adrian Horridge:** The inputs to vision of colour in the honey bee11:15-11:30 **Anneleen Parmentier:** Microbial communities in bumblebees: exploring the unexplored11:30-11:45 **Jessy Praet:** Reversing bumblebee declines: a microbiome approach11:45-12:00 **Pierre Giovenazzo:** Sustaining honeybee health with probiotics12:00-12:15 **Tine Descamps:** Multiple Locus Variable number of tandem repeat Analysis: A molecular genotyping tool for *Paenibacillus larvae*12:15-12:30 **Marion Laurent:** Evolution of the activities of the European network of National Reference Laboratories in the field of honey bee health since 201112:30-12:45 **Marco Porporato:** The European Life Project STOPVESPA: first year of activity and most relevant results12:45-13:00 **Discussions**

Pathology - Coordinated by Dirk de Graaf

Pollinators ecology - Coordinated by Ingolf Steffan Dewenter

**Rakosy Demetra:** How hijacking their pollinator's sexual communication channels drives variation and diversification in a group of Mediterranean orchids;**Laura Moquet:** Pollination effectiveness of different insect visitor species for two ericaceous species**Gherardo Bogo:** Role of non protein amino acids in nectars: effects on bees behavior**Yael Mandelik:** Watermelon pollinators exhibit complementary in both visitation rate and single-visit pollination efficiency**Sanda Mazi:** Diversity of Apoidea and their pollination efficiency on the production of cotton (*Gossypium hirsutum*) plants at Dang, Ngaoundéré, Cameroon**Alon Ornai:** The effects of forest fire buffer zones on pollination webs**Discussions**13:00-15:00 **Lunch (Hotel Napoca) by EurBee Bus from University parking**15:00-15:45 **Plenary lecture Franco Mutinelli:** Small Hive Beetle in Italy15:45-16:30 **Plenary lecture Simon Potts:** Supply and demand of Pollination Services16:30-17:00 **Coffee break (Library Lobby)**17:00-17:15 **Moses Chemurot:** New *Nosema* spp detected in honeybee colonies from two highland agro-ecological zones of Uganda: is it an emerging threat to beekeeping?17:15-17:30 **Qiang Huang:** Purifying selection and siRNA control of *Nosema ceranae*

Pathology

Pollinators

**Kovács-Hostyánszki Aniko:** Impacts of Canadian Goldenrod (*Solidago canadensis*) on native pollinator communities in different-aged old-fields**Robert Brodschneider:** C.S.I. Pollen: Studying pollen diversity available for honey bee colonies in Europe using a Citizen Science

17:30-17:45 **Laurianne Paris:** Causes and consequences of reactive oxygen species production in the gut of honeybees exposed to the parasite *Nosema ceranae* and to the insecticide fipronil


17:45-18:00 **Jevrosima Stevanovic:** The earliest record and first report of *Lotmaria passim* in Serbian honey bees

ecology approach  
**Lina De Smet:** Spatially-explicit analysis of the relation between honeybee health and environmental variables in Belgium

**Discussions**

18:18:30 **Poster Session for Sections 1 - 6 (Life Science Institute Hall)**

**Wednesday 7 September 2016**

	<i>Life Science Institute "Regele Ferdinand" Amphitheater</i>	<i>Life Science Institute "Regina Matia" Amphitheater</i>	<i>University Library Library Amphitheater</i>
11:15-11:30	<b>Ayça Özkan Koca:</b> Geometric morphometric study on honeybees distributed in Bulgaria, Greece and Thrace	<b>Aumer Denise:</b> Reproductive characteristics and genetic analysis of laying <i>Apis mellifera capensis</i> workers with different parthenogenetic strategies	<b>James C Makinson</b> Bees in Space: lifelong radar tracking of bumblebee foragers reveals extreme variation in exploration vs. exploitation strategies;
11:30-11:45	<b>Meral Kekecoglu:</b> A case study, morphometric divergence through loss of original traits of anatolian honey bees: dangerous outcome for turkish beekeeping	<b>Oleg Lewkowski:</b> Social isolation and small group sizes induce stress-related transcriptional changes in workers of the western honeybee ( <i>A. mellifera</i> )	<b>Gerit Dreyersdorff:</b> Impact of strawberry production systems on bumble bees foraging preferences
11:45-12:00	<b>Gayaunan Danailu:</b> An analysis of sub-specific variation of populations of honeybee ( <i>Apis mellifera</i> L.), in West and Central Africa, using geometric morphometrics	<b>Alain Vignal:</b> Understanding the French honeybee populations by whole genome sequencing of haploid drones	<b>Stephan Wolf:</b> Up the social ladder – changing the reproductive potential of honeybee workers
12:00-12:15	<b>İrfan Kandemir:</b> Conservation of <i>Apis mellifera caucasica</i> and <i>A. m. anatoliaca</i> in Turkey	<b>Sara E. Silva</b> Using genomics to understand environmental adaptation of Iberian bumblebees and assess the impact of the use of commercial lineages for crop pollination	<b>Lars Chittka:</b> Sex-specific utilisation of subtle cues in foraging bumblebees
12:15-12:30	<b>Diego Cejas:</b> Cross-species amplification of microsatellite loci in different species of bumblebees (genus <i>Bombus</i> Latreille, 1802)	<b>Tim Regan:</b> Sequence Analysis of the Holobiome of British Honey Bees	<b>Adam Tofilski:</b> Observation of wing movements during honey bees' waggle dances with use of a high speed camera
12:30-12:45	<b>Denis Michez:</b> Genetic variability of European bees with different level of diet specialization and range size	<b>Discussions</b>	<b>Discussions</b>
12:45-13:00	<b>Discussions</b>		
13:00-15:00	<b>Lunch (Napoca Hotel) by EurBee Bus from University parking</b> 		
15:00-15:45	<b>Plenary lecture Franco Mutinelli:</b> Small Hive Beetle in Italy ( <i>Aula Magna</i> )		
15:45-16:30	<b>Plenary lecture Simon Potts:</b> Supply and demand of Pollination Services ( <i>Aula Magna</i> )		

Population genetics – Coordinated by Pilar de la Rua

Genomics - Coordinated by Silvio Erler

Behaviour - Coordinated by Lars Chittka

16:30-17:00	<b>Coffee break (Library Hall)</b>	
17:00-17:15	<b>Population genetics</b>	<b>Silvio Erler:</b> Large scale homogenous sperm mixing for custom design colonies?
17:15-17:30		<b>Laura Jara:</b> Effect of transhumance on the prevalence of <i>Varroa destructor</i> and the colonies genetic diversity in Iberian honeybees
17:30-17:45		<b>Alexis L. Beaufrepaire:</b> Recombination and genetic diversity dynamics in <i>Varroa destructor</i>
17:45-18:00		<b>Discussions</b>
18:00-18:15	<b>Poster Session (Life Science Institute Hall)</b>	
18:15-18:30	<b>Poster Session (Life Science Institute Hall)</b>	

Neurobiology – Coordinated by Jean Cristophe Sandoz


**Ricarda Scheiner:** Tyramine and honeybee behavior – important functions for a neglected neurotransmitter  
**Léa Tison:** Effects of sublethal doses of thiacloprid on the learning and memory performances of honey bees  
**Pierre Charnet:** Voltage-gated Ca<sup>2+</sup> channels of honeybee: cloning and characterization  
**Claude Collet:** Towards an in vitro screening to better understand the toxicity of insecticides, improve anticipation of risk encountered by pollinators and find alternatives  
**HaDi MaBouDi:** Modelling elemental learning of honeybees by spiking neural networks of the lateral antennal lobe tract

**Thursday 8 September 2016**

*Aula Magna “Mihail Serban”*

*A6 Conference Room (Aula Magna Building, level 2)*

08:00-09:00	Registration ( <i>Aula Magna Hall</i> )	
09:00-09:45	<b>Plenary lecture Matthew Webster:</b> The genetic basis of local adaptation in <i>Apis mellifera</i>	
09:45-10:30	<b>Plenary lecture Marcelo Aizen:</b> The impact of invasive bees in agriculture	
10:30-11:00	<b>Coffee Break (Library Hall)</b>	
11:00-11:15	<b>Marie-Pierre Chauzat:</b> The European Union Reference Laboratory for Honey Bee health activities following the detection of <i>Aethina tumida</i> in Italy in 2014;	<b>Reet Karise:</b> Pesticide contamination in beehives is not depending on agricultural intensity
11:15-11:30	<b>Claudia Häussermann:</b> Course of oogenesis in the honey bee mite <i>Varroa destructor</i>	<b>Orawan Duangphakdee:</b> The species diversity and economically utilization of stingless bees in Thailand
11:30-11:45	<b>Bettina Ziegelmann:</b> Evaluation of different application techniques and duration of action of a mating disruption based on the female sex pheromone of <i>Varroa destructor</i> ;	<b>Stavrinides C. Menelaos:</b> Biodiversity of wild bees of Cyprus: past, present and future
11:45-12:00	<b>Yamandú Mendoza:</b> Behavioural resistance of bees is related to tolerance to <i>Varroa destructor</i> and DWV infection level in Uruguay;	<b>Arnon Dag:</b> The importance of fatty acids to honeybee nutrition
12:00-12:15	<b>Paul Page:</b> The Strength of the Weak: Social Apoptosis in the Asian Honey Bee, <i>Apis cerana</i> ;	<b>Discussions</b>

12:15-12:30	<b>Pathology</b> - Coordinated by Dirk de Graaf <b>Nanetti Antonio:</b> A citizen science experience on “Varterminator”, a new antivarroa medicament	<b>Pollinators ecology</b> - Coordinated by Ingolf Steffan Dewenter
12:30-12:45		
12:45-13:00	<b>Michele Mortarino:</b> Effect of Neem ( <i>Azadirachta indica</i> ) oil on varroa mite development in field conditions	
13:00-15:00 <b>Lunch (<i>Hotel Napoca</i>) by EurBee Bus from University parking</b> 		
15:00-23:30 <b>Visit to Salt Mine Turda and Romanian Traditional Evening at “Sarea in bucate” Restaurant <a href="http://sarea-nbucate.ro">http://sarea-nbucate.ro</a></b>		

Thursday 8 September 2016

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*Life Science Institute*  
*“Regele Ferdinand” Amphitheater*

*Life Science Institute*  
*“Regina Maria” Amphitheater*

*University Library*  
*Library Amphitheater*

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11:00-11:15	Population genetics – Coordinated by Pilar de la Rúa	<b>Laetitia Papoutsis:</b> Is the possible genetic variability of <i>Varroa destructor</i> associated with this of <i>Apis mellifera</i> ?	Bee products - Coordinated by Otilia Bobis	<b>Anja Buttstedt:</b> All the royal makings of a queen – Royalactin does not a honeybee ( <i>Apis mellifera</i> ) queen make.	Behaviour - Coordinated by Lars Chitka	<b>Manuel Trischler:</b> Reversed behavioral fever in a eusocial insect? Deformed wing virus infected honey bee workers prefer cooler temperatures.
11:15-11:30		<b>Helene Delatte:</b> Genetic diversity and structure of <i>Apis mellifera</i> in the South West Indian Ocean islands		<b>Saorla Kavanagh:</b> Bioactive and physiochemical properties of Irish <i>Apis</i> and <i>Bombus</i> honeys		<b>Rya Seltzer:</b> Assessing the genetic effects of hygienic behavior: combining methods of classical breeding and artificial insemination
11:30-11:45		<b>Alice Pinto:</b> Patterns of Iberian honey bee variation inferred from the coding regions of whole mtDNA genomes: comparison with the popular intergenic tRNA <sup>leu</sup> -cox2 region		<b>Janko Bozic:</b> Functional stratification of bee bread pellets		<b>Melissa Oddie:</b> Recapping behavior in European honey bees surviving <i>Varroa destructor</i> .
11:45-12:00		<b>Dora Henriques:</b> Genome-wide detection of signatures of selection in non- synonymous positions of iberian honey bee ( <i>Apis mellifera iberiensis</i> )		<b>Annelly Brandt:</b> The neonicotinoid clothianidin affects royal jelly composition and reduces hypopharyngeal size and brood development in <i>Apis mellifera L.</i>		<b>Fany Mondet:</b> Specific cues associated with honey bee social defence against <i>Varroa destructor</i> infested brood
12:00-12:15		<b>Melanie Parejo:</b> Selecting highly informative SNP panels for honey bee conservation management		<b>Christina Kast:</b> Pyrrolizidine Alkaloids in honey and bee-collected pollen produced at apiaries where <i>Echium vulgare</i> is abundant		<b>Meral Kekechoglu:</b> The control of <i>Varroa</i> mite ( <i>Varroa Destructor</i> ) in hygienic honeybee colonies
12:15-12:30		<b>Discussions</b>		<b>Carmen Muresan:</b> Biochemical characterization of MRJP1 and MRJP2 of <i>Apis mellifera</i>		<b>Monica Kos:</b> Effect of cerium (IV) oxide nanoparticles on the feeding behaviour and selected enzyme activities of Carniolan honey bee workers <i>Apis mellifera carnica</i>
12:30-12:45				<b>Mohamed Javed Ansari:</b> Jujube honey improves lipid profile of high fat diet-induced hypercholesterolemia in Wistar rats		<b>Discussions</b>
12:45-13:00				<b>Discussions</b>		
13:00-15:00	<b>Lunch (Napoca Hotel) by EurBee Bus from University parking</b>					
15:00-23:30	<b>Visit to Salt Mine Turda and Romanian Traditional Evening at “Sarea in bucate” Restaurant <a href="http://sarea-nbucate.ro">http://sarea-nbucate.ro</a></b>					

Friday 9 September 2016 (Morning)

Aula Magna “Mihail Serban”

Life Science Institute  
“Regina Maria” Amphitheater

Life Science Institute  
“Regele Ferdinand” Amphitheater

09:00-09:45	<b>Plenary lecture Olav Rueppell:</b> Understanding the potential for multi-trait selection in the honey bee					
09:45-10:00	<b>Pathology</b>	<b>Bee Products</b>	<b>SMARTBEE</b>			
10:00-10:15				<b>Joachim de Miranda:</b> DWV quasi-species evolution during serial transmission: Radiative bursts, conservative selection, defective genomes and symptom attenuation	<b>Sang Mi Han:</b> Anti-wrinkle effects of purified bee venom on facial wrinkles	<b>Kaspar Bienefeld:</b> The Smartbees project
10:15-10:30				<b>Anne Dalmon:</b> First evidence of recombination hotspots and positive selection in Deformed wing virus (DWV)	<b>Meral Kekecoglu:</b> Evaluation of therapeutic effects of propolis against alpha amanitine toxicity in rats	<b>Desiderato Annoscia:</b> <i>Varroa destructor</i> and Deformed Wing Virus are linked in a mutualistic symbiosis accounting for their major role in honeybee colony collapses
10:30 -11:00	<b>Coffee Break (Library Hall)</b>					
11:00-11:15	<b>EurBee Meeting</b>					
11:15-12:00	<b>Plenary lecture Jean Christophe Sandoz:</b> How do bees perceive the olfactory world? A behavioural and neurophysiological account ( <i>Aula Magna</i> )					
12:00-13:00	<b>Poster session for Section 7 Pathology (Life Science Institute Hall)</b>					
13:00-15:00	<b>Lunch (Hotel Napoca) by EurBee Bus from University parking</b> 					

**Friday 9 September 2016 (Afternoon)**

	<b>Aula Magna “Mihail Serban”</b>	<b>Life Science Institute “Regina Maria” Amphitheater</b>	<b>Life Science Institute “Regele Ferdinand” Amphitheater</b>
13:00-15:00	<b>Lunch (Hotel Napoca) by EurBee Bus from University parking</b> 		

15:00-15:45 <b>Plenary lecture Maria Campos:</b> Bee pollen Standard Methods: State of the art ( <i>Aula Magna</i> )			
15:45-16:00	<b>Pathology</b> <b>Robert Paxton:</b> Overwinter honey bee loss caused by a more virulent DWV: genotype B (aka VDV-1)	<b>Bee products</b>  <b>Discussions</b>	<b>SMARTBEE</b> <b>Adriana Aurori:</b> Naturally BQCV infected honeybees, a useful model system to screen for antivirals of plant origin
16:00-16:15	<b>Ibrahim Youssef:</b> Toward a reverse genetic system for Chronic Bee Paralysis Virus molecular studies		<b>Gennaro di Prisco:</b> Neonicotinoids and immunity
16:15-16:30	<b>Philippe Bullet</b> Identifying stressors and effectors of the honeybee immune response, through mass spectrometry, may represent a promising solution for bee health monitoring: HematoBeeTest Project		<b>Ewan Campbell:</b> Proteomic analysis of <i>Varroa destructor</i> saliva: do factors in mite saliva affect bee immuno-competence?
16:30-17:00 <b>Coffee break (Library Hall)</b>			
17:00-17:15	<b>Pathology</b> <b>Fani Hatjina:</b> Lab vs field - Evaluation of the effects of sublethal imidacloprid doses on nurses bees		<b>SMARTBEE</b> <b>Jakob Wegener:</b> Proteomic analysis of hygienic behaviour in <i>Apis mellifera carnica</i>
17:15-17:30	<b>Fabio Sgolastra:</b> Synergistic effects of a neonicotinoid and an EBI fungicide in honey bees, bumblebees and red mason bees		<b>Marina Meixner:</b> Genetic and morphometric variation of <i>A. mellifera mellifera</i> across its range
17:30-17:45	<b>Geoffrey Williams:</b> Neonicotinoid pesticides serve as insect contraceptives: effects on male honey bees		<b>Aleksander Uzunov:</b> Genetic improvement of European honey bee ( <i>Apis mellifera</i> L.) populations
17:45-18:00	<b>Ales Gregorc:</b> Diet Quality and Effects of Pesticides Coumaphos and Imidacloprid on Honey Bee (Hymenoptera: Apidae) Mortality in Laboratory Experiments		

**From 20:00 Banquet at Hotel Napoca**



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