EUROPEAN IUSSI CONGRESS 2024 UNIVERSITY OF LAUSANNE

Amphipôle Building, UNIL-Sorge, 1015 Lausanne, Switzerland



7th-11th July 2024

Full programme

VENUE

Welcome reception

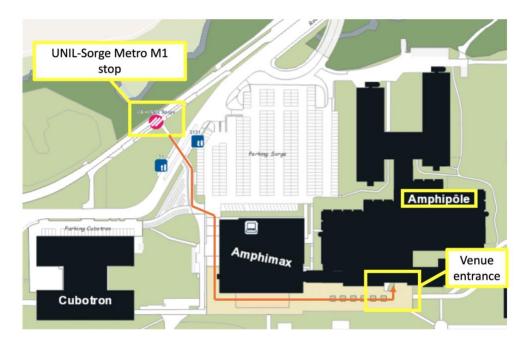
The welcome reception on Sunday (7th July) will take place from 5.30pm to 8pm at the Naturéum, in the **Palais de Rumine**. This building is located in central Lausanne, on the place de Riponne (Metro station Riponne). Please enter through the main gate in the front of the building (picture below), walk up a few stairs and make your way to the 5th floor. The apéro will be on the atrium balcony of the Museum of Zoology (picture below, right side).



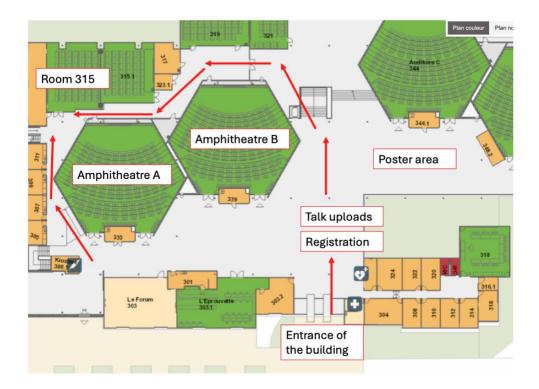


Conference

The conference takes place in the Amphipôle building, most easily accessed via metro to the UNIL-Sorge stop. Directions will be sign-posted.



There are three session rooms: Amphitheatre A, Amphitheatre B and room 315.

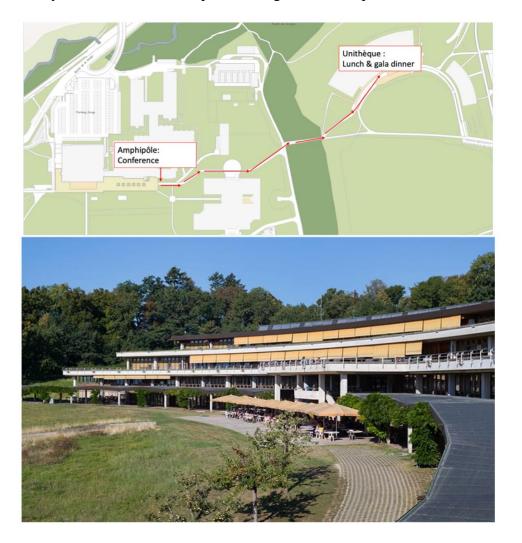


WIFI at the conference

- 1. If your university has provided you an **eduroam** account, you can select this network here on the UNIL Campus.
- 2. If not, you can use the public network with our conference log in:
- On your device, turn wifi on and select the wifi name "public-unil"
- In the pop-up window click on Event Login
- Enter the credentials:
- Username = iussi2024
- Password = iussi2024
- After reading and accepting the terms and conditions, click the Log in button

Meals

Lunch and the gala dinner will be served at the **Unithèque building** (5 min walk from the conference building). Just turn left outside the Amphipole building and follow a little path until you reach a banana-shaped building: the Unithèque.



ORAL PRESENTATION GUIDELINES

General notes

- o The congress only supports **PowerPoint** and **PDF** presentations.
- O All presentations must be uploaded in the **Speakers' Upload Area** at the venue. The Speakers' Upload Area will be located near Amphitheatre B and will be open every day between 8:00 and 17:00. You will be able to view your presentations and should check that all appears and work as expected before leaving the Speaker's Upload Area. Please do not forget to bring a USB stick.
- o Presentations cannot be uploaded in the session rooms and speakers cannot use their own computer for their presentation.
- o Upload your presentation in the Speaker's Upload Area no later than **2 hours** before the start of the session you are speaking in. If you are speaking in the morning session, please try to upload your presentation the day before your talk.
- Please arrive at your session **5 minutes** before the published start time of the first talk and announce yourself to the Chairperson.

Presentation timings

Session speakers are given **14 minutes**, including question time: presentations should not exceed **11 minutes** and allow for **3 minutes** of questions from the audience.

Music will play for 1 min at the end of the 14 minutes to indicate that you must finish your last sentence and leave the stage to the next speaker. To ensure that the three sessions are running in parallel, we ask that you respect these timings.

Keynote speakers have a double slot. Presentations should not exceed **24 minutes** and allow for **5 minutes** of questions from the audience.

Audio-visual material and help

Each room will be equipped with a computer, mics, and a clicker/laser pointer. Computers will run on Windows 10 or 11, supporting PowerPoint and PDF presentations. The Chairperson and technical staff will welcome and assist speakers with the start of each presentation.

POSTER PRESENTATION GUIDELINES

The recommended format for posters is **A0 portrait**. Smaller poster in format will also be accepted. Posters will be presented on vertical panels of 120 (width) x 180 cm (height).

The posters can be put up as soon as you arrive on site and may stay until the last day of the conference. However, we would like to ask you to be present and available to answer questions during the **poster session** (Monday 17:30-19:30).

PROGRAMME

Sunday 7th of July

17:30-	Welcome reception
20:00	Zoology Museum, Naturéum, Palais de Rumine (Metro : Riponne)

Monday 8th of July

8:00-17:00 Registration desk and speaker's upload area are open.

8:45-	Opening remarks and general information by Cleo Bertelsmeier
9:00	Amphitheatre A
9:00-	Plenary 1: Daniel Kronauer
10:00	The Evolution of Ant Societies
	Amphitheatre A
10:00-	Coffee break
10:30	

	Amphitheatre A	Amphitheatre B	Room 315
	SYMPOSIUM: Invasive social insects	SYMPOSIUM: Diversity and evolution of behaviour and communication in bees	OPEN SESSION: Social organization, division of labour and collective behaviour
	Organizers: Cintia Oi, Ulrich Ernst	Organizers: Jean- Christophe Sandoz, Thomas Schmitt, Axel Brockmann	Chair: Abel Bernadou
10:30	Zoé Sherpa	Jean-Christophe Sandoz	Adria LeBoeuf
	Is invasion success related to native niche size in ants?	Neuroethological study of sexual communication in the genus Apis	Keynote: Metabolic division of labor across the superorganism
10:45	Damien Gergonne	Morgane Nouvian	
	Insights into the invasion dynamics of Vespula germanica from a dual-haplotype introduction in South	Communication during colony defence in bumblebees, <i>Bombus</i> terrestris	

	Africa: A RAD-seq		
	analysis		
11:00	Larissa Prado	Bharath Kumar AK	Abel Bernadou
	Genetic population and ecological dynamics: assessing the impact of exotic species on the decline of <i>Bombus dahlbomii</i> (Hymenoptera: Apidae)	Tropical and montane Apis cerana show distinct dance-distance calibration curves	Nutrition influences task allocation and life history trade-offs in ants
11:15	Aymeric Bonnamour	Daniel Rodríguez	Fabrice Savarit
	The impact of colonial history on ant invasions	Honey bee (<i>Apis</i> mellifera) CHC variations: New insight from desaturases and elongases expression assays	Queen behavioural plasticity depends on the number of queens in <i>Ectatomma tuberculatum</i> ants
11:30	Lukas Seehausen	Mark Mescher	Laure-Anne
	The invasion of Switzerland by the Asian yellow-legged hornet, a threat to honeybees and other pollinators	Bumblebee leaf- damaging behavior and its effects on plant flowering	Poissonnier Link between information use and exploratory behaviour in the ant Lasius niger
11:45	Thomas Wagner	Michael Orr	Patrick Schultheiss
	Unveiling Bitter Truths: Exploring Bitter Tolerance in Invasive Ants for Precision Pest Control	The distribution of social bees	Fine-scale navigation: how ants perform systematic searches
12:00	Baptiste Nézel	Anna Friedel	Snigdha
	Consequences of an emerging infectious disease on the invasion extent of the invasive garden ant over space and time.	Do intruders modify the foraging behaviour of the socially polymorphic orchid bee <i>Euglossa viridissima</i> ?	Mukhopadhyay Individual cognitive abilities allow path minimization and task improvement in the ant, Aphaenogaster senilis
12:15	Cleo Bertelsmeier	Anne-Sophie Jatsch	
	Global flows of alien ant species and the erosion of	Comparative chemical analysis of major social pheromone glands in	

	biogeographic boundaries	Asian and European honeybees	
12:30- 14:00	Lunch break (Unithèqu	e)	

	Amphitheatre A	Amphitheatre B	Room 315
	SYMPOSIUM: Coping with climate change: Responses and adaptations in social insects	OPEN SESSION: Reproductive strategies and population genetics	OPEN SESSION: Social organization, division of labour and collective behaviour
	Organizers: Patrick Krapf, Jonna Kulmuni, Richard Gill, Elizabeth Evesham	Chair: Claudie Doums	Chair: Ebi Antony George
14:00	Kieran Storer	Cintia Akemi Oi	Ebi Antony George
	Temperature and Pesticide Interactive Effects on <i>Bombus</i> Terrestris Metabolism and Thermoregulation	Keynote: Behavioural and genetic mechanisms or reproduction in wasps	Familiarity predicts social wound care in ants
14:15	Claire Detrain		Juan Lagos-Oviedo
	Deciphering the effects of temperature increase on ant-aphid mutualism		Convergent evolution of wound care and rescue behaviour in a neotropical army ant
14:30	Jody Helena Voges	Matthieu de Lamarre	Joanito Liberti
	Impact of Climate Changes on Evolutionary Divergence in Mediterranean Crematogaster Ants	Revealing the fine-scale genomic structure of a wood ant supercolony	Gut microbiota influences foraging onset without affecting division of labor and associated physiological hallmarks in honeybees
14:45	Jelena Bujan	Piuli Shit	Ivan Sevostianov
	Unraveling the effects of microclimate on ants in Mediterranean islands	Can everyone become the reproductive?	From the parts to the whole: the nature of synergy

15:00	Jan Kreider	Brendon Boudinot	Ofer Feinerman
	Temperature modulates	Consilience of the	Collective problem
	sociality in the	"Standard" and	solving by ants and
	facultatively social bee	"Hourglass" Models of	people
	Exoneura robusta	Development	
15:15	Romain Libbrecht	Maximilian Bolder	
	Understanding the	How evolutionary	
	impact of thermal stress	conserved is reversibility	
	on colony foundation in	of queen behavioral	
	ants	specialization in ants?	
15:30-	Coffee break		
16:00			

	Amphitheatre A	Amphitheatre B	Room 315
	SYMPOSIUM: Coping with climate change: Responses and adaptations in social insects	OPEN SESSION: Reproductive strategies and population genetics	OPEN SESSION: Disease, immunity & aging
	Organizers: Patrick Krapf, Jonna Kulmuni, Richard Gill, Elizabeth Evesham	Chair: Michel Chapuisat	Chair: Yuko Ulrich
16:00	Harriet Lambert	Carita Lindstedt	Vincent Dietemann
	Are bumble bees gardening? Bumble bees influence flowering time by damaging plant leaves when pollen is scarce	Ecological conditions can promote female- biased sex-ratios: a case study in haplodiploid gregarious pine sawfly	Keynote: Social immunity against <i>Melissococcus plutonius</i> , a brood pathogen of honeybees
16:15	Philipp Hoenle Thermal ecology of New Guinea ants: Integrating mutiple traits in a tropical mountain landscape	Divya Lekha The Plasticity and Developmental Potential in the Eusocial hymenopteran, Oecophylla smaragdina (Fabricius, 1775).	

16:30	Richard Gill	Marion Cordonnier	Clémentine Mathien
10.50	Kicharu Gili	Warion Cordonnier	Clementine Matmen
	Wings of change:	Impacts of	Polyphenol-rich plant
	museum specimens	fragmentation-induced	extract and Lactic Acid
	reveal a century of	edge effects within-	Bacteria improve
	bumblebee trait change	versus between- two	survival of <i>N. ceranae</i>
	with divergent	Temnothorax hybridizing	infected bees
	responses between	species	
	species and castes		
16:45	Barbara Feldmeyer	Mark Brown	Giulia Blasi
	TT 1 1'	W 1 1 2 2 2 4 1	TI I CDM
	How does climate	Who's the queen? Mating	The role of DNA
	change affect social	and colony founding by	methylation in parasite-
	insects?	workers in a 'super- organism'	induced altered gene expression in an ant host
		Organism	expression in an ant nost
17:00	Florian Menzel	Sarya Nadina Fark	Harshit Kumar
			Prajapati
	Which traits determine	Patterns of asymmetric	•
	how social insects can	genomic introgression	Transmission-mediated
	cope with climate	between two Formica	adaptation of virulence in
	change, and in	species	Deformed Wing Virus
	particular with		
	desiccation?		
17:15	Lena Wilfert	Patrick Heidbreder	Enikő Csata
	I and torm study of	Canama wida hamiana	Ant colonies as a whole
	Long-term study of climate effects on	Genome-wide barriers after a history of	mitigate individual-level
	bumble bee fitness:	divergence with gene	effects of fungal
	Temperature and	flow in <i>Formica</i> ants	infections
	precipitation affect	110 III I OTTIMUM MILES	micetions
	health, survival and		
	colony formation in		
	wild-caught spring		
	queens		
17:30-	Poster session		
19:30			

Tuesday 9th of July

8:00-17:00 Registration desk and speaker's upload area are open.

9:00-	Plenary 2: Susanne Foitzik
10:00	(Co)Evolution and Molecular Regulation of Ant Behaviour, Chemical and Life
	History Traits
	Amphitheatre A
10:00-	Coffee break
10:30	

	Amphitheatre A	Amphitheatre B	Room 315
	SYMPOSIUM: Social insects in the Anthropocene - impacts of environmental pollutants and landuse	SYMPOSIUM: Genomic determinants of caste, sex and social organization in eusocial insects	
	Organizers: Ricarda Scheiner, Ingolf Steffan-Dewenter	Organizers: Jonathan Romiguier, Hugo Darras	
10:30	Andrea Ferrari	Michel Chapuisat	
	Effects of urbanisation on the visual and the antennal sensory system of bees and wasps	Keynote: The evolution of supergenes regulating social polymorphisms	
10:45	Ricarda Scheiner		
	Complex interactions of neonicotinoids and fungicides differentially affect honeybee behaviour		
11:00	Vincent Doublet	Joshua Ducancel	
	Wildflower strips for pollinators: Conservation measure or hotspots of disease transmission?	Supergenes and social antagonistic evolution in the ant <i>Myrmecina</i> graminicola	

11:15	Manish Ravi	Natalia Araujo	
	Role of social insects in	Exploring the genomics	
	plant-pollinator	of caste differentiation in	
	interactions in southern	Melipona bees	
11.20	Indian landscapes	TAN D. I.	
11:30	Liliana Fischer	Hélène Boulain	
	Assessing field realistic	Is the selfish drive by the	
	exposure to pesticides	Formica social	
	in wild bumblebee	supergene ancestral or	
	colonies	derived?	
	Colomes	acrivea.	
11:45	Ingolf Steffan-	Qiaowei Pan	
	Dewenter		
		LncRNA gene ANTSR	
	Resource use and	coordinates	
	colony performance of	complementary sex	
	social bees in human-	determination in the	
12.00	modified landscapes	Argentine ant	
12:00	Mark Brown	Ann Kathrin Huylmans	
	Effects of	Sex Chromosome	
	agrochemicals on bees	Evolution in Termites	
12:15	agreementiculs on sees	Louis Allan Okwaro	
		Zugzwang: Elevated	
		histone acetylation in	
		termite queens enhances	
		queen phenotype while	
		accelerating senescence	
		signals	
12:30-	Lunch break (Unithèqu	e)	
14:00			

	Amphitheatre A	Amphitheatre B	Room 315
	OPEN SESSION: Biodiversity, community ecology, invasions	OPEN SESSION: Disease, immunity & aging	OPEN SESSION: Ethology and neuroethology
	Chair: Tomer Czaczkes	Chair: Sylvia Cremer	Chair: Amélie Cabriol
14:00	Marie Bourel	Patrycja Pluta	Volker Nehring
	Sweet confrontations: investigating ant-	High honey bee colony density increases viral	Keynote: Molecular correlates of

	mealybug interactions in pineapple cropping systems in Reunion Island	prevalence and load in wild bees	"habituation" in the ant neural periphery
14:15	Tomer Czaczkes	Tristan Durand	
	Invasive ants evade harmful food by active abandonment	In situ analysis of interactions between deformed wing viruses and sacbrood virus in adult honey bees	
14:30	Tegan Gaetano	Ives Haifig	Hugo Vey-Payre
	(Sea) salt of the earth: Structural plant- pollinator communities mediated by micronutrient reward in Scottish machair ecosystems	Soldiers do not participate in the social immunity of the Neotropical termite Silvestritermes euamignathus (Isoptera: Termitidae)	Comparative approach on the behavioral flexibility of social and solitary bees
14:45	Natacha Rossi	Laura Zavatta	Lohan Valadares
	Quantifying the handling and metabolic costs of pollen collection	Cannabis sativa L. for control of Nosema ceranae infections in honey bees (Apis mellifera L.)	The neuroplasticity of division of labour in the leaf- cutting ant <i>Acromyrmex</i> subterraneus
15:00	Francois Brassard	Flynn Bizzell	Simon Tragust
	Australian ants have stratum-specific responses to a rainfall gradient	Hygienic cannibalism: founding ant queens consume infected larvae to prevent disease spread.	A new puppet-master and its puppet? Behavioural manipulation in the host-parasite system between the fly <i>Strongygaster globula</i> and its ant host
15:15	Donato Grasso		Katja Koskenpato
	Ant-plant interactions in temperate areas: model systems for basic and applied behavioural ecology		High detectability costs select weak warning signal strategy in chemically defended gregarious prey
15:30- 16:00	Coffee break		

	Amphitheatre A	Amphiteatre B	Room 315
	OPEN SESSION: Biodiversity, community ecology, invasions	OPEN SESSION: Disease, immunity & aging	OPEN SESSION: Ethology and neuroethology
	Chair: Xim Cerda	Chair: Christopher Pull	Chair: Amélie Cabriol
16:00	Nils-Christian Schumacher	Lukas Lindorfer	Julie Carcaud
	Living among dominants: Carpenter ant <i>Colobopsis vitrea</i> and its coexistence strategies	Ants disinfect their nest in response to pathogen threat	Keynote: Pheromonal information processing in the honey bee brain
16:15	Sabine Nooten	Ellie Smith	
	Chemical & morphological trait adaptations to challenging climate in alpine bumblebee communities	Exploring variation in superorganismal immunity	
16:30	Kyle Gray	Andreia Teixeira	Marie-Genevieve Guiraud
	First insights into the ant biodiversity of Vanuatu: revising the <i>Pheidole sexspinosa</i> complex using an integrative taxonomic framework	Tissue-specific ageing trajectories along the sociality spectrum in the bees	Active Vision: Bees Tell us Where to Look - Elegant & Simple Solutions to Complex Problem-Solving
16:45	Xim Cerda	Thibaut Renard	Benjamin Jauffret
	Global warming – Until when can the <i>Cataglyphis</i> desert ants be active?	Epigenetic regulation of lifespan in the bumblebee Bombus terrestris	Learning abilities, behavioural flexibility and olfactory sensitivity are associated in Formica fusca ants
17:00	Morgan Morrison	Silu Lin	Sandra Tretter
	Buzzing Alarms: Pathogen Spillover in Protected Areas in Europe	Unveiling the impact of sociality and extrinsic mortality on ageing	The genomic and neural constituents of ant olfaction in the light of social complexity

17:15	Romane Blaya	
	Ant communities on	
	small islands of the	
	Mediterranean basin	

Wednesday 10th of July

8:00-12:00 Registration desk and speaker's upload area are open.

9:00-	Plenary 3: Lars Chittka
10:00	Social insects – ancient civilisations?
	Amphitheatre A
10:00-	Coffee break
10:30	

	Amphitheatre A	Amphitheatre B	Room 315
	SYMPOSIUM: Social insects and their microbial communities	SYMPOSIUM: Beetles and other unconventional social insects	OPEN SESSION: Macroecology, macroevolution and biogeography
	Organizers: Vincent Doublet, Lena Wilfert	Organizers: Jon Andreja Nuotclà, Peter Biedermann	Chair: Sébastien Ollier
10:30	Robert Paxton	Stephen Trumbo	Eddie Pérochon
	Keynote: Do ecological networks explain viral transmission among bee	Keynote: Plasticity of Social Behavior in Burying beetles and	Global-scale patterns of social organization in ants
10:45	communities?	Other Silphinae	Maël Doré Worldwide historical biogeography and diversification dynamics
11:00	Waldan Kwong	Jon Andreja Nuotclà	of ponerine ants Ádám Lőrincz
	Keynote: Cell atlas of the honey bee (Apis mellifera) hindgut	Development speed and brood care demands determine social investment in ambrosia beetles	Ants in space and time: spatiotemporal niche dynamics in ecosystem complexes
11:15		Joel Meunier	Tristan Klaftenberger
		The social life of earwigs	Shades of Diversity: exploring ant colouration across latitudes and environments.

11:30	Arne Weinhold	Antoine Melet	Nathalie Brenner
	Environmental	Artificial selection of a	Evolutionary genetics of
	influences on the	cooperatively breeding	convergent mimicry
	temporal dynamics of	ambrosia beetle: can we	color patterns in
	the bumble bee core-	turn a social insect back	bumblebees
	microbiota	to solitary life?	
11:45	Igor Siedlecki	Claire Bailey	Edouard Duquesne
	Internal or external? -	Uncovering Eusocial	Integrating phylogeny
	microbiota of red wood	Pathways and	and distribution models
	ants' (Formica	Consequences in	to predict habitat
	polyctena) infrabuccal	Snapping Shrimp	suitability of the pest
	pockets		termite genus
	-		Heterotermes
12:00	Jana Dobelmann	Sophie Van Meyel	Marie Hovorková
	X		
	Varroa-free island	If you puke I (might not)	Ant communities in
	refugia reveal how	puke? How relatedness	motion: comparing
	pathogens in honey bee	and social context affects	space-for-time
	and bumble bee	individual's chemical	substitution with
	populations are affected	defence behaviour in a	repeated sampling
	by vector transmission	gregarious pine sawfly.	
12:15	Amélie Cabirol	Maximilian Körner	
	A defined community	What makes him care?	
	of core gut bacteria	Unraveling male	
	promotes learning and	personality and care	
	memory in honey bees	behaviors in a simple	
	. ,	family system	
12:30	Lunch (sandwich and w	rater) provided in front of	Amphitheatre B.
13:00-	Afternoc	on excursions, departing fr	om UNIL:
22:00	7777011100		J. 1224
	- Rochers-de-Naye		
	- Boat tour & Chille	on caste	
	 Wine tasting in La 	avaux	
		percolony in the Jura	
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		an excursion at registration	
		w days in advance and send	
		ate to ask at the reception de	esk in it you have any
	questions.		

Thursday 11th of July

8:00-17:00 Registration desk and speaker's upload area are open.

9:00-	Plenary 4: Bonnie Blaimer
10:00	Social insect diversity patterns: insights from the Hymenoptera Amphitheatre A
10:00-	Coffee break
10:30	

	Amphitheatre A	Amphitheatre B	Room 315
	SYMPOSIUM: Social immunity within and beyond superorganisms	OPEN SESSION: Evolution, phylogeny, systematics, morphology	OPEN SESSION: Evolution of sociality
	Organizers: Erik Frank, Sylvia Cremer	Chair: Dietrich Gotzek	Chair: Peter Biedermann
10:30	Narmin Beydizada	Enrico Schifani	Jacobus (Koos) Boomsma
10:45	Is therapy for everyone? injury-dependent wound care behavior in <i>Cataglyphis</i> ant Christopher Pull	Keynote: Assessing ant diversity in Italy: taxonomy, biogeography, and conservation perspectives	Keynote: The Problems of Eusociality
10.43	Immunity at the "birth" of a superorganism		
11:00	Romain Willeput	Mattia Menchetti	Christian Rabeling
	Susceptibility to fungal infection and constitutive defences in the ant <i>Lasius flavus</i>	The genetic maps of European ants: a roadmap for phylogeography and species discovery	Keynote: Exploring the origin and evolution of social parasitic life history syndromes in ants
11:15	Simon De Wever	Jill Oberski	
	Earwig mothers sanitize their nests to protect offspring from the risk of pathogen exposure	Puzzling taxonomy, ongoing speciation, and social parasitism: The case of the Nearctic pyramid ants	

		(Formicidae:	
		Dorymyrmex)	
11:30	Alexis Beaurepaire	Patrick Brechka	Juliet Turner
	Social immunity	How does the Ant Climb	The evolution of social
	through social learning	the Tree?	complexity in ants
11:45	Yuko Ulrich	Daniela Mera- Rodríguez	Alun Jones
	Infection and behaviour in the clonal raider ant	Integrative approach resolves the convoluted taxonomy of leaf-cutting ants in the <i>Acromyrmex octospinosus species</i> complex	Transcription factors in termite social evolution
12:00	Erin Louise Cole	Dietrich Gotzek	Peter Biedermann
	Social Immunity Across Superorganismal and Cooperative Breeding Termites	Molecular phylogeny of fire ants: Implications for social evolution	The forgotten social order: drivers of the evolution of cooperation in Coleoptera
12:15	Nathalie Stroeymeyt	Gianpiero Fiorentino	
	Architectural immunity: ants modify their nest geometry to prevent epidemics	Fossils reveal universal body size increase in the ant genus <i>Basiceros</i> (Formicidae: Myrmicinae)	
12:30- 14:00	Lunch break (Unithèqu	e)	

	Amphitheatre A	Amphitheatre B	Room 315
	SYMPOSIUM: From individual decisions to collective responses	OPEN SESSION: Environmental pollutants	OPEN SESSION: Genes, genomes and social biology
	Organizers: Ebi Antony George, Morgane Nouvian	Chair: Romain Honorio	Chair: Hélène Boulain
14:00	Elva Robinson	Juliette Gilbert	Matthew Webster
	Keynote: The resilience of dynamic resource-	Assessing the impact of co-exposure to succinate dehydrogenase inhibitor	Keynote: Why do social Hymenoptera have

14:15	sharing networks in wood ants	(SDHI) fungicides and the intestinal parasite Nosema ceranae on honeybee health Danae Nyckees The ingestion of titanium dioxide nanoparticles in combination with glyphosate induces sublethal effects in Cardiocondyla obscurior	extremely high recombination rates?
14:30	Priscila Hanisch	EM Manogem	Marina Choppin
	Foraging behaviour and natural history of the giant ant <i>Dinoponera</i> grandis	Toxicological Assessment of Imidacloprid in Indian honey bees <i>Apis cerana</i> indica Fabricius (1978)	Testing the effects of paternally-inherited social supergene on colony phenotype in Alpine silver ants
14:45	Thomas Richardson	Jason Rissanen	Ruth Moraa
	Nest architecture influences collective activity cycles in ant colonies	Exposure to nicotine enriched diet enhances mortality caused by entomopathogenic fungus in <i>Cardiocondyla obscurior</i> ants	Dynamics of chromosome evolution in termites: Inbreeding, novel chromosomal translocations, and sociality
15:00	Daniela Römer	Romain Honorio	Bitao Qiu
	Worker experience, resource distribution, and the differentiation between nutritional states of their symbiotic fungus in leaf-cutting ants	Does access to family life mitigate the effects of a toxic chemical pollutant in earwig offspring?	Transcriptomics reconstructs the evolutionary history of worker castes in termites
15:15	Peter Chanas	Giovanni Cilia	
	Factors driving occurrence of sunning clusters in the nests of red wood ants <i>Formica polyctena</i>	Effects of microplastic ingestion and co-exposition to Nosema ceranae and flupyradifurone in the survival of honey bees (Apis mellifera L.)	
15:30- 16:00	Coffee break		

	Amphitheatre A	Amphitheatre B	Room 315
	SYMPOSIUM: From individual decisions to collective responses	OPEN SESSION: Chemical ecology and communication	OPEN SESSION: Genes, genomes and social biology
	Organizers: Ebi Antony George, Morgane Nouvian	Chair: David Sillam- Dussès	Chair: Qiaowei Pan
16:00	Tim Landgraf	Baptiste Piqueret	Riddhi Deshmukh
	Keynote: Drifting Bees: Emergent Spatial Separation and Communication	Keynote: Can you smell that? The importance of olfaction in ants: from human disease detection	Evolution of social supergene haplotypes across the Serviformica group
16:15	Efficiency of Honey Bee Dance Communication	to brood signal	Johanna Theresa Pieplow
			Longterm genomic consequences of thelytoky in the Cape Honeybee <i>Apis mellifera capensis</i>
16:30	Matina Donaldson- Matasci	Tomasz Włodarczyk	Nicholas Smith
	The structure and formation of arboreal ant transportation networks	Slave maker ants modify their chemical deception strategy as the colony matures	Striking evidence for social buffering effects in the transcriptome of the ant <i>Temnothorax nylanderi</i>
16:45	Daniela Ramirez Moreno	David Sillam-Dussès	Felipe Cordeiro Dias
	Behind the Stings: self- organization via alarm pheromone responsiveness	Chemical and vibrational signals used in alarm communication by termites	Genomic analysis of Chemosensory Related Genes in bees: Insights into their connection with social organization
17:00	Michal Roitman	Arthur Hais	
	Weights vs zippers: a tale of competition in nest building by Australian weaver ants	Potential role of microbiota on the variation in ants' cuticular chemical profile	

17:15	Linda Sartoris	Anthony Bracuti	
	The effect of circadian	There's no going back:	
	rhythm on	plasticity in adult	
	organisational	honeybee reproduction in	
	immunity of ant	response to queen	
	colonies	pheromone	
17:30	Ehud Fonio		
	Obstacle clearing		
	during cooperative		
	transport by ants		

18:00-	Plenary 5: Patrizia d'Ettorre
19:00	The Mentality of Ants
	Amphitheatre A
19:00	Closing remarks and poster prizes

19:30-	Gala dinner
1:00	Unithèque

POSTERS

Number	Presenter	Title
1	Zimai Li	Immune Division of Labour in the Clonal Raider Ant
2	Liselotte Guillemin	Individual differences in behaviour in ants: a multi-trait study across different species
3	Lina Pedraza	Innovating Invasive Ant Control: Cognitive Intervention for Combatting <i>Linepithema humile</i> in Europe
4	Karolina Kuszewska	The impact of emotions on the health condition of honeybees
5	Ulrich Ernst	Do mated Vespa velutina queens return to their nest?
6	Ana Paula Cipriano	Choosing your battles: trail pheromones from aggressive heterospecific bees modulate foraging decisions of stingless bees
7	Ina Knuf	Molecular regulation of division of labor in the ant Temnothorax longispinosus by a sensory filter
8	Subhashis Halder	Every day counts: Characterizing mutilation and examining its dependence on the age of callow in <i>Diacamma indicum</i>
9	Philip Kohlmeier	Larval chemical cues and their impact on forager behavior
10	Vibhuti Bhat	Evolutionary drivers of rescue and wound care behaviour in a termite hunting ant
11	Bhoomika Ashok Bhat	Nematode infections reshape ant chemical signatures
12	Pierick Mouginot	Temporal dynamics of division of labour and ageing in the clonal ant <i>Platythyrea punctata</i>
13	Fabio Nascimento	Brain plasticity and Age Polyethism in a Neotropical Social Wasp, <i>Polybia paulista</i>
14	Samyuktha Senthil	Drifting behaviour of the buff-tailed bumblebee <i>Bombus</i> terrestris
15	Daouia Messaoudi	Behavior of several subterranean termite species when exposed to polyphenols
16	Akiko Koto	Regulatory mechanisms that cause shorter lifespan in social isolation in <i>Camponotus fellah</i>
17	Ryo Miyazaki	Combinatorial effects of gut microbes on bee physiology and behavior
18	Ching-Han Lee	The regulation of social conflict in the Indian jumping ant (Hapergnathos saltator)
19	Brian Whyte	How social complexity changes recognition and specialization in a clonal ant

20	Margaux Jossart	Impact of a facultative endosymbiont on aphid-ant mutualistic interactions
21	Luisa M. Jaimes Niño	Transcriptomic signature of the spatial navigation and step integration in desert ants
22	Mélissa Haouzi	Quick, I want to have the colonial odour: Rapid acquisition of the chemical signature in the invasive hornet <i>Vespa velutina nigrithorax</i>
23	Tiphaine Bailly	Genetically engineering the pheromone glands of ants to study chemical communication in insect societies.
24	Ittai Warburg	Ant colonies at the Rosh-Hanikra site in northern Israel
25 26	Mariana Cassinelli Selene Escobar-	Beeing in the City: Understanding Morphological Changes in the stingless bee <i>Tetragonisca angustula</i> workers in Urban and Natural Environments Baseline of ant communities in a disturbance gradient
	Ramírez	on San Cristóbal Island (Galapagos)
27	Olivia Bates	A global cross-taxa assessment of niche shifts in invasive species
28	Jerome Gippet	How pests become pets: Invasive species are favored in the global pet trade in ants
29	Carlo Polidori	Niche expansion and niche unfilling in alien bees worldwide: the role of year of introduction and body size
31	Daniele Giannetti	Ant-plant interactions and the effects of climate change
32	Gabrielle Flinn	From Roots to Shoots: The role of meadow ants in restoring grasslands for pollinators
33	Sabrina Juvenal De Oliveira	Relationships between ant communities of forest fragments and adjacent sugarcane fields in South-Eastern Brazil
34	Lena Wilfert	Effects of land-use intensity on pollinator health and pollination services
35	Hugo Darras	Obligate chimerism in male yellow crazy ants
36	Mozhgan Khodadadi	Comparative and experimental approaches to the transcriptomics and genomic regulation of eusociality in halictid bees
37	Asia Piovesan	Back to the future – Spatio-temporal variation of genetic diversity in Swiss Bombus spp.
38	Anu Halonen	Personality does not influence dispersal in <i>Formica</i> exsecta
39	Mara Julseth	Chromosome chains in termite evolution: from inbreeding tolerance to speciation

40	Arthur Matte	Ruling the unruly: larval passiveness enabled size inequality between ant queens and workers
41	Luca Soldini	Searching for toxin-antidote elements in an ant social supergene
42	Ruyan Li	Juvenile hormone as master regulator for asymmetric caste differentiation in ants
43	Tanvi Madaan	The effect of colony living on chronic ant infections
44	Yeahji Jeong	Identification of the pathogen infection trend in global honey bee population
45	Federico Ronchetti	Route of transmission and tissue localization of <i>Wolbachia</i> in a parasitoid wasp attacking an eusocial digger bee
46	Florian Strahodinsky	The costs of multiple infections in ants
47	Ida Holmberg	Slavemaking ants have fewer pathogen recognition genes than their related host ants
48	Mauno Konu	Identification and analysis of RNA viruses in ant societies
49	Harikrishnan Rajendran	Viral infection of ants under individual and social conditions
50	Giovanni Cilia	Circulation of bee pathogens among ants: the importance of spillover from managed honey bee (<i>Apis mellifera L.</i>)
51	Karen Haag	Testing the effect of pyraclostrobin on the gut microbiome of juveniles and adults of a Brazilian stingless bee
52	Ida Cecilie Jensen	Wood ants and their associated microorganisms inhibit plant pathogens
53	Michaela Hönigsberger	Detection and reaction to pathogen cues in ant colonies
54	Rachel Ward	Long live the colony: long-lived summer honeybee workers
55	Elia Nalini	Sharpen knives: the adaptative role of Zinc and Manganese in mandibles of the temporary socially parasitic <i>Lasius</i> species
56	Roxanne Fraser	Evolution and gene regulation of sex chromosomes in termites
57	Marit Kujit	Identification of <i>Formica rufa</i> group species and their hybrids using SNP markers

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