

CENTRE OF EXCELLENCE IN
BIOLOGICAL INTERACTIONS



HELSINGIN YLIOPISTO
HELSINGFORS UNIVERSITET
UNIVERSITY OF HELSINKI



Helsinki 8. - 11.8.2016



FEDERATION OF FINNISH LEARNED SOCIETIES



Finnish Cultural
Foundation



Waldemar von Frenckells stiftelse

Welcome to Helsinki



The North-West European Section of the IUSSE and The Centre of Excellence in Biological Interactions at the University of Helsinki are delighted to invite you to join us at the Union's 6th European meeting to be held 8-11.8 2016 in Helsinki, Finland. Helsinki is the capital of Finland with ca 1 million inhabitants in the metropolitan area. The city is located by the Baltic Sea and is also called the "Pearl of the Baltic". The surrounding areas include a variety of nature types, from small archipelago islets accessible by public transport or taxi boats, to national parks with old growth forests. Helsinki enjoys direct air routes from most European hubs.

Lotta Sundström

The organizing committee

University of Helsinki, Department of Biosciences

Liselotte Sundström (chair)

Nick Bos

Perttu Seppä

Dalial Freitak

Heikki Helanterä

Stafva Lindström

The scientific committee

With representatives from all European sections of the IUSSE

Prof. Mark Brown Royal Holloway, University of London (NW European section)

Prof Stefano Turillazzi University of Florence (Italian section)

Dr Alexandra Schrempf University of Regensburg (Central European section)

Dr Thibaud Monnin CNRS (French speaking section)

Helsinki, the capital of Finland, is a modern city with over half a million residents, and situated by the Baltic Sea. Helsinki alongside its neighboring municipalities of Espoo, Vantaa and Kauniainen form a metropolitan area of more than a million inhabitants. As the conference is located in the heart of Helsinki, all services including pharmacy, shopping opportunities as well as main sightseeing are located nearby the venue and within easy walking distance! The tourist information office of Helsinki is nearby on Pohjois-Esplanadi 19, only a couple of minutes' walk from the University Main building.

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GENERAL INFORMATION

Conference Venue

The conference is held at the University Helsinki Central Campus, which is located less than half a kilometer from the main railway station. All scientific sessions will take place at Porthania (Yliopistonkatu 3) on the ground floor just by the entrance to the building.

The welcome reception and registration will take place at the Natural History Museum (Pohjoinen Rautatiekatu 13) on Monday the 8th. On Tuesday the 9th, the section meetings will take place at 4.30pm in Porthania, and after that the Rector's Reception will be held in the Teacher's lounge in the University Main building. The Conference Dinner on Thursday the 11th will take place on the Uunisaari Island, a short boat ride from mainland Helsinki.

The Conference office will be open during the conference as follows:

- Monday 8.8.2016: from 6 pm to 8 pm in the Natural History Museum
- Tuesday 9.8.2016: from 8 am to 5 pm in Porthania
- Wednesday 10.8.2016: from 8.30 am to 6 pm in Porthania
- Thursday 11.8.2016: from 8.30 am to 6 pm in Porthania

Coffee breaks and poster sessions will take place in the ground floor lobby of Porthania.

Internet access is available through the University of Helsinki (Eduroam and dedicated conference login). In addition, the city of Helsinki offers a free WLAN-service for residents and travelers alike. No passwords or registration required. Just look for "Helsinki City Open WLAN" from the available networks.

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Practical information

Language: There are two official languages in Finland: Finnish and Swedish, but English is widely spoken.

Currency and credit cards: Euro. All major credit cards are accepted (almost everywhere, even with small purchases).

Business Hours: As rule, shops open early and close at 9pm or even later, also on Sundays.

Drinking water: The tap water is safe and tasty.

Electricity: 220 volts AC, 50Hz. European plugs with two round pins are standard.

Smoking: Smoking is prohibited on all University premises, except in designated Smoking areas (outside).

Security, criminality and insurance: Helsinki is a very safe place, however be aware of pickpockets in crowded areas.

Tipping: You do not have to worry about tipping in Finland, unless you get exceptional service and really want to show your appreciation.

Emergencies

Emergency telephone number: 112

Hospitals

24-hour service

- Haartman Hospital Haartmaninkatu 4
tel. +358 (0)9 310 63231/emergency duty or +358 9 310 5018/exchange
- Mehiläinen Töölö (private hospital) Runeberginkatu 47 A
tel. +358 (0)10 414 0444

Pharmacies

24-hour service:

- Yliopiston Apteekki (Mannerheimintie 96) tel. +358 (0)300 20200 (nationwide customer service)
- Yliopiston Apteekki (Mannerheimintie 5), open Mon-Sun 7am - 12midnight
- Inside department store Stockmann

Services

Short-term child care during the conference:

- Mannerheim League for Child Welfare: provides a child-care service for registered users. You can order a babysitter at relatively short-notice to come and look after your child at a set location e.g. your hotel. Service is reliable and relatively cheap (€8,20/hour min. 2 hours). More info at: http://www.mll.fi/en/short_term_child_care_services/.
- To make a reservation please contact iussi2016@nexttravel.fi before the conference

Banks

- Aktia, Mannerheimintie 14, tel. +358 (0)10 247 6600, Mon-Fri 10am - 4.30pm
- Nordea, Aleksanterinkatu 30, tel. +358 (0)200 3000, Mon-Fri 10am - 4.30pm
- OP, Aleksanterinkatu 19, tel. +358 (0)10 255 9015, Mon-Fri 10am - 4.30pm
- Danske Bank, Kaivokatu 6, tel. +358 (0)200 2580, Mon-Fri 10am - 4.30pm

Currency exchange

Forex, telephone 0600-550 095

- Railway Station, Mon-Fri 8am-9pm, Sat-Sun 9am - 7pm
- Mikonkatu 11, Mon-Fri 8am-8pm, Sat 10am - 6pm, Sun closed

Department store Stockmann, 8th floor, Aleksanterinkatu 52B, Mon-Fri 9am - 9pm, Sat 9am - 6pm, Sun 12am - 6pm

Post office

Main post office, Elielinaukio 2 F, tel. +358 (0)200 71000, open Mon-Fri 8am - 8pm, Sat-Sun 10am - 2pm

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Public Transport

How to get around: <http://www.reittiopas.fi/en/>

From the airport to Helsinki

If you arrive by plane to Helsinki-Vantaa airport, there are several ways to get to the city centre:

- Train, lines I and P, both every 10 min between 6.31am and 19.36pm during weekdays, less frequent during other times. Single ticket 5.50 €, best to buy the ticket in advance from the vending machine, otherwise locate the conductor in the train. Duration c. 30 min
- City bus, lines 615, 617, single ticket 5.50 €, less frequent. Duration c. 40 min
- Finnair Bus, single ticket 6.20 €, return 11.40 €, Duration c. 30 min
- Taxi, 40-50€. Collective taxis can be ordered in advance and have a cheaper rate

http://www.airporttaxi.fi/index_airporttaxi_en.html.

Within Helsinki

You can buy tickets directly from the driver on buses and trams, and from the conductors on the trains, but for the Metro you have to buy the ticket in advance from the vending machines in front of the metro entrances. The price for a single ticket within Helsinki is 3.20 € when purchased from the driver/conductor and 2.70 € when purchased in advance from a vending machine. The price for a single ticket for tram only is 2.50 € when purchased in advance from a vending machine. If you are staying several days in Helsinki, it might be better to buy a “tourist ticket” for 1-7 days from one of the many R-kiosks, the Stockmann department store, vending machines, and HSL service point at the main railway station. Remember to wave down buses and trams to signal you want to get on (even when you stand at the stop). Otherwise they will not stop!

Bikes

City bikes are shared-use bicycles that can be used for a fee by anyone in central Helsinki. In summer 2016, there are 500 bikes in 50 locations around the city. In order to make the use of city bikes easy also for visitors, city bikes can be rented using a payment card, without registration, from the following bike stations: Kaivopuisto, Unioninkatu, Rautatientori/East, Kiasma and Hakaniemi Metro Station. With a payment card, you can borrow bikes for 1-4 persons at a time.

Taxi

Taksi-Helsinki, telephone +358 (0)100 0700 (1,15€/phone call +0,08€/10s + local call charge)

Taxis can be ordered by phone, from taxi stands (located throughout the city centre), or hailed from the street. Taxis are available whenever the yellow light on the roof is on. [Back](#)

Places to eat

Places to eat: <http://eat.fi/en/helsinki>

Lunch vouchers to the following University of Helsinki canteens are included in the welcome pack. These are valid at the UniCafé restaurants:

- Unicafe, Ylioppilasaukio, Mannerheimintie 3
- Unicafe Päärakennus, University Main Building, Fabianinkatu 33

Within 5 min walking distance from the conference venue (towards the railway station) are several small restaurants serving lunch, and the University of Helsinki metro station also has several lunch restaurants. Small fish snacks can be bought from stalls on the Market Square in the South Harbour, and while in this area, a visit to the atmospheric Old Market Hall (Vanha Kauppahalli) with restaurants, cafes and specialist food shops is also recommended.

Helsinki has a diverse restaurant scene, and www.eat.fi is the go-to website to find options suitable for different tastes and budgets. If you are a group booking ahead is a good idea. The conference desk can help with this. Below is a short list of restaurants for fine dining (close to the conference venue):

Modern takes on traditional Finnish foods:

- Juuri, Korkeavuorenkatu 27, <http://juuri.fi/en/>
- Karl Johan, Yrjönkatu 21, <http://www.ravintolakarljohan.fi/?lang=en>
- Aino, Pohjoisesplanadi 21, <http://www.ravintolaaino.fi/en/>
- Kuurna, Meritullinkatu 6, <http://www.kuurna.fi/>

Italian:

- Gastone, Korkeavuorenkatu 45, <http://www.gastone.fi/?lang=en>

Vegetable based:

- Spis, Kasarmikatu 26, <http://spis.fi/home/>

Things to do

Helsinki offers a variety of activities – please check out these web sites: <http://www.visithelsinki.fi/en> or <http://www.iussi2016.com> for more comprehensive information about the delights of Helsinki, or consult the conference office

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Maps

How to find important sites during EURO-IUSSI?

Welcome reception

Congress site

Unicafe

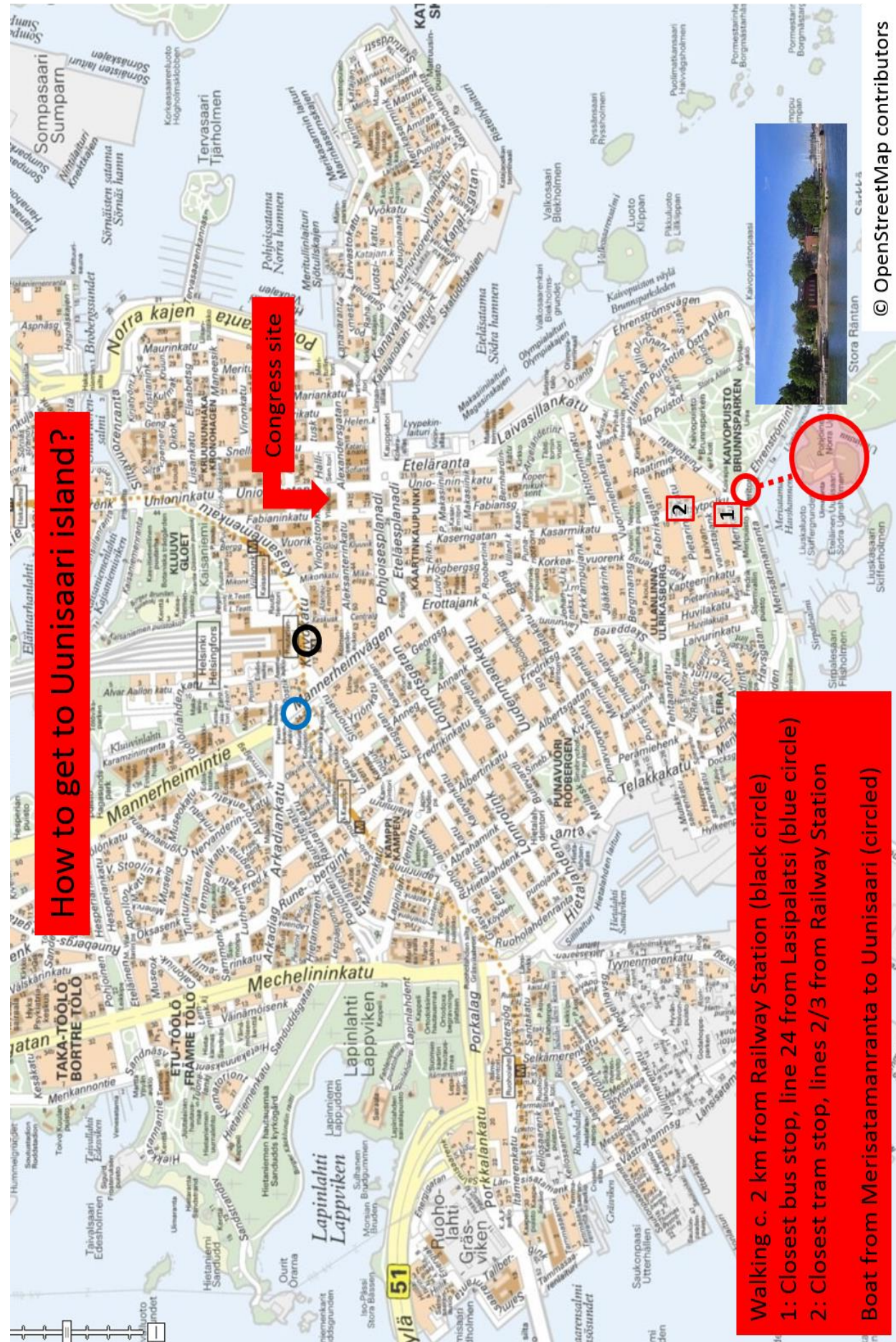
Rector's reception

Unicafe

Free lunch in 2 Unicafe restaurants
Plenty of other options within the marked area

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How to get to Uunisaari island?

Congress site

Walking c. 2 km from Railway Station (black circle)
 1: Closest bus stop, line 24 from Lasipalatsi (blue circle)
 2: Closest tram stop, lines 2/3 from Railway Station
 Boat from Merisatamanranta to Uunisaari (circled)

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Social Program

Welcome Reception & Registration

Monday August 8th, 6 pm - 8pm

- The Finnish Museum of Natural History (Pohjoinen Rautatiekatu 13)
- Includes: light snacks and drinks
- Registration will also take place on Tuesday morning at the conference venue from 8 am until 5 pm

Rector's reception

Tuesday August 9th, 6 pm - 8 pm

- Main University Building in Lehtisali (entrance through Unioninkatu 34). Please contact the organizers if you need disabled access
- Hosted by the dean of the Faculty of Agricultural and Forestry Sciences
- Includes light snacks and drinks

Section meetings

Tuesday August 9th, 4.30 pm - 6 pm

- Rooms PII, PIII, and PIV

Poster session

Wednesday August 10th, 5 pm - 7 pm

- Includes light snacks and drinks

Conference dinner

Thursday August 11th, 7pm - 2 am

- On Uunisaari Island
- Walk, tram (number 2 from Central Railway Station) or bus (number 24 from Mannerheimintie, across from Sokos department store) to Kompassitori (Merisatamanranta 2, 1.8km from Porthania). Followed by a boat from Kompassitori to Uunisaari island. The boat will run from 6.15pm with 40 persons onboard with 10 minutes' interval. For the return, the boat will run every 30 minutes from 11pm onwards. Please refer to the above maps for directions.

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Post-conference Tours

Nuuksio National Park, August 12th

Meeting place and time of departure: outside Kiasma (Mannerheiminaukio 2), 09.00.

Arrival time back in Helsinki: 15:00.

After the welcoming ceremonies and introducing the guides we will start the 2-3 hours hike in the surroundings of Lake Kolmoislampi. This trail highlights some of the oldest trees in the park, and brings you through a variety of different typical boreal habitats, such as small mires, rocky outcrops, and old growth forest. The pace of the hike will be adjusted according to the participants, with ample time to take a closer look at microfauna, such as ants, bees and wasps. With some luck you might run into a moose, or even a flying squirrel. For more information check here:

<http://www.nationalparks.fi/nuuksionp>

Some refreshments will be served during the hike. You will need suitable clothing and sturdy shoes to accommodate for the occasional rain shower. At this time of the year temperatures can range between +15 and +30°C. Don't forget to bring a camera. At the restaurant of the Nature Center you can enjoy a delicious buffet lunch, salad lunch or cafeteria products at the restaurant (lunch not included to the tour price), or you can bring your own lunch pack. After the visit in Haltia you have a shorter hike along an easy path through the rugged scenery, accompanied by your guide, to a lookout point. At the lookout terrace you can see the fjord-like national park and the 8 km long Lake Pitkäjärvi. Here you will be served coffee prepared over open fire and traditional Finnish buns. After the tour to Finnish nature the coach will take you back to Helsinki.

Tvärminne Zoological Station, August 12th-13th (fully booked)

Meeting place and time of departure: Pickup at hotels by 9.00.

Arrival time back in Helsinki: one minibus will return in time for flights departing at 16.00 or later, the other car will have a more flexible schedule and return somewhat later.

Tvärminne Zoological Station is a field station where much of the ant work done by the Helsinki ant group has been conducted. The station is located in the archipelago at the southwestern tip of Finland, ca. 2h drive from Helsinki. The excursion spans two days, starting on Friday 12.8 in the morning so that we will arrive at the station for lunch. In the afternoon we will take a boat ride and go ashore on some of the islands. After that we can explore the nature at and around the station, have a sauna and buffet dinner. On Saturday 13.8 we will have breakfast at the station and make excursions on the mainland. We will have lunch in the nearby seaside town of Hanko and then work our way back to Helsinki to catch any flights leaving in the late afternoon/evening. [Back](#)

SCIENTIFIC PROGRAM

Plenary speakers

Michel Chapuisat - Université de Lausanne



Michel Chapuisat received his PhD from the University of Lausanne in 1997, and is now an associate Professor for the department of ecology and evolution at the University of Lausanne. Michel's research focuses on the evolution of social behavior. He uses genomic, behavioral, ecological and experimental approaches in order to understand the causes and consequences of variation in social organization. Michel also investigates social defenses against parasites in ants.

Ashleigh Griffin - Department of zoology University of Oxford



Ashleigh Griffin is a Royal Society Dorothy Hodgkin research fellow and an associate professor of evolutionary biology at the University of Oxford. In 2008, Ashleigh received a L'Oreal Fellow for Women in Science. Ashleigh is interested in the evolution of cooperative behavior, and her current research uses the bacterial system *Pseudomonas aeruginosa*, as an experimental system for testing predictions of social evolution theory.

Elli Leadbeater - Royal Holloway University of London



Elli Leadbeater received her PhD in 2008 from the Queen Mary University of London. Since 2013, Elli is a lecturer and Leverhulme Early Career Research Fellow at the Royal Holloway University of London. Using ants, bees and wasps as model organism, Elli's current research concentrates on understanding evolution of sociality. In particular, Elli researches uses Honey wasps to understand social insect behavior and communication.

Program overview

| MONDAY | TUESDAY | | | WEDNESDAY | | | THURSDAY | | |
|--|---|--|---|---|---|---|--|-----------------------------------|---|
| 09.00-10.00 | 8.45 - Welcome - Lotta Sundström Plenary - Michel Chapuisat room PI | | | Plenary - Ashleigh Griffin room PI | | | Plenary - Elli Leadbeater room PII | | |
| 10.00-10.30 | coffee | | | coffee | | | coffee | | |
| | room PII | room PIII | room PIV | room PII | room PIII | room PIV | room PII | room PIII | room PIV |
| 10.30-12.00 | 1) Ageing and fecundity in social insects | 2) Open session | 3) Community ecology of social insects | 7) The evolution of eusociality | 8) Nutritional ecology | 2) Open session | 11) Effect of environmental stressors on behaviour and colony function | 2) Open session | 2) Open session |
| 12.00-13.30 | lunch | | | lunch | | | lunch | | |
| 13.30-15.00 | 1) Ageing and fecundity in social insects | 4) Phylogeny, co-phylogeny and evolution in social insects | 5) Genes and mechanisms underlying adaptation | 7) The evolution of eusociality | 9) Social insect ecology, conservation and management | 10) Social insect immunity - individual and collective defences | 11) Effect of environmental stressors on behaviour and colony function | 12) Recognition in social insects | 13) Insights into open questions in adaptation and speciation |
| 15.00-15.30 | coffee | | | coffee | | | coffee | | |
| 15.30-16.30 | 6) Morphological diversity | 4) Phylogeny, co-phylogeny and evolution in social insects | 5) Genes and mechanisms underlying adaptation | 8) Nutritional ecology | 9) Social insect ecology, conservation and management practices | 10) Social insect immunity - individual and collective defences | 14) Shared Pathogens | 12) Recognition in social insects | 13) Insights into open questions in adaptation and speciation |
| Registration & Welcome Reception Finnish NH Museum 18.00 - 20.00 | Global Ant Genomics Alliance 16.30-17.00 PII Section meetings 17.00-18.00 PII, PIII, PIV | | | Poster session 17.00 - 19.00 Porthania lobby | | | Conference dinner 19.00 - 02.00 Uunisaari Island | | |
| | Rector's reception, University Main Building 18.00 - 20.00 | | | | | | | | |
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Instructions for Talks and Posters

Oral presentations

The length of oral presentations is 12min + 3min for questions and transfer between lecture halls. The conference venue is equipped with Windows 7 desktops. The on-screen show display size is 4:3.

Compatible formats for the oral presentations are powerpoint and .pdf. VLC-player is available for videos (please inform the organizers before the meeting if you wish to use video). We do not endorse the use of laptops – if someone insists, the adjustments will encroach on the presentation time allowed. If you prefer people not to tweet about your work, please see section "Social Media".

Presentations should be uploaded on the computer in the lecture hall where the symposium is held, at the very latest during the coffee break before the talk is to be presented. There will be assistants present 30min before the plenaries start, during the all coffee breaks, and during the last 30min of the lunch breaks.

Files should be named: lastname_symposium number.

Posters

Poster size: A0 (841 x 1189 mm) in portrait orientation

Pins will be available to attach posters to the stands. Glue or tape are not needed, or allowed.

Posters will be on display from Tuesday morning until Thursday afternoon. Please arrive in good time before 9am on Tuesday to hang up your poster, the building will be open from 8am. Please remove your poster on Thursday afternoon after the last session.

Social Media

Share your conference experience on facebook and twitter:

Our facebook events page is: EURO IUSSI 2016

Twitter: @EuroIUSSI2016

When tweeting about the talks or issues related to meeting, please use #EuIUSSI2016.

Program changes or other updates during the meeting, will be posted on social media, in addition to the information screens.

If you do not wish your results to be tweeted, please indicate that clearly in every slide of your talk or your poster. If you have a talk please also notify your session chair so that she/he can remind the audience of the no tweet policy before the talk.

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Program

TUESDAY 9.8.

| | | | |
|------|----------------------------------|--|----------------|
| 8:45 | Lotta Sundström | Welcome to Helsinki | Room PI |
| 9:00 | Plenary: Michel Chapuisat | Social evolution, queen number and supergenes | Room PI |

10:00 Coffee

Symposium 1/1 - Ageing and Fecundity in Social Insects Room PII

| | | |
|-------|---------------------|--|
| 10:30 | Jürgen Heinze | Cardiocondyla coming of age |
| 10:45 | Daniel Elsner | Remoulding of the fecundity/longevity trade-off in a fungus-growing termite |
| 11:00 | Denise Aumer | The co-regulation of fertility and the mode of parthenogenesis in parasitic workers of the honeybee (<i>Apis mellifera capensis</i>) |
| 11:15 | Marisa A. Rodrigues | The physiological basis of the fecundity-longevity trade-off in <i>Drosophila</i> as compared to eusocial insects |
| 11:30 | Juliette Poidatz | Reproductive traits of females and males in two invasive hornets |
| 11:45 | José M. Monroy Kuhn | Gene expression profiles in the termite <i>Cryptotermes secundus</i> reveal caste specific responses to senescence |

Symposium 2/1 - Open Session Room PIII

| | | |
|-------|----------------|--|
| 10:30 | Chris Accleton | Does arriving first give you right to rule? |
| 10:45 | David Treanor | Relationships between prevalence of the symbiont <i>Wolbachia</i> and sex, caste, colony size and colony productivity in <i>Temnothorax crassispinus</i> |
| 11:00 | Matteo Negroni | Social structure and colony size, but not body size influences fecundity in the ant <i>Temnothorax rugatulus</i> |
| 11:15 | Rajbir Kaur | Why do leaders ditch societal investment during emergency? Brood transport in an Indian queenless ant |
| 11:30 | Ofer Feinerman | A New Kind of Ant Trail Achieves Efficient Routing in Error-Prone Conditions |
| 11:45 | Sarah Chérasse | Neuroactive compounds associated with behavioural transitions during colony foundation in the ant <i>Lasius niger</i> |

Symposium 3 - Community Ecology of Social Insects Room PIV

| | | |
|-------|------------------------|--|
| 10:30 | Thibaud Monnin | Conditions allowing for the coexistence of Independent vs. Dependent Colony Foundation |
| 10:45 | Abraham Hefetz | Social polymorphism or cryptic speciation in the desert ant <i>Cataglyphis Eyer</i> |
| 11:00 | Jenni Stockan | Drivers of pine tree invertebrate communities: tree chemistry or wood ants? |
| 11:15 | Christelle Sanchez Oms | Heat resistance of the thermophilic ant <i>Aphaenogaster iberica</i> along an altitudinal gradient in Southern Spain |
| 11:30 | Lisa Heuss | Ant community changes under increasing land-use intensity in temperate grassland |
| 11:45 | Tamara Hartke | Phylogenetic and phenotypic divergence in the Australian <i>Amitermes</i> Group |

12:00 Lunch

Symposium 1/2 - Ageing and Fecundity in Social Insects

Room PII

- 13:30 Pierre Blacher Effects of reproductive activation on longevity in *Bombus terrestris* workers
- 13:45 Nathalie Nida Moske Flexibility of testis degeneration in *Cardiocondyla obscurior* males
- 14:00 Balint Marko Reproductive and behavioural correlates of dominance hierarchies in queens in the facultative polygynous ant *Myrmica scabrinodis*
- 14:15 Boris H. Kramer The effect of extrinsic mortality on the evolution of aging phenotypes in social insects
- 14:30 Katrin Kellner Symbiont mediated aging and fecundity in a fungus farming ant system
- 14:45 Ulrich Ernst Live long and prosper - is chromosome maintenance implicated in the extraordinary longevity of termite kings and queens?

Symposium 4/1 - Phylogeny, co-phylogeny and evolution in Social Insect Room PIII

- 13:30 Simon Hellemans Investigating key traits for AQS emergence in Termitinae
- 13:45 Austin Alleman The Genetic Basis for Slavemaker Raiding and Host Defensive Behavior in *Temnothorax* Ants
- 14:00 Michael Poulsen Zero waste and no known diseases in fungus farming termites
- 14:15 Vito Scicchitano Genetic analysis reveals multiple introduction events of the Balkanic *Reticulitermes urbis* in Italy and France
- 14:30 Serge Aron Evolutionary dynamics of social hybridogenesis in *Cataglyphis* desert ants
- 14:45 Alexandre Kuhn Fine-scale population genetic structure in the hybridogenetic ant *Cataglyphis mauritanica*

Symposium 5/1 - Genes and mechanisms underlying adaptation revealed using population genomic approaches

Room PIV

- 13:30 Ronald Nelson Genome architecture of admixture and adaptation in the Africanized honeybee
- 13:45 Matthew Webster Identification of multiple loci associated with social parasitism in honeybees
- 14:00 David Collins Molecular mechanisms of caste determination in bumble bees
- 14:15 Jonna Kulmuni Why certain genomic regions resist gene flow in wood ant hybrids?
- 14:30 Cibichakravarthy Balasubramanian Biogeography of bacterial communities associated with gut ecosystem of termite *Odontotermes* sp.
- 14:45 Graham Thompson From gene list to gene network: recognizing the functional connections that regulate behavioural traits

15:00 Coffee

Symposium 6 – Morphological diversity: development, evolution, ecology of new castes

Room PII

| | | |
|-------|-------------------|---|
| 15:30 | Christian Peeters | Is there a link between miniature ant workers and the evolution of soldiers? |
| 15:45 | Maxence Gérard | Discrimination of haploid and diploid males of bumblebees based on wing shape |
| 16:00 | Eva Schultner | Evolution of Social Insect Polyphenism Facilitated by the Sex Differentiation Cascade |
| 16:15 | Sara Arganda | Statistical brain atlases illuminate the evolution of worker neuroanatomy |

Symposium 4/2 – Phylogeny, co-phylogeny and evolution in Social Insect

Room PIII

| | | |
|-------|--------------------|--|
| 15:30 | Saria Otani | The adaptive significance of fungus-growing termite microbiotas to the evolution of fungiculture |
| 15:45 | Barbara Feldmeyer | The genomic basis of slavemaker evolution in the ant genus <i>Temnothorax</i> |
| 16:00 | Jonathan Romiguier | Phylogenomics controlling for base compositional bias reveals a single origin of eusociality in corbiculate bees |
| 16:15 | Peter Graystock | The importance of host phylogeny and geography on the microbiome of wild bees |

Symposium 5/2 – Genes and mechanisms underlying adaptation using population genomic approaches

Room PIV

| | | |
|-------|------------------|---|
| 15:30 | Amaury Avril | Fine-scale population genomics and sex-biased dispersal in <i>F. selysi</i> |
| 15:45 | Andreas Wallberg | A genome-wide comparison between African highland and lowland <i>Apis mellifera</i> honeybees reveals ancient structural rearrangements associated with behavioral loci |
| 16:00 | Thomas J. Colgan | Pollinator population genomics: Assessment of environmental stresses on bumblebee genetic diversity |
| 16:15 | Eckart Stolle | Super-scaffolding the fire ant genome and detection of chromosomal rearrangements |

| | | |
|---------------|------------------------------|--------------------------|
| 16.30-17.00 | Global Ant Genomics Alliance | Room PII |
| 17.00-18.00 | Section meetings | Rooms PII, PIII, PIV |
| 18:00 – 20:00 | Rector's Reception | University Main Building |

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WEDNESDAY 10.8.

9:00 **Plenary: Ashleigh Griffin** The breakdown of cooperation in natural populations of bacteria and birds **Room PI**

10:00 Coffee

Symposium 7/1 - The Evolution of Eusociality Room PII

10:30 **Mauricio González-Forero** Stable eusociality via maternal manipulation when resistance is costless

10:45 **Philip Kohlmeier** Vitellogenin-6 controls brood care behavior and behavioral maturation in ants

11:00 **Isobel Ronai** The mechanistic, genetic and evolutionary basis of worker sterility in the social Hymenoptera

11:15 **Jacobus J. Boomsma** Superorganismality and caste differentiation as points of no return: how the major evolutionary transitions were lost in translation

11:30 **Emma Vitikainen** When to care about who to care for? Contrasting patterns of discrimination across taxa

11:45 **Yves Roisin** Neotenic: actors or spectators in termite eusocial evolution?

Symposium 8/1 - Nutritional Ecology Room PIII

10:30 **Sara Leonhardt** How to taste pollen quality: bumblebees use chemotactile cues to assess pollen nutritional composition

10:45 **Madeleine Beekman** Dancing for their supper - Do honeybees adjust their recruitment dance in response to the protein content of pollen?

11:00 **Romain Moerman** Impact of pollen resources drift on common bumblebees in NW species

11:15 **Maryse Vanderplanck** Aconitum and Bombus interactions: is floral rewards chemistry driving pollen-mixing behaviour in generalist bumblebees?

11:30 **Jonathan Shik** Nutrition mediates the expression of cultivar-farmer conflict in a fungus-growing ant

11:45 **Winnie Rytter** Tracing the flow of nutrients through the complex symbiotic network of the leafcutter ant *Atta colombica* using stable isotopes

Symposium 2/2 - Open Session Room PIV

10:30 **Akiko Koto** Molecular mechanisms of high mortality in social isolation

10:45 **Ben Oldroyd** Phenotypically normal worker honey bees (*Apis mellifera capensis*) with three alleles at multiple microsatellite loci

11:00 **Donato A. Grasso** Rolling behaviour in a cryptic ant: when escape is the best defence

11:15 **Antoine Felden** Determinants of a novelty-seeking behavioural syndrome in the Argentine ant and evolution along an introduction pathway

11:30 **Amaranta Fontcuberta** Linking supergene to complex social phenotype: a search for the behavioral processes controlling colony queen number

11:45 **Sze Huei Yek** Bacterial community composition in a socially polymorphic ant

12:00 Lunch

Symposium 7/2 - The Evolution of Eusociality

Room PII

| | | |
|-------|--------------------------|---|
| 13:30 | Jack Howe | A novel method for identifying imprinted genes in multiply-mated social Hymenoptera from RNA-seq data |
| 13:45 | Julie Miller | Aligning genetic interests and consequences for collective behaviors in ants |
| 14:00 | Ricardo Caliari Oliveira | Diploid male production results in queen replacement in the stingless bee <i>Scaptotrigona depilis</i> |
| 14:15 | Eyal Privman | Molecular adaptation in olfactory functions in the fire ant social chromosome |
| 14:30 | Elizabeth Duncan | How did control of reproduction and sterile castes evolve in Apid bees? |
| 14:45 | Gijsbert Werner | Phylogenetic comparative analysis of factors driving transitions towards eusociality across the insects |

Symposium 9/1 - Social insect Ecology, Conservation and Management

Room PIII

| | | |
|-------|-----------------|--|
| 13:30 | Joseph Woodgate | Exploration vs exploitation: life-long tracking of bumblebee foraging routes |
| 13:45 | Richard Gill | Mapping hotspots of environmental stress to wild bees across Great Britain |
| 14:00 | Antonella Soro | Sociality, body size and diet breath as predictors of population genetic structure in bees |
| 14:15 | Salla Härkönen | The occurrence of the shining guest ant in red wood ant nests |
| 14:30 | Adam Devenish | Invasive Synergy in an ant-plant mutualism |
| 14:45 | Emily Bailes | Breeding for pollinator friendly crops: the case of the field bean (<i>Vicia faba</i> L.) |

Symposium 10/1 - Social Insect Immunity

Room PIV

| | | |
|-------|---------------------|---|
| 13:30 | Arran J. Folly | The effect of a floral isoflavonoid on the microsporidian <i>Nosema bombi</i> |
| 13:45 | Daniela Römer | Microclimatic preferences for waste management in leaf-cutting ants |
| 14:00 | Christopher D. Pull | Detection and destruction of fatal infections in ant colonies |
| 14:15 | Shulin He | Defend and disinfect: a dual role for soldiers in a complex insect society |
| 14:30 | Claire Detrain | Isolation of fungus-infected ants: a spontaneous or a nestmate-driven behavior? |
| 14:45 | Stefania Meconcelli | Bridging the gap between individual and social immunity in colony disease defence |

15:00 Coffee

Symposium 8/2 - Nutritional Ecology **Room PII**

| | | |
|-------|---------------------------|---|
| 15:30 | Abel Bernadou | Nutritional status and division of labor in a clonal ant species |
| 15:45 | Elva Robinson | Resource redistribution in polydomous ant nest networks |
| 16:00 | Lior Baltiansky | The behavioral mechanism of collective food intake regulation in <i>Camponotus sanctus</i> ants |
| 16:15 | Rafael Rodrigues da Costa | Enzyme capacities to decompose plant biomass in microbial symbionts associated with fungus-growing termites |

Symposium 9/2 - Social insect Ecology, Conservation and Management **Room PIII**

| | | |
|-------|---------------------|---|
| 15:30 | Zsofia Palfi | Effects of soil disturbance on ant-seed interactions in roadside woodland remnants in southern NSW, Australia |
| 15:45 | Daniela Laurino | Firsts results on the impact of the invasive yellow-legged hornet <i>Vespa velutina</i> on natural communities and ecosystems |
| 16:00 | Callum Martin | Are commercially produced bumblebees necessary in strawberry crops? |
| 16:15 | Cristina Castracani | The role of ants as bioindicators in the Biochar-soil fauna interplay |

Symposium 10/2 - Social Insect Immunity **Room PIV**

| | | |
|-------|---------------------|---|
| 15:30 | Sylvia Cremer | Benefits and costs of social immunisation in ants |
| 15:45 | Simon Tragust | Exocrine secretions: internalized medicine? |
| 16:00 | Adele Bordoni | Preliminary data on immunity transmission in <i>Crematogaster scutellaris</i> |
| 16:15 | Nathalie Stroeymeyt | Organisational immunity in ants |

17:00 - 19:00 **Poster Session** **Porthania lobby**

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THURSDAY 11.8.

9:00 **Plenary: Elli Leadbeater** **Social insects and the evolution of social learning** **Room PII**

10:00 Coffee

Symposium 11/1 - Effects of Environmental stressors Room PII

- 10:30 Elizabeth Samuelson Using the radial-arm maze to demonstrate impaired spatial working memory in bees following acute pesticide exposure
- 10:45 Dino McMahon Elevated virulence of an emerging viral genotype as a driver of honeybee loss
- 11:00 Juliana Rangel Pesticides found in pollen and nectar collected by honey bee (*Apis mellifera*) foragers in urban environments
- 11:15 Simon Klein Why social bees are so vulnerable to environmental stressors?
- 11:30 Krzysztof Miler Ants display lower levels of rescue behaviour towards moribund nestmates
- 11:45 Karolina Kuszewska Reproductive potential of workers impact their foraging preferences in honeybee *Apis mellifera*

Symposium 2/3 - Open Session Room PIII

- 10:30 Lou Brossette Journey to the heart of termites' family life: An uncommon inner insight into nascent colonies
- 10:45 Hanna Chol  Antennal response to odorants with innate or acquired valence in honeybees (*Apis mellifera*)
- 11:00 Mathieu Lihoreau Group nutrition in gregarious insects
- 11:15 Morten Schi tt Synergistic breakdown of plant substrate compounds by leaf-cutting ants and their fungal symbionts
- 11:30 Edita Kofronova Energy Management of Commercial Bumblebees during Diapause
- 11:45 Joanito Liberti Comparative proteomics reveals the evolution of seminal fluid proteins at the transition between single and multiple mating in fungus-growing ant queens

Symposium 2/4 - Open Session Room PIV

- 10:30 Kyle Shackleton Crash landings: nest entrance behavior of *Partamona helleri* stingless bees
- 10:45 Manuel Dehon Insights into bumblebee fossils
- 11:00 Rapha l Jeanson Early experience does not shape social performance in spiderlings
- 11:15 Jon Seal Specificity and stability in an obligate, vertically transmitted symbiosis: an experimental analysis
- 11:30 Edmund Hunt Lateralization of behaviour in social insects - emergent adaptive benefits
- 11:45 Tom Wenseleers Novel support for the kin conflict theory of genomic imprinting in the bumblebee *Bombus terrestris*

12:00 Lunch

Symposium 11/2 - Effects of Environmental stressors

Room PII

- 13:30 Laurence Berville Nutritional basis of behaviors: does availability access to carbohydrate resources enhance the competitive ability of invasive ant species?
- 13:45 Dylan Smith Effect of insecticide exposure on bee brain morphology and consequent impacts on behavior
- 14:00 Rémi Gouttefarde Experimental study on the effect of abiotic factors in social insects' nest construction process
- 14:15 Elena Lopatina The interaction of environmental and social factors in the development of the larvae in ants *Myrmica rubra* L.
- 14:30 Julia C. Jones Interactions between gut bacterial community, landscape exposure and behaviour in honey bees
- 14:45 Andres Arce Behavioural responses to pesticide exposure in bumblebees

Symposium 12/1 - Recognition in Social insects

Room PIII

- 13:30 Florian Menzel I smell where you walked - how chemical cues influence movement decisions in ants
- 13:45 Susanne Foitzik The evolution of cuticular hydrocarbons in ants: The influence of inbreeding, parasitic lifestyle, caste and sex on chemical profiles
- 14:00 Marta Elia Social parasites choose host nests by smell
- 14:15 Kévin Berthelot Aggression of foundresses as a potential mechanism for the maintenance of monogyny in the ant *Odontomachus hastatus*: what role for the integration of colonial and fertility cues?
- 14:30 Enikő Csata Could fungal infection shape discrimination abilities in ants?
- 14:45 Jean-Christophe Sandoz A conserved olfactory subsystem for social tasks in Hymenoptera? the basiconic sensilla subsystem of the hornet *Vespa velutina*

Symposium 13/1 - Insights into Adaptation and Speciation

Room PIV

- 13:30 Mathieu Molet Continuous morphological diversity of workers in the ant *Temnothorax nylanderi*: adaptive phenotypic plasticity or relaxed selection?
- 13:45 Tobias Pamminger The evolution of polyandry in the social Hymenoptera: A comparative investigation of the costs and benefits
- 14:00 Lukas Schrader Genome evolution of *Acromyrmex* inquiline social parasites
- 14:15 Quentin Willot Physiological adaptations of *Cataglyphis* desert ants to severe heat conditions
- 14:30 Tabitha Innocent The maintenance of defensive microbiomes and the avoidance of antibiotic resistance
- 14:45 Mariya V. Zhukova Gut bacterial transmission strategies in leaf-cutting ants

15:00 Coffee

Symposium 14 – Shared Pathogens

Room PII

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|-------|-------------------|--|
| 15:30 | Robert Paxton | Pathogen spill-over among bees in Europe and Asia |
| 15:45 | Robyn Manley | Condition dependent effects of multi-host pathogens in a bumblebee |
| 16:00 | Matthias A. Fürst | Viral diversity in ant communities |
| 16:15 | Francisco Davila | Bacteria living with long lived ant sperm |

Symposium 12/2 – Recognition in Social insects

Room PIII

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|-------|-------------------|--|
| 15:30 | Yael Vilk | Navigating in the dark: conflicting signals inside the nest of <i>Camponotus fellah</i> ants |
| 15:45 | Iris Albrecht | Always at your service, Your Majesty: Macrocyclic lactones elicit subordinate behavior in <i>Lasioglossum malachurum</i> workers |
| 16:00 | Thomas Richardson | Queen pheromone signalling in the honey bee |
| 16:15 | Adria C. LeBoeuf | Oral exchange of growth hormones and proteins influences larval development in ants |

Symposium 13/2 – Insights into Adaptation and speciation

Room PIV

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|-------|------------------|---|
| 15:30 | Sacha Zahnd | Assortative mating limits gene flow between socially polymorphic ant species |
| 15:45 | Pnina Cohen | Adaptation in populations of invasive fire ants |
| 16:00 | Christophe Lucas | Is there any link between foraging, defense and dispersion behaviors? Evidence from the candidate gene foraging |
| 16:15 | Lena Waidele | Bacterial but not protist gut microbiota align with ecological specialization in lower termites |

19:00 – 2:00

Conference dinner

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| 2. | Mating, immunity and longevity in ant males <u>Sina Metzler</u> , Leila El Masri, Miriam Stock, Sylvia Cremer, Jürgen Heinze, Alexandra Schrempf |
| 3. | Convergent evolution of longevity in eusocial cockroaches and hymenoptera <u>Mark Harrison</u> , Evelien Jongepier, Nicolas Arning, Lukas Kremer, Erich Bornberg-Bauer |
| 4. | Social behaviour and the reversal of a life history trade-off in a facultative social orchid bee <u>Alice Séguret</u> , Fernando Fleites-Ayil, Javier Quezada-Euan, Robert Paxton |
| Community ecology of social insects | |
| 5. | Formicidae stratification in an agroforestry system in Brazil and its importance in plantation management <u>Jacques Delabie</u> , Edie Ferraz, Wesley DaRocha, Cléa Mariano, Frederico Neves |
| Effect of environmental stressors on behaviour and colony function | |
| 6. | Plasticity in daily behavioral rhythms of the ant <i>Camponotus rufipes</i>: the effect of food availability and caste affiliation <u>Stephanie Mildner</u> , Flavio Roces |
| 7. | The ant-fungus mutualism of leaf-cutting ants: Microclimatic preferences to cultivate the symbiont <u>Daniela Römer</u> , Martin Bollazzi, Flavio Roces |
| 8. | Wolbachia as drivers of speciation in <i>Cardiocondyla obscurior</i> <u>Cigdem Ün</u> , Jürgen Heinze, Jan Oettler |
| 9. | The influence of carbon dioxide on the construction of ventilation turrets in leaf-cutting ants <u>Florian Halboth</u> , Flavio Roces |
| 10. | Tracking major endocrine regulatory pathways along queen's life cycle in the buff-tailed bumblebee, <i>Bombus terrestris</i> Pavel Jedlicka, Ulrich Ernst, Alena Votavová, Robert Hanus, <u>Irena Valterová</u> |
| 11. | Temperature variations affect the fighting ability of the invasive garden ant <i>Lasius neglectus</i> towards autochthonous species Filippo Frizzi, Viola Bartalesi, Alberto Masoni, <u>Giacomo Santini</u> |
| Genes and mechanisms underlying adaptation revealed using population genomic approaches. | |
| 12. | Patterns of speciation: differential gene expression underlying hybrid fitness <u>Jack Beresford</u> , Roger Butlin, Jonna Kulmuni |
| 13. | Vitellogenin acts as a behavioural modulator in tapeworm-infected ants <u>Sara Beros</u> , Bianca Stapelfeldt, Susanne Foitzik |

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| 14. | Mollicutes bacteria: new mutualistic endosymbionts in fungus-growing ant guts? <u>Panagiotis Sapountzis</u> , <u>Mariya Zhukova</u> , <u>Anna S. Fomsgaard</u> , <u>David R. Nash</u> , <u>Morten Schiøtt</u> , <u>Jacobus J. Boomsma</u> |
| Morphological diversity: the development, evolution and ecology of new castes. | |
| 15. | A method for profiling gene expression and sexing larvae in a cuckoo bumble bee, <i>Bombus vestalis</i> <u>Marjorie Labédan</u> , <u>David H. Collins</u> , <u>Anders Wirén</u> , <u>Tamas Dalmay</u> , <u>Andrew F. G. Bourke</u> |
| Nutritional ecology | |
| 16. | Tracking food economics in bumblebee micro-colonies (<i>Bombus terrestris</i>) using lanthanides <u>Lenka Machackova</u> , <u>Alena Votavova</u> , <u>Ivan Rehor</u> , <u>Stanislava Matejkova</u> , <u>Katerina Cerna</u> , <u>Jakub Straka</u> |
| Phylogeny, co-phylogeny and evolution in social insects. | |
| 17. | The genomes of the slavemaker ant <i>Temnothorax americanus</i> and its host <i>T. longispinosus</i> <u>Evelien Jongepier</u> , <u>Barbara Feldmeyer</u> , <u>Erich Bornberg-Bauer</u> , <u>Susanne Foitzik</u> |
| 18. | Is the ant <i>Myrmica lonae</i> a good species, separate from <i>M. sabuleti</i>? <u>Riitta Savolainen</u> , <u>Kari Vepsäläinen</u> |
| 19. | Diversity and composition of the hindgut microbial communities in lower termites <u>Veronica Chevasco</u> , <u>Simon Dupont</u> , <u>Anne-Geneviève Bagnères</u> , <u>Franck Dedeine</u> |
| 20. | Phylogeography of European dry-wood dwelling termites of the genus <i>Kaloterms</i> (Isoptera, Kalotermitidae). <u>Vito Scicchitano</u> , <u>Franck Dedeine</u> , <u>Barbara Mantovani</u> , <u>Andrea Luchetti</u> |
| 21. | Evolutionary origin and diversification of mutualistic symbioses between <i>Reticulitermes</i> termites and <i>Trichonympha</i> protists <u>Franck Dedeine</u>, <u>Sylvain Guyot</u>, <u>Philippe Gayral</u>, <u>Simon Dupont</u>, <u>Anne-Geneviève Bagnères</u>, <u>Andrea Luchetti</u> Retracted |
| 22. | New case of asexual queen succession and its implications for understanding the significance and evolution of parthenogenetic reproductive strategies in termites <u>Romain Fougeyrollas</u> , <u>Jan Krivánek</u> , <u>Sophie Frechault</u> , <u>Klára Dolejšová</u> , <u>David Sillam-Dussès</u> , <u>Yves Roisin</u> , <u>Robert Hanus</u> , <u>Virginie Roy</u> |
| Recognition in social insects. | |
| 23. | Evolution of queen pheromones and fertility cues in vespine wasps <u>Cintia Akemi Oi</u> , <u>Kevin Loope</u> , <u>Jocelyn G. Millar</u> , <u>Jelle Stijn van Zweden</u> , <u>Tom Wenseleers</u> |
| 24. | Ants Discriminate Between Different Hydrocarbon Concentration <u>Giuseppe Di Mauro</u> , <u>Margot Perez</u> , <u>M. Cristina Lorenzi</u> , <u>Fernando Guerrieri</u> , <u>Jocelyn Millar</u> , <u>Patrizia d'Ettore</u> |
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| 26. | Theories of nestmate recognition <u>Volker Nehring</u> |
| 27. | Vibroacoustic communication in <i>Crematogaster scutellaris</i> ant (Oliver 1792) |

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| 28. | Comparison of substrate-borne vibrations in a paper wasp social parasite-host system: <i>Polistes sulcifer</i> and <i>P. dominula</i> <u>Rachele Nieri</u> , Irene Pepiciello, Alessandro Cini, Valerio Mazzoni, Rita Cervo |
| 29. | Tending without reward - chemical manipulation of ants by caterpillars? <u>Anne Andersen</u> , Chloé Leroy, Patrizia d'Ettorre, Rachelle Adams |
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| 30. | Ageing of <i>Myrmica scabrinodis</i> goes with heavier infection by <i>Rickia wasmannii</i> Ferenc Báthori, Walter P. Pfliegler, Zoltán Rádai, <u>András Tartally</u> |
| 31. | First evidence for sex-ratio biasing by <i>Wolbachia</i> in a social insect Luigi Pontieri, Anna M. Schmidt, Rohini Singh, Jacobus J. Boomsma, <u>Jes Søe Pedersen</u> , Timothy A. Linksvayer |
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| 32. | Distribution of wood ant mounds in the Białowieża Forest <u>Izabela Sondej</u> , Timo Domisch, Leena Finér, Wojciech Czechowski |
| 33. | Community of eusocial bees living in cacao plantations of the state of Bahia, Brazil. <u>Cléa Mariano</u> , Jailson de Almeida Jr, Favízia de Oliveira, Jacques Delabie |
| 34. | Contributing to the knowledge and management of the invasive hornet <i>Vespa velutina</i>: sexual communication and competition with native hornets <u>Alessandro Cini</u> , Gianfranco Anfora, Federico Cappa, Francesca Romana Dani, Irene Pepiciello, Iacopo Petrocelli, Stefano Turillazzi, Laura Bortolotti, Rita Cervo |
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| 37. | Do juveniles prophylactically increase their immune response in presence of infected sibling? <u>Fanny Vogelweith</u> , Jos Kramer, Joël Meunier |
| 38. | Individual and collective defence behaviors of ants against bacterial infection of the colony <u>Barbara Milutinovic</u> , Marko Bracic, Sylvia Cremer |
| 39. | The effects of floral resources on the parasite prevalence of bumblebees and solitary bees. <u>Joanne Carnell</u> |
| 40. | Antimicrobial potential of the fungus-growing termite symbiosis <u>Haofu Hu</u> , Victoria L. Challinor, Saria Otani, Nina Kreuzenbeck, Christine Beemelmans, Michael Poulsen |
| 41. | Change in the immunocompetence of honey bee workers with senescence and behavioural task Federico Cappa, Iacopo Petrocelli, Alessandro Cini, Irene Pepiciello, Michele Giovannini, Anna Marta Lazzeri, Brunella Perito, Stefano Turillazzi, <u>Rita Cervo</u> |
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| | Alessandro Cini, Adele Bordoni, Federico Cappa, Iacopo Petrocelli, Immacolata Iovinella, Francesca Romana Dani, Stefano Turillazzi, Rita Cervo |
| 43. | Tracking colony development after queen pathogenic exposure Retracted Barbara Casillas-Perez, Christopher Pull, Filip Naiser, Jiri Matas, Sylvia Cremer |
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| 44. | The importance of direct fitness for workers in a Temnothorax ant Julia Giehr, Jürgen Heinze |
| 45. | Influence of queen and worker age composition on colony fitness Alexandra Schrempf, Julia Giehr, Juergen Heinze |
| 46. | Smart wasps: Do the demands of a complex breeding strategy lead to increased investment in brain tissue in solitary wasps Feargus Cooney, Jeremy Field, Farah Ahmed, Thomas Currie, Michael Cant |
| 47. | Unravelling queen pheromone sources in bumblebees Sarah Anne Princen, Maura Van Impe, Annette Van Oystaeyen, Tom Wenseleers, Jelle Stijn van Zweden |
| 48. | Can genes express communicational skills in the ant Camponotus sericeus? Daphna Gottlieb, Shani Inbar, Eyal Privman |
| 49. | Behaviour of males in primitively eusocial wasp societies: parasites or helpful brothers? Robin Southon, Andy Radford, Seirian Sumner |
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| 50. | Soil mites (Oribatida) inhabiting red wood ant Formica polyctena nests and surrounding soil in SW Finland Riikka Elo, Ritva Penttinen, Jouni Sorvari |
| 51. | Horizontal transmission of the vertically inherited fungal symbiont of the leaf-cutting ant Acromyrmex echinatior Jack Howe, Morten Schiøtt, Jacobus J Boomsma |
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| 53. | The role of ants in a natural insect-plant multitrophic system: first field survey in Italy on common vetch plants (Vicia sativa) Daniele Giannetti, Cristina Castracani, Alessandra Mori, Donato A. Grasso |
| 54. | Are vegetated wood ant mounds at a disadvantage? Marjan Lintermans, Jenni Stockan |
| 55. | How to sequence an ant? A Comparative analysis of approaches to sequencing and assembly of hymenopteran genomes Tal Yahav, Abraham Hefetz, Eyal Privman |
| 56. | First characterization of the circadian clock of C. floridanus Janina Kay, Pamela Menegazzi, Eva Winnebeck, Charlotte Helfrich-Förster |

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| 57. | Sociogenomics of maternal care and mother offspring interaction in the earwig (<i>Forficula auricularia</i>) <u>Min Wu</u> , Jean-Claude Walser, Lei Sun, Mathias Kölliker |
| 58. | Evolving Eusociality: Using <i>Drosophila</i> to understand how queen pheromone inhibits reproduction in worker honeybees <u>Mackenzie Lovegrove</u> , Elizabeth Duncan, Peter Dearden |
| 59. | Behaviour of single young honeybees and groups of young honeybees in a temperature gradient <u>Sibylle Hahshold</u> , Renate Ploder, Gerald Radspieler, Martina Szopek, Thomas Schmickl, Karl Crailsheim |
| 60. | Fitness and Aging in <i>Cardiocondyla obscurior</i> Ant Queens <u>Jan Oettler</u> |
| 61. | Comparing behavior and properties of real and simulated honeybees controlled by the BEECLUST algorithm <u>Martin Stefanec</u> , Gerald Radspieler, Daniela Kengyel, Thomas Kunzfeld, Sibylle Hahshold, Thomas Schmickl |
| 62. | Ecological relationships between social insects and <i>Saccharomyces</i> yeasts Leonardo Dapporto, Irene Stefanini, Damariz Rivero, Adele Bordoni, <u>Stefano Turillazzi</u> , Duccio Cavalieri |
| 63. | The Molecular Basis of Cuticular Hydrocarbon Detection in the Ant <i>Harpegnathos saltator</i> <u>Gregory Pask</u> , Jocely Millar, Jesse Slone, Prithwiraj Das, Jardel Moreira, Xiaofan Zhou, Jan Bello, Laurence Zwibel, Anandasankar Ray |
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