



2022 Prague – Czech Republic

# Congress of the European Society for Evolutionary Biology

August 14–19, 2022

Prague Congress Centre

# Final Programme

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## Welcome Letter

Welcome to the **ESEB 2022 Congress**, which takes place **August 14–19, 2022** at the Prague Congress Centre in the **Czech Republic**.

The European Society for Evolutionary Biology (ESEB) meetings have been held every two years (this one is exceptional due to the pandemic after three years) since 1987 and are currently one of the largest conferences in the field of evolutionary biology. Over 1500 participants attend the conference in Prague.

The congress will open on Sunday, August 14, 2022 with a welcome reception and will run until Friday, August 19, concluding with a conference dinner at the Občanská plovárna restaurant.

While we understand the difficulties associated with the current pandemic situation, we are confident that with responsible behaviour from all of us, we can manage it. It is a great pleasure to welcome you and I hope you will enjoy the personal meeting, make new contacts and gain new impulses for your scientific work. I hope that you will all also find time to explore the cultural beauty, history and hopefully nature of our capital city and its surroundings.

I see evolutionary biology primarily as an effort to understand the history of life and the laws that have moved, are moving, and will move our world. In today's turbulent times of misinformation and near brutal war, it is more than necessary to build on the giants of our fields, such as Darwin and Mendel, whose 200<sup>th</sup> anniversary of birth we now commemorate and who was the most brilliant scientific figure of the Czech-German culture circle. I hope that our meeting will contribute to the ethos of science as an endless but far from futile search for the truth about the world and to the development of humanistic traditions.

**I wish us all a successful conference!**



**Lukáš Kratochvíl**



## Committees

### Scientific Committee

**Lukáš Kratochvíl**  
*Charles University, Prague*

**Tomáš Albrecht**  
*Czech Academy of Sciences, Studenec & Charles University, Prague*

**Stuart J.E. Baird**  
*Czech Academy of Sciences, Studenec*

**Ellen Decaestecker**  
*KU Leuven, Belgium*

**Joelle Gouy de Bellocq**  
*Czech Academy of Sciences, Studenec*

**Filip Kolář**  
*Charles University, Prague*

**Miloš Macholán**  
*Masaryk University, Brno & Czech Academy of Sciences, Brno*

**Pavel Munclinger**  
*Charles University, Prague*

**Zuzana Münzbergová**  
*Charles University, Prague & Czech Academy of Sciences, Průhonice*

**Zuzana Musilová**  
*Charles University, Prague*

**Adam Petrusek**  
*Charles University, Prague*

**Martin Reichard**  
*Czech Academy of Sciences, Brno*

**Radka Reifová**  
*Charles University, Prague*

**Kristina Sefc**  
*University of Graz, Austria*

**Marta Szulkin**  
*University of Warsaw, Poland*

**Nicole Valenzuela**  
*Iowa State University, USA*

**Maren Vitousek**  
*Cornell University, USA*

**Justyna Wolinska**  
*Freie Universität Berlin, Germany*

### Organization committee

**Lukáš Kratochvíl**  
*Charles University, Prague*

**Alice Exnerová**  
*Charles University, Prague*

**Pavel Hulva**  
*Charles University, Prague & University of Ostrava*

**Michail Rovatsos**  
*Charles University, Prague*

**Bojana Stojanova**  
*University of Ostrava*

**Marcela Rajtorová**  
*GUARANT International*

**Anna Pražáková**  
*GUARANT International*

**Jasna Vukić**  
*Charles University, Prague, Czech Republic*

## Congress Venue

The ESEB 2022 will take place in **Prague Congress Centre (PCC)** which is one of the modern architectural landmarks of Prague and the largest convention and culture centre in the Czech Republic.

The Prague Congress Centre ranks among the best-known congress venues in Europe with more than 50 halls, reception and meeting rooms with the total capacity of up to 9,300 people, and 13,000 m<sup>2</sup> of exhibition space.

Its location is very practical, being easily accessible from the city centre by underground or motorway. The Prague Congress Centre is situated in a unique location with a beautiful panoramic view of Prague with its large parks, the Vltava River and Prague Castle.

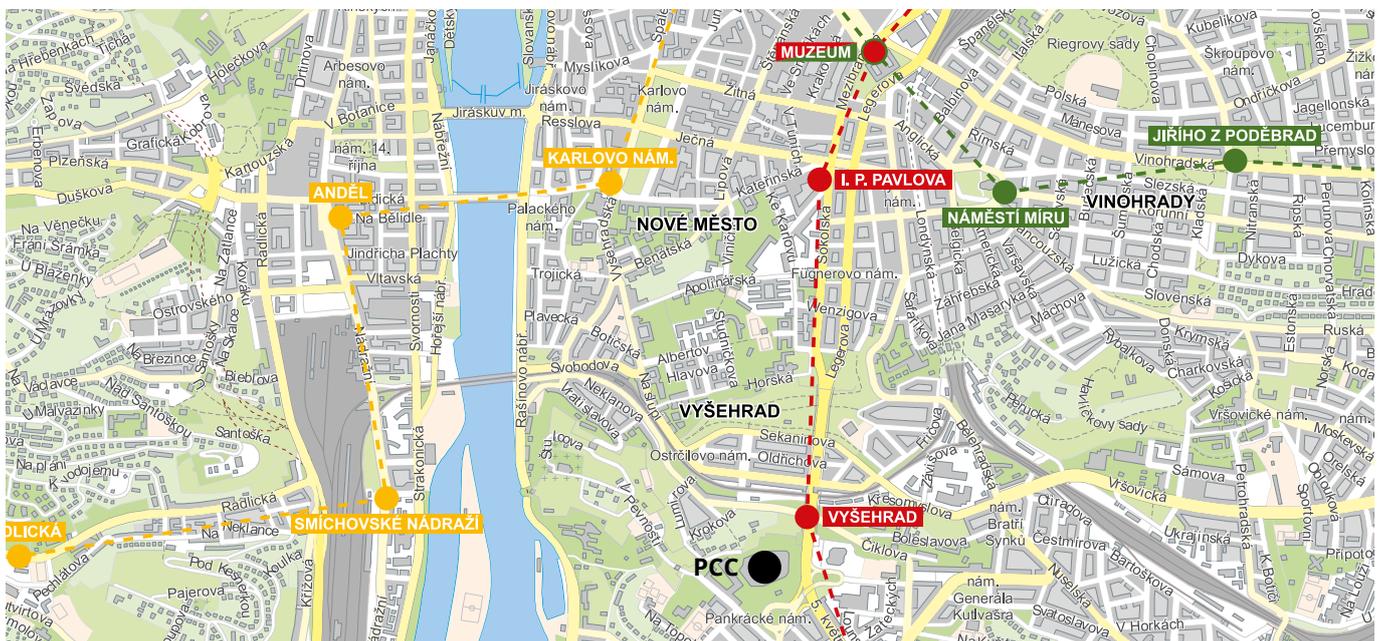
### Address:

**Prague Congress Centre (PCC)**

5. května 165

140 00 Prague 4, Czech Republic

Website: [www.praguecc.cz](http://www.praguecc.cz)



### How to get to the Prague Congress Centre

The Prague Congress Centre can be easily reached by metro line C (red line) to the station “Vyšehrad”, the PCC is located just in front of the metro station.

#### From the Airport

Take the bus **No. 119** towards “Nádraží Veveslavín” (METRO station). Leave the bus at the end stop and change for the METRO green line “A” the direction towards “Depo Hostivar”. You will go 7 stops to the station “Muzeum”. Change there for the METRO red line C and go to the station “Vyšehrad”. The PCC is just next to this station. Travel by public transport will take approximately 45–50 minutes.

Public transport tickets must be purchased in advance, before boarding public transport buses. Tickets are sold by the Visitor Centre, Prague Public Transit company counters at Arrival Halls, available from ticket machines located around Terminals 1 and 2 Arrival Halls and directly at bus stops. Most ticket machines at the airport accept contactless credit card payments. The ticket from airport to the PCC costs 40 Czech crowns.

More information about transportation is available [here](#).

A taxi ride from the airport to the PCC will take approximately 30–45 minutes and costs about 25–30 EUR.

#### By train

Prague Main station (Praha Hlavní nádraží) is in the city centrum and close to the conference venue (3 stops by metro line C). We recommend to check <https://idos.idnes.cz/en/vlakyautobusymhdvse/spojeni/>

#### By car

The Prague Congress Centre is adjacent to the North-South Prague City Expressway – follow the road signs for Kongresové centrum Praha.

GPS: 50.062112, 14.428886

#### Parking information

Limited parking space is available in the Prague Congress Centre’s underground car park. For more information about parking please visit <https://www.praguecc.cz/en/parking-in-pcc>

#### Paid Parking zones – Parking in Prague

In Prague, parking is regulated by PAID PARKING ZONES (PPZ) in order to protect residents living in parts of town with a lot of traffic and to motivate visitors to avoid these parts of town and park in said zones only for period of time they really need.

For more information about paid Parking zones please visit <http://www.parkujvklidu.cz/prague-parking/>

# Registration

Registration Fees	LATE/ON-SITE from June 16, 2022
ESEB-Member	€560,00
Non-member	€710,00
ESEB Student*	€310,00
Non-member Student*	€410,00

**Registration fees include 21 % VAT.**

*\*Applicants must be full-time students at the time of the Congress and are required to upload or show their valid student ID card scanned from both sides or a confirmation of their student status issued by the university / institution. Students registration fee applies for PhD or undergraduates.*

**The registration fee for Delegates includes:**

- Admission to all Congress scientific sessions
- Admission to the Exhibition area and Poster sessions,
- Admission to the Opening ceremony and welcome drink
- Free public transportation ticket for the duration of the Congress
- Refreshment during the Congress

**The registration fee for Accompanying Person includes:**

- Opening Ceremony & Welcome Cocktail
- Free public transportation ticket for the duration of the Congress
- Half-day tour of Prague

**What is not covered by the fee?**

- Congress Dinner – 90 EUR per delegate and 60 EUR per student

**Registration hours**

<b>Sunday, August 14, 2022</b>	15:00–18:00
<b>Monday, August 15, 2022</b>	08:00–19:00
<b>Tuesday, August 16, 2022</b>	08:00–17:30
<b>Wednesday, August 17, 2022</b>	08:00–13:00
<b>Thursday, August 18, 2022</b>	08:00–19:00
<b>Friday, August 19, 2022</b>	08:00–16:30

Participants will receive the name badge upon registration. Each participant is kindly requested to wear the name badge when attending the congress. In case of any unpaid balance, we would like to ask you to pay in advance in order to avoid queues at the Registration Desk. In case you prefer to pay on-site, we kindly ask you to make a payment with a credit / debit card.

## Instruction for Speakers

Please follow the instructions on our website [here](#).

Please come to the SPEAKER'S READY ROOM (Meeting room 2.1) at least 1 hour before the start of your session. In this room, the technical support will upload your presentation to the system, test the presentation and check that it displays correctly. Please note that due to technical reasons, uploading your presentation directly in the hall during the break before your session is not possible.

### Opening hours of the SPEAKER'S READY ROOM (Meeting room 2.1)

<b>Sunday, August 14, 2022</b>	15:00–18:00
<b>Monday, August 15, 2022</b>	08:00–19:00
<b>Tuesday, August 16, 2022</b>	08:00–17:30
<b>Wednesday, August 17, 2022</b>	08:00–13:00
<b>Thursday, August 18, 2022</b>	08:00–19:00
<b>Friday, August 19, 2022</b>	08:00–16:30

## Instruction for Posters

The Poster Section is located at the end of the Exhibition Area on the 2<sup>nd</sup> floor.

<b>Poster Session 1</b>	<b>Monday, August 15, 2022</b>	18:00–19:30
<b>Poster Session 2</b>	<b>Thursday, August 18, 2022</b>	18:00–19:30

Beer, soft drinks and light refreshments will be served during both Poster Sessions.

The number of your poster can be found in the List of Posters .

Posters assigned **odd Poster board numbers** will be presented on Monday, August 15 from 18:00–19:30.

Posters assigned **even Poster board numbers** will be presented on Thursday, August 18 from 18:00–19:30.

Authors are expected to be available at their posters for the whole duration of the poster session to discuss their results and answer questions. There will be no moderated discussions over the posters.

**Detailed instructions for poster presenters can be found [here](#).**

# Programme Overview

Sunday, August 14, 2022								
16:00–19:30	Registration (RECEPTION)							
18:00–20:00	Welcome Cocktail (CATERING AREA, 3 <sup>RD</sup> FLOOR)							
Monday, August 15, 2022								
08:50–09:00	Opening speech, organizational guidelines							
09:00–09:45	Plenary talk: Kathleen Donohue - How environments of ancestors affect traits in the present (CONGRESS HALL)							
	PANORAMA HALL	SOUTH HALL 1A	SOUTH HALL 1B	NORTH HALL	TERRACE 2A	TERRACE 2B	SOUTH HALL 2A	SOUTH HALL 2B
10:00–11:00	S11. Adaptation and evolution across environmental gradients	S37. Microbiomes in the wild: the drivers and evolutionary consequences of microbiome variation	S22. Phenotypic plasticity's importance in evolution: Same old dog or new tricks?	S09. Parallel and repeated evolution in adaptive radiation	S35. The art of microscopic war: interference competition in microbes	S32. Inferring macroevolutionary patterns from micro-evolutionary processes: methods and practices	S03. Diversity and evolution in sperm, ova, and other primary reproductive traits	S13. Evolutionary ecology of chemically-mediated species interactions in plants
11:00–11:30	Coffee break							
11:30–12:30 (13:00)	S11. Adaptation and evolution across environmental gradients	S37. Microbiomes in the wild: the drivers and evolutionary consequences of microbiome variation	S22. Phenotypic plasticity's importance in evolution: Same old dog or new tricks?	S09. Parallel and repeated evolution in adaptive radiation	S06. Revisiting chromosomal speciation in the genomic era	S32. Inferring macroevolutionary patterns from micro-evolutionary processes: methods and practices	S03. Diversity and evolution in sperm, ova, and other primary reproductive traits	S13. Evolutionary ecology of chemically-mediated species interactions in plants
12:30–14:00	Lunch break 12:45–13:45 EvoKE (Evolutionary Knowledge for Everyone) networking meeting I (TERRACE 2A)							
14:00–15:30	S11. Adaptation and evolution across environmental gradients	S37. Microbiomes in the wild: the drivers and evolutionary consequences of microbiome variation	S22. Phenotypic plasticity's importance in evolution: Same old dog or new tricks?	S09. Parallel and repeated evolution in adaptive radiation	S30. Characterizing genomic landscapes of recombination and their evolution	S40. Open symposium	S03. Diversity and evolution in sperm, ova, and other primary reproductive traits	S14. Ecological drivers and evolutionary consequences of within-population colour variation
15:30–16:00	Coffee break							
16:00–17:30	S11. Adaptation and evolution across environmental gradients	S37. Microbiomes in the wild: the drivers and evolutionary consequences of microbiome variation	S22. Phenotypic plasticity's importance in evolution: Same old dog or new tricks?	S09. Parallel and repeated evolution in adaptive radiation	S30. Characterizing genomic landscapes of recombination and their evolution	S40. Open symposium	S03. Diversity and evolution in sperm, ova, and other primary reproductive traits	S14. Ecological drivers and evolutionary consequences of within-population colour variation
18:00–19:30	Poster session 1 / Beer and chips (CONGRESS HALL FOYER)							
Tuesday, August 16, 2022								
09:00–09:45	Plenary talk: Hanna Kokko - Diversity and unity in nature, diversity and unity in approaches to study it? (CONGRESS HALL)							
	PANORAMA HALL	SOUTH HALL 1A	SOUTH HALL 1B	NORTH HALL	TERRACE 2A	TERRACE 2B	SOUTH HALL 2A	SOUTH HALL 2B
10:00–11:00	S11. Adaptation and evolution across environmental gradients	S29. Comparative genomics: a powerful tool for exploring broad evolutionary questions	S27. Tandem repeats: their role in molecular evolution and methods	S08. Integrative biogeography: Past, present, future	S26. The biological meaning of SNPs	S12. Resurrection ecology as a tool for the study of rapid evolution	S05. A combinatorial view on rapid speciation - the role of ancient genetic variants and hybridisation	S04. The evolutionary ecology of mating systems
11:00–11:30	Coffee break							
11:30–12:30 (12:45)	S11. Adaptation and evolution across environmental gradients	S29. Comparative genomics: a powerful tool for exploring broad evolutionary questions	S39. Mechanisms of host-symbiont coevolution: from genotype to phenotype	S08. Integrative biogeography: Past, present, future	S07. Chromosome rearrangements in evolution	S20. Unravelling the interplay between plasticity and evolution during rapid global change	S05. A combinatorial view on rapid speciation - the role of ancient genetic variants and hybridisation	S04. The evolutionary ecology of mating systems
12:30–14:00	Lunch break 12:45–13:45 EvoKE (Evolutionary Knowledge for Everyone) networking meeting II (TERRACE 2B)							
14:00–15:30	S11. Adaptation and evolution across environmental gradients	S29. Comparative genomics: a powerful tool for exploring broad evolutionary questions	S39. Mechanisms of host-symbiont coevolution: from genotype to phenotype	S08. Integrative biogeography: Past, present, future	S07. Chromosome rearrangements in evolution	S20. Unravelling the interplay between plasticity and evolution during rapid global change	S05. A combinatorial view on rapid speciation - the role of ancient genetic variants and hybridisation	S04. The evolutionary ecology of mating systems
15:30–16:00	Coffee break							
16:00–17:30	S11. Adaptation and evolution across environmental gradients	S29. Comparative genomics: a powerful tool for exploring broad evolutionary questions	S39. Mechanisms of host-symbiont coevolution: from genotype to phenotype	S08. Integrative biogeography: Past, present, future	S07. Chromosome rearrangements in evolution	S20. Unravelling the interplay between plasticity and evolution during rapid global change	S05. A combinatorial view on rapid speciation - the role of ancient genetic variants and hybridisation	S04. The evolutionary ecology of mating systems
from 18:30	Evening networking 18:30 Meeting of national evolutionary societies (Faculty of Science, Charles University, Viničná 7) 18:30–20:00 Netherlands Evolutionary Biology Get-Together (pub 'U Šumavy', Štěpánská 3)							

Wednesday, August 17, 2022

09:00–09:45 Plenary talk: Kayla King - Virulence, biodiversity, and host-parasite coevolution (CONGRESS HALL)								
	PANORAMA HALL	SOUTH HALL 1A	SOUTH HALL 1B	NORTH HALL	TERRACE 2A	TERRACE 2B	SOUTH HALL 2A	SOUTH HALL 2B
10:00–11:30	S40. Open symposium	S19. Eco-evolutionary dynamics and feedbacks in invasive species	S23. The evolution and consequences of non-mendelian inheritance	S01. Tug of war between the sexes: The transcriptomic architecture of sex-linked traits	S16. Predator cognition and the evolution of prey defence strategies	S15. Rapid evolution of color patterns	S17. Brain, behaviour and cognitive evolution	S33. Domestication: Fresh insights from ancient genomics
11:30–12:00 Coffee break								
12:00–13:00 (13:15)	S40. Open symposium	S19. Eco-evolutionary dynamics and feedbacks in invasive species	S23. The evolution and consequences of non-mendelian inheritance	S01. Tug of war between the sexes: The transcriptomic architecture of sex-linked traits	S16. Predator cognition and the evolution of prey defence strategies	S15. Rapid evolution of color patterns	S17. Brain, behaviour and cognitive evolution	S33. Domestication: Fresh insights from ancient genomics
13:15–14:15 Lunch, followed by free afternoon / Student career development meeting (TERRACE 2B)								
15:00–16:30 Tandem Repeat Satellite Symposium (Faculty of Science, Charles University, Viničná 7)								

Thursday, August 18, 2022

09:00–09:45 Plenary talk: Alexei Maklakov - Why do we age? Challenges and emerging theories in the evolution of ageing (CONGRESS HALL)								
	PANORAMA HALL	SOUTH HALL 1A	SOUTH HALL 1B	NORTH HALL	TERRACE 2A	TERRACE 2B	SOUTH HALL 2A	SOUTH HALL 2B
10:00–11:00	S10. Eco-evolutionary dynamics in changing environments: insights from models, experiments and case studies	S38. Molecular evolution and trade-offs in host-pathogen interactions and host immunity	S28. Beyond transcription: the role of post-transcriptional gene regulation in adaptation and evolution	S02. Sex chromosome evolution: the canonical model and so much beyond	S25. The positives and negatives of whole genome duplication: synthesizing polyploid evolution across organisms and disciplines	S23. The evolution and consequences of non-mendelian inheritance	S18. The evolution of behavioural adaptations: Genes, neurons and ecology	S31. Limits to adaptation: linking evolution, ecology, and genetics
11:00–11:30 Coffee break								
11:30–12:30	S10. Eco-evolutionary dynamics in changing environments: insights from models, experiments and case studies	S38. Molecular evolution and trade-offs in host-pathogen interactions and host immunity	S40. Open symposium	S02. Sex chromosome evolution: the canonical model and so much beyond	S40. Open symposium	S23. The evolution and consequences of non-mendelian inheritance	S18. The evolution of behavioural adaptations: Genes, neurons and ecology	S31. Limits to adaptation: linking evolution, ecology, and genetics
12:30–14:00 Lunch break 12:45–13:45 Students meet editors (TERRACE 2A)								
14:00–15:30	S10. Eco-evolutionary dynamics in changing environments: insights from models, experiments and case studies	S38. Molecular evolution and trade-offs in host-pathogen interactions and host immunity	S34. How have biomarkers improved our understanding of health and the evolution of senescence?	S02. Sex chromosome evolution: the canonical model and so much beyond	S08. Integrative biogeography: Past, present, future	S24. Progress and prospects in adaptation genomics	S18. The evolution of behavioural adaptations: Genes, neurons and ecology	S31. Limits to adaptation: linking evolution, ecology, and genetics
15:30–16:00 Coffee break								
16:00–17:30	S10. Eco-evolutionary dynamics in changing environments: insights from models, experiments and case studies	S38. Molecular evolution and trade-offs in host-pathogen interactions and host immunity	S34. How have biomarkers improved our understanding of health and the evolution of senescence?	S02. Sex chromosome evolution: the canonical model and so much beyond	S08. Integrative biogeography: Past, present, future	S24. Progress and prospects in adaptation genomics	S18. The evolution of behavioural adaptations: Genes, neurons and ecology	S31. Limits to adaptation: linking evolution, ecology, and genetics
17:30–17:45 Promoting scientific literacy in evolution through citizen science practices in high schools (TERRACE 2B)								
18:00–19:30 Poster session 2 / Beer and chips (CONGRESS HALL FOYER)								

Friday, August 19, 2022

	PANORAMA HALL	SOUTH HALL 1A	SOUTH HALL 1B	NORTH HALL	TERRACE 2A	TERRACE 2B	SOUTH HALL 2A	SOUTH HALL 2B
09:00–10:30	S10. Eco-evolutionary dynamics in changing environments: insights from models, experiments and case studies	S38. Molecular evolution and trade-offs in host-pathogen interactions and host immunity	S40. Open symposium	S40. Open symposium	S25. The positives and negatives of whole genome duplication: synthesizing polyploid evolution across organisms and disciplines	S36. Evolution of antibiotic resistance: from lab to clinic	S21. Epigenetics goes wild! Epigenetic diversity and the evolutionary potential of wild populations	S24. Progress and prospects in adaptation genomics
10:30–11:00 Coffee break								
11:00–12:30 (12:45)	S10. Eco-evolutionary dynamics in changing environments: insights from models, experiments and case studies	S38. Molecular evolution and trade-offs in host-pathogen interactions and host immunity	S40. Open symposium	S40. Open symposium + presentations of Stearns Prize winners for the best paper published in <i>Journal of Evolutionary Biology</i>	S25. The positives and negatives of whole genome duplication: synthesizing polyploid evolution across organisms and disciplines	S36. Evolution of antibiotic resistance: from lab to clinic	S21. Epigenetics goes wild! Epigenetic diversity and the evolutionary potential of wild populations	S24. Progress and prospects in adaptation genomics
12:30–13:45 Lunch break 12:45–13:45 Scientist Rebellion introduction and networking meeting (TERRACE 2A)								
CONGRESS HALL								
13:45–14:40 ESEB Membership Meeting								
14:40–14:45 Break								
14:45–15:20 Presidential address (Astrid Groot)								
15:25–16:00 Distinguished Fellow talk (Roger Butlin)								
16:00–16:10 Coffee break								
16:10–17:10 Talks by John Maynard Smith Prize winners (Camilo Barbosa, Stefany Moreno Gamez, Catalina Chaparro-Predraza)								
17:10–17:30 Closing ceremony								
19:00–23:30 Congress dinner (restaurant Občanská plovárna)								

# Detailed Programme

Sunday

**Sunday, August 14, 2022**

**18:00–20:00**

**Congress Hall Foyer**

Welcome Cocktail

Monday

**Monday, August 15, 2022**

**08:50–09:00**

**Congress Hall**

Opening speech, organizational guidelines

**09:00–09:45**

**Congress Hall**

Plenary talk 1: Kathleen Donohue—How environments of ancestors affect traits in the present

**09:45–10:00**

Break

**10:00–11:00**

**Panorama Hall**

**S11. part 1/8 | Adaptation and evolution across environmental gradients**

10:00–10:30 **Thermal performance, plasticity, and adaptive potential across environmental gradients**

ID: 1933

Invited speaker

*Marjo Saastamoinen*

10:30–10:45 **Change from early to adult environment affects aphid transcriptome, fitness and endosymbiont density**

ID: 1068

*Hawa Jahan*

10:45–11:00 **Genome-wide detection of selection and local adaptation in *Temnothorax longispinosus* to its parasite**

ID: 1130

*Maide Nesibe Macit*

**10:00–11:00**

**South Hall 1A**

**S37. part 1/4 | Microbiomes in the wild: the drivers and evolutionary consequences of microbiome variation**

10:00–10:30 **The holobiont as an ecosystem: the host perspective**

ID: 1395

Invited speaker

*Lucia Pita*

10:30–10:45 **Gut microbiota of wild rodents from islands: testing the island biogeography theory**

ID: 2034

*Ilze Brila*

10:45–11:00 **Threespine stickleback gut microbiota divergence associated with repeated shifts in trophic ecology**

ID: 1298

*Andreas Härer*

**10:00–11:00**

**South Hall 1B**

**S22. part 1/4 | Phenotypic plasticity's importance in evolution: Same old dog or new tricks?**

10:00–10:30 **How does plasticity influence eco-evolutionary dynamics? Insights from theory-experiment encounters.**

ID: 1064

Invited speaker

*Luis-Miguel Chevin*

10:30–10:45 **Anticipatory effects in the filamentous fungi *Neurospora crassa***

ID: 1071

*Mariana Villalba de la Peña*

10:45–11:00 **The role of *Tribolium castaneum*'s phenotypic plasticity for the rapid evolution of resistance**

ID: 2004

*Ana Sofia Lindeza*

**10:00–11:00**

**North Hall**

**S09. part 1/4 | Parallel and repeated evolution in adaptive radiation**

10:00–10:30 ID: 1125	<b>The role of gene exchange in parallel rapid adaptive radiations</b> <i>Invited speaker</i>	<i>Joana Meier</i>
10:30–10:45 ID: 1091	<b>Convergent evolution of seasonal plasticity in a radiation of African <i>Bicyclus</i> butterflies</b>	<i>Vicencio Oostra</i>
10:45–11:00 ID: 1251	<b>The genomics of a great speciator provides insights into adaptations to island life</b>	<i>Andrea Estandía</i>

**10:00–11:00**

**Terrace 2A**

**S35. part 1/1 | The art of microscopic war: interference competition in microbes**

10:00–10:15 ID: 1659	<b>Antagonism among the abundant Bacteroidales of the human gut microbiota</b> <i>Invited speaker</i>	<i>Laurie Comstock</i>
10:15–10:30 ID: 1709	<b>The role of antibiotics in <i>Streptomyces</i> interference competition</b> <i>Invited speaker</i>	<i>Daniel Rozen</i>
10:30–10:45 ID: 1599	<b>Directed evolution of resistance to a bacterial Type VI Secretion System</b>	<i>Kathryn MacGillivray</i>
10:45–11:00 ID: 1156	<b>The ecology of strain replacement in bacterial communities</b>	<i>Erik Bakkeren</i>

**10:00–11:00**

**Terrace 2B**

**S32. part 1/2 | Inferring macroevolutionary patterns from microevolutionary processes: methods and practices**

10:00–10:30 ID: 1194	<b>Rates of evolution: Interpretation, measurement and microevolutionary models</b> <i>Invited speaker</i>	<i>Thomas Fredrik Hansen</i>
10:30–11:00 ID: 1737	<b>Detecting macroevolutionary signatures of the Bogert effect</b> <i>Invited speaker</i>	<i>Martha Muñoz</i>

**10:00–11:00**

**South Hall 2A**

**S03. part 1/4 | Diversity and evolution in sperm, ova, and other primary reproductive traits**

10:00–10:30 ID: 1970	<b>The scope for sexual selection during pollen-pistil interactions</b> <i>Invited speaker</i>	<i>Jeanne Tonnabel</i>
10:30–10:45 ID: 1421	<b>Bateman gradients from first principles</b>	<i>Jussi Lehtonen</i>
10:45–11:00 ID: 1445	<b>Hermaphroditic origins of anisogamy</b>	<i>Jonathan Henshaw</i>

**10:00–11:00**

**South Hall 2B**

**S13. part 1/2 | Evolutionary ecology of chemically-mediated species interactions in plants**

10:00–10:30 ID: 1254	<b>Adapting to increasing herbivory under climate change: the role of intraspecific trait variation</b> <i>Invited speaker</i>	<i>James Buckley</i>
10:30–10:45 ID: 1279	<b>Effects of intraspecific plant chemodiversity on the attraction and occurrence of aphids</b>	<i>Dominik Ziaja</i>
10:45–11:00 ID: 1222	<b>Real-time adaptation to evolutionary novel toxins in an insect herbivore</b>	<i>Erik van Bergen</i>

**11:00–11:30**

**Coffee break**

**11:30–12:30**

**South Hall 1B**

**S22. part 2/4 | Phenotypic plasticity's importance in evolution: Same old dog or new tricks?**

11:30–11:45	<b>De novo evolution of multicellularity via the canalisation of phenotypically plastic cell clumping</b>	<i>Yashraj Chavhan</i>
ID: 1985		
11:45–12:00	<b>Phenotypic plasticity enables the colonization of extreme cave environments</b>	<i>Helena Bilandzija</i>
ID: 2208		
12:00–12:15	<b>Hidden genetic variation in plasticity increases adaptive potential in novel environments in <i>Senecio</i></b>	<i>Jon Bridle</i>
ID: 1470		
12:15–12:30	<b>The role of gene expression plasticity in population response to environmental stressors</b>	<i>Brenna Stanford</i>
ID: 1679		

**11:30–12:30**

**Terrace 2A**

**S06. part 1/1 | Revisiting chromosomal speciation in the genomic era**

11:30–11:45	<b>Holocentric chromosomal evolution and diversification patterns: from macro to microevolution</b>	<i>Marcial Escudero</i>
ID: 1163	<b>Invited speaker</b>	
11:45–12:00	<b>Chromosomal speciation: Lessons learned from karyotype evolution in Lepidoptera</b>	<i>Petr Nguyen</i>
ID: 2217	<b>Invited speaker</b>	
12:00–12:15	<b>The evolution of Merian Elements in Lepidoptera</b>	<i>Charlotte Wright</i>
ID: 1240		
12:15–12:30	<b>Multiple chromosomal inversions associated with strong reproductive isolation between ecotypes</b>	<i>Alan Le Moan</i>
ID: 1423		

**11:30–12:30**

**South Hall 2B**

**S13. part 2/2 | Evolutionary ecology of chemically-mediated species interactions in plants**

11:30–11:45	<b>Pollinator shifts and the evolution of specialized floral scent rewards</b>	<i>Laura Hildesheim</i>
ID: 1371		
11:45–12:00	<b>Mechanisms of trade-offs between defense and life history strategy in monkeyflowers</b>	<i>Liza Holeski</i>
ID: 1741		
12:00–12:15	<b>Genetic architecture of leaf specialized metabolites in sessile oak (<i>Quercus petraea</i>)</b>	<i>Domitille Coq-Etcheagaray</i>
ID: 1761		
12:15–12:30	<b>The key to a good relationship: inter-kingdom communication in a fungus-ant nutritional symbiosis</b>	<i>Benjamin Conlon</i>
ID: 1015		

**11:30–12:45**

**Panorama Hall**

**S11. part 2/8 | Adaptation and evolution across environmental gradients**

11:30–11:45	<b>A population genomic approach of bumble bee responses to urban ecosystems</b>	<i>Panagiotis Theodorou</i>
ID: 1284		
11:45–12:00	<b>How insect chemical profiles unify signaling &amp; adaptation: Evolutionary conservation of a dual trait</b>	<i>Jan Buellesbach</i>
ID: 1292		
12:00–12:15	<b><i>Heliconius</i> butterflies: colour, altitude, and thermal tolerance</b>	<i>Tien Nguyen</i>
ID: 1447		
12:15–12:30	<b>Cross-seasonal trade-offs in two closely related butterflies</b>	<i>Loke von Schmalensee</i>
ID: 1457		
12:30–12:45	<b>Identifying candidate genes for adaptation to a light gradient in a group of Malawi cichlids</b>	<i>Julia Camacho</i>
ID: 2353		

**11:30–12:45**

**South Hall 1A**

**S37. part 2/4 | Microbiomes in the wild: the drivers and evolutionary consequences of microbiome variation**

11:30–11:45 ID: 1247	<b>Alterations to the gut microbiota of a wild juvenile passerine in an urban mosaic</b>	<i>Öncü Maraci</i>
11:45–12:00 ID: 1117	<b>Are house mouse genetics affecting the microbiome and antimicrobial resistance in the hybrid zone?</b>	<i>Víctor Hugo Jarquín-Díaz</i>
12:00–12:15 ID: 1719	<b>Dynamics and metagenomics of oral disease in Scandinavian brown bears (<i>Ursus arctos</i>)</b>	<i>Adrian Forsythe</i>
12:15–12:30 ID: 1895	<b>Changes in fish skin microbiota along an eutrophication gradient: a field and transplant approach</b>	<i>Jessica Côte</i>
12:30–12:45 ID: 2255	<b>Exploring the microbial communities associated with the common garden snail</b>	<i>Andrew Matthews</i>

**11:30–12:45**

**North Hall**

**S09. part 2/4 | Parallel and repeated evolution in adaptive radiation**

11:30–12:00 ID: 1637	<b>The origins and maintenance of polymorphisms across species radiations</b>	<i>Gabriel Jamie</i>
12:00–12:15 ID: 1278	<b>Physiological adaptation genes, not morphology, open a new perspective on adaptive radiations</b>	<i>Sebastian Kirchhof</i>
12:15–12:30 ID: 1370	<b>Different ecomorphs affect the species response to ecological release in island red devil spiders</b>	<i>Adrià Bellvert</i>
12:30–12:45 ID: 2231	<b>Shared genomic targets of selection in repeated adaptive divergences of sympatric salmonid ecotypes</b>	<i>Arne Jacobs</i>

**11:30–12:45**

**South Hall 2A**

**S03. part 2/4 | Diversity and evolution in sperm, ova, and other primary reproductive traits**

11:30–11:45 ID: 2074	<b>The effect of male age on sperm traits in a sexually promiscuous passerine</b>	<i>Kristýna Míčková</i>
11:45–12:00 ID: 1037	<b>Evolution of novel female reproductive strategy in protein-restricted populations of <i>D. melanogaster</i></b>	<i>Purbasha Dasgupta Bodhisatta Nandy</i>
12:00–12:15 ID: 1166	<b>Evolution of age dependent female care of male gametes</b>	<i>Julian Baur</i>
12:15–12:30 ID: 1110	<b>Synergistic impacts of hot exposure events on male and female fertility in a model insect</b>	<i>Benjamin Cole</i>
12:30–12:45 ID: 2166	<b>Uncovering new roles for auxin in the evolution of seed plants</b>	<i>Ana Marcela Florez-Rueda</i>

**11:30–13:00**

**Terrace 2B**

**S32. part 2/2 | Inferring macroevolutionary patterns from microevolutionary processes: methods and practices**

11:30–11:45 ID: 1266	<b>Bridging the gap between population genomic and phylogenetic approaches</b>	<i>Mérodie Bastian</i>
11:45–12:00 ID: 1351	<b>What controls rates of diversification and diversity across the tree of Life?</b>	<i>Louie Rombaut</i>
12:00–12:15 ID: 1816	<b>High investment into reproduction is associated with reduced lifespan in dogs</b>	<i>Alejandro Gonzalez Voyer</i>
12:15–12:30 ID: 2410	<b>Beyond the Mk model for studying discrete character evolution on trees</b>	<i>Liam Revell</i>
12:30–12:45 ID: 1253	<b>The rock record turns trait evolution into apparent stasis and punctuated equilibrium</b>	<i>Niklas Hohmann</i>
12:45–13:00 ID: 1717	<b>The asymmetric brownian motion</b>	<i>Théo Gaboriau</i>

**12:30–14:00**

**Lunch break**

**12:45–13:45**

**Terrace 2A**

**EvoKE (Evolutionary Knowledge for Everyone) networking meeting I**

**14:00–15:30**

**Panorama Hall**

**S11. part 3/8 | Adaptation and evolution across environmental gradients**

14:00–14:15 ID: 1626	<b>Climatic gradients shape macroevolutionary patterns of chemical signal diversity across <i>Drosophila</i></b>	<i>Rowan French</i>
14:15–14:30 ID: 1962	<b>Thermoregulation, transparency and altitude in clearwing butterflies</b>	<i>Violaine Ossola</i>
14:30–14:45 ID: 1977	<b>Seasonally varying selection drives supergene-based adaptation in overwintering <i>Drosophila</i></b>	<i>Alan Bergland</i>
14:45–15:00 ID: 2013	<b>Sensory adaptation and perceptual thresholds across an ecological gradient in <i>Heliconius</i> butterflies</b>	<i>Shane Wright</i>
15:00–15:15 ID: 2085	<b>Hybridization in closely related wood ants with different climatic adaptations</b>	<i>Ina Satokangas</i>
15:15–15:30 ID: 2379	<b>Multispecies comparative analysis of phenology variation along altitudinal gradients in butterflies</b>	<i>Mathieu Joron</i>

**14:00–15:30**

**South Hall 1A**

**S37. part 3/4 | Microbiomes in the wild: the drivers and evolutionary consequences of microbiome variation**

14:00–14:30 ID: 1971	<b>Disentangling cause and effect in wild microbiome studies</b> <i>Invited speaker</i>	<i>Xavier Harrison</i>
14:30–14:45 ID: 1861	<b>Vertical transmission of maternal gut microbiota in wild mice</b>	<i>Klara M Wanelik</i>
14:45–15:00 ID: 2130	<b>Microbiome underlying winter adaptations in wild populations of great tits (<i>Parus major</i>)</b>	<i>Charli Davies</i>
15:00–15:15 ID: 1633	<b>Is natural selection driving antimicrobial properties of animal bacterial symbionts?</b>	<i>Ester Martínez-Renau</i>
15:15–15:30 ID: 1050	<b>Long-read metagenomics highlights dietary adaptations in the gut microbiome of ant-eating mammals</b>	<i>Sophie Teullet</i>

**14:00–15:30**

**South Hall 1B**

**S22. part 3/4 | Phenotypic plasticity's importance in evolution: Same old dog or new tricks?**

14:00–14:30 ID: 2453	<b>A mechanistic approach to understanding plasticity; a sperm competition example</b> <i>Invited speaker</i>	<i>Amanda Bretman</i>
14:30–14:45 ID: 1492	<b>Not just fitness traits: Changing environments may favor the plasticity of recombination</b>	<i>Sviatoslav Rybnikov</i>
14:45–15:00 ID: 1726	<b>'Developmental lines of least resistance' shape the relationship between plasticity and evolution</b>	<i>Patrick Rohner</i>
15:00–15:15 ID: 1927	<b>Environmentally-induced variation in lifespan is regulated by cryptic genetic variation in <i>Drosophila</i></b>	<i>Luisa Pallares</i>
15:15–15:30 ID: 2097	<b>Parallelism and plasticity during adaptation to industrial era mining contamination</b>	<i>Alexander Papadopoulos</i>

**14:00–15:30**

**North Hall**

**S09. part 3/4 | Parallel and repeated evolution in adaptive radiation**

14:00–14:30 ID: 2347	<b>Genomic and transcriptomic basis underlying parallel origins of live birth</b> <i>Invited speaker</i>	<i>Sean Stankowski</i>
14:30–14:45 ID: 1488	<b>Genomes reveal age and demographic consequence of fast adaptive radiation</b>	<i>David A. Marques</i>
14:45–15:00 ID: 1872	<b>Parallel adaptation within wild populations is a source of morphological and genetic diversity</b>	<i>Jack Rayner</i>
15:00–15:15 ID: 1890	<b>Rapid parallel adaptation despite gene flow in silent crickets</b>	<i>Nathan Bailey</i>
15:15–15:30 ID: 1951	<b>The role of sexual selection in shaping adaptive radiations</b>	<i>Jana Riederer</i>

**14:00–15:30**

**Terrace 2A**

**S30. part 1/2 | Characterizing genomic landscapes of recombination and their evolution**

14:00–14:30 ID: 2470	<b>Recombination and its evolution, in vertebrates and beyond</b> <i>Invited speaker</i>	<i>Simon Myers</i>
14:30–14:45 ID: 1587	<b>Historical recombination rate variation in a migratory songbird, the European blackcap</b>	<i>Karen Bascón-Cardozo</i>
14:45–15:00 ID: 2063	<b>Estimating the rates of crossover and gene conversion from individual genomes</b>	<i>Derek Setter</i>
15:00–15:15 ID: 1718	<b>Diversity and determinants of recombination landscapes in flowering plants</b>	<i>Sylvain Glémin</i>
15:15–15:30 ID: 1533	<b>Recombination landscape divergence between domesticated and wild populations of rye</b>	<i>Steven Dreissig</i>

**14:00–15:30**

**Terrace 2B**

**S40. part 01/10 | Open symposium**

14:00–14:15 ID: 1168	<b>Endoparasitoidism promotes viral domestication</b>	<i>Benjamin Guinet</i>
14:15–14:30 ID: 1169	<b>Tumors alter life-history traits in the freshwater cnidarian <i>Hydra oligactis</i></b>	<i>Boutry Justine</i>
14:30–14:45 ID: 1177	<b>Endogenous viral elements in shrew genomes provide insights into Flaviviridae ancient history</b>	<i>Sebastian Lequime</i>
14:45–15:00 ID: 1411	<b>Protection of vulnerable colony members against nematode attack by social immunity in ants</b>	<i>Florian Strahodinsky</i>
15:00–15:15 ID: 1459	<b>Beyond the next variant: evolutionary interactions between host and hantavirus speciation</b>	<i>Gerald Heckel</i>
15:15–15:30 ID: 1949	<b>Large-scale turnover of immune receptor gene copies in zebrafish</b>	<i>Yannick Schäfer</i>

**14:00–15:30**

**South Hall 2A**

**S03. part 3/4 | Diversity and evolution in sperm, ova, and other primary reproductive traits**

14:00–14:30 ID: 2213	<b>Evolution of gonads, gametes and genital tracts</b> <i>Invited speaker</i>	<i>Stefan Lüpold</i>
14:30–14:45 ID: 1067	<b>Runaway selection in plants: myth or reality?</b>	<i>Clément Lafon Placette</i>
14:45–15:00 ID: 1780	<b>From ejaculates to behaviour: how pre and post-copulatory sexual selection shape reproductive traits</b>	<i>Cristina Tuni</i>
15:00–15:15 ID: 2360	<b>The genetics of variation in sperm and female sperm storage organ morphology in <i>Drosophila</i></b>	<i>Zeeshan Syed</i>
15:15–15:30 ID: 1100	<b>Exploring winner-loser effects on plastic male reproductive investment and telomere dynamics</b>	<i>Lauren Harrison</i>

**14:00–15:30**

**South Hall 2B**

**S14. part 1/2 | Ecological drivers and evolutionary consequences of within-population colour variation**

14:00–14:30 ID: 1768	<b>From genes to pattern formation: explaining a color pattern polymorphism in a reptile</b> <i>Invited speaker</i>	<i>Nathalie Feiner</i>
14:30–14:45 ID: 2029	<b>A complex colour polymorphism is associated with a single gene in male wood tiger moths</b>	<i>Melanie Brien</i>
14:45–15:00 ID: 2332	<b>Molecular basis of continuous flower colour variation in <i>Oncoclylus</i> Irises</b>	<i>Esther Senden</i>
15:00–15:15 ID: 1333	<b>Wing-spot and good-gene hypothesis: it's not that simple</b>	<i>Divita Garg</i>
15:15–15:30 ID: 1212	<b>How frogs get their stripe: evolution of a widespread color pattern polymorphism</b>	<i>Sandra Goutte</i>

**15:30–16:00**

**Coffee break**

**16:00–17:30**

**Panorama Hall**

**S11. part 4/8 | Adaptation and evolution across environmental gradients**

16:00–16:15 ID: 2393	<b>Going deeper: molecular adaptation to hypoxia in African crater lake cichlids</b>	<i>Dmytro Omelchenko</i>
16:15–16:30 ID: 1886	<b>Adaptating to oncogenic pollution in two flatfish species: why (and how) can one but not another?</b>	<i>Tuul Sepp</i>
16:30–16:45 ID: 1804	<b>Genome-environment associations in herring and horse mackerel: implications for climate change</b>	<i>Angela P. Fuentes Pardo</i>
16:45–17:00 ID: 1553	<b>The European native oyster's (<i>Ostrea edulis</i>) current genetic structuring</b>	<i>Homère J. Alves Monteiro</i>
17:00–17:15 ID: 1035	<b>Do fisheries influence adaptation to climate change?</b>	<i>Daniel Sadler</i>
17:15–17:30 ID: 1028	<b>Genomic divergence across southern African marine thermal gradients</b>	<i>Peter Teske</i>

**16:00–17:30**

**South Hall 1A**

**S37. part 4/4 | Microbiomes in the wild: the drivers and evolutionary consequences of microbiome variation**

16:00–16:15 ID: 1410	<b>Examining the relationship between the gut microbiota, MHC, and TB resistance in wild meerkats</b>	<i>Alice Risely</i>
16:15–16:30 ID: 2190	<b>Host-microbiome interactions within an eco-evo perspective: <i>Daphnia</i> and its microbiome as a model.</b>	<i>Ellen Decaestecker</i>
16:30–16:45 ID: 1213	<b>Immunogenetic variation shapes the gut microbiome in a natural vertebrate population</b>	<i>David Richardson</i>
16:45–17:00 ID: 1786	<b>Early life environment has a lasting effect on the gut microbiota of a wild rodent</b>	<i>Tiffany Scholier</i>
17:00–17:15 ID: 1384	<b>Virus-host interaction dynamics in the gut microbiome through the analysis of CRISPR arrays</b>	<i>Adrián López-Beltrán</i>
17:15–17:30 ID: 2367	<b>Spatiotemporal patterns of microbial communities in recirculating aquaculture systems</b>	<i>Adamantia Kapopoulou</i>

**16:00–17:30**

**South Hall 1B**

**S22. part 4/4 | Phenotypic plasticity's importance in evolution: Same old dog or new tricks?**

16:00–16:15 ID: 1980	<b>Life histories as mosaics: life-history traits differ in levels of plastic and genetic control</b>	<i>Anja Felmy</i>
16:15–16:30 ID: 1392	<b>Density-dependent dispersal promotes female-biased sex allocation in viscous populations</b>	<i>Chedhawat Chokechaipaisarn</i>
16:30–16:45 ID: 2101	<b>Natural selection makes phenotypic plasticity adaptive but constrained by phenotypic integration</b>	<i>Mohamed Abdelaziz</i>
16:45–17:00 ID: 2174	<b>The primary role of phenotypic plasticity in the face of accelerated environmental change</b>	<i>Sofia Belardinelli</i>
17:00–17:30 ID: 2484	<b>General discussion</b>	

**16:00–17:30**

**North Hall**

**S09. part 4/4 | Parallel and repeated evolution in adaptive radiation**

16:00–16:15 ID: 2161	<b>The genetic bases of adaptive radiation in <i>Ophrys</i> orchids</b>	<i>Alessia Russo</i>
16:15–16:30 ID: 2180	<b>Convergent expression changes during development lead to convergent tooth morphologies in rodents</b>	<i>Timothee Kastylevsky</i>
16:30–16:45 ID: 2219	<b>The genomic basis of similarity in the cichlid fishes of the Lake Victoria Region Superflock</b>	<i>Nathan Vranken</i>
16:45–17:00 ID: 2261	<b>The genomic predictability of morph differentiation in a highly polymorphic Arctic fish</b>	<i>Sarah Salisbury</i>
17:00–17:15 ID: 1785	<b>Early life parallel evolution in the sharpnout seabream over spatial and temporal scales</b>	<i>Marta Bassitta</i>
17:15–17:30 ID: 2376	<b>Can synergistic pleiotropy explain the low parallelism of temperature gene expression evolution?</b>	<i>Dagny A. Runarsdottir</i>

**16:00–17:30**

**Terrace 2A**

**S30. part 2/2 | Characterizing genomic landscapes of recombination and their evolution**

16:00–16:15 ID: 1888	<b>Major shifts in the recombination landscape and their consequences for barriers to gene flow</b> <i>Invited speaker</i>	<i>Simon Martin</i>
16:15–16:30 ID: 2406	<b>Genome structure drives the landscape of introgression from selfing into outcrossing <i>Capsella</i></b>	<i>Tyler Kent</i>
16:30–16:45 ID: 2000	<b>Evolution of genomic landscape of diversification in peatmosses</b>	<i>Olena Meleshko</i>
16:45–17:00 ID: 1176	<b>The impact of recombination rate dynamics on signatures of indirect and direct selection</b>	<i>Madeline Chase</i>
17:00–17:15 ID: 1267	<b>The influence of genetic dosage on PRDM9-dependent evolutionary dynamics of meiotic recombination</b>	<i>Alice Genestier</i>
17:15–17:30 ID: 1851	<b>Reduced selective interference increases experimental adaptive rates in <i>C. elegans</i></b>	<i>Tom Parée</i>

**16:00–17:30**

**Terrace 2B**

**S40. part 02/10 | Open symposium**

16:00–16:15 ID: 1491	<b>Intensity of sexual conflict affects longevity in <i>Drosophila melanogaster</i> subjected to FLX evolution</b>	<i>Katrine Lund-Hansen</i>
16:15–16:30 ID: 1773	<b>Heritability and age-related changes in genetic variation of telomere length in a wild passerine</b>	<i>Heung Ying Janet Chik</i>
16:30–16:45 ID: 2084	<b>Investigating molecular signatures of ageing across two origins of eusociality in bees</b>	<i>Andreia Teixeira</i>
16:45–17:00 ID: 2183	<b>Longitudinal characterization of maternal-age effect on germline mutation rate in the leafcutter ant</b>	<i>Hwei-yen Chen</i>
17:00–17:15 ID: 2378	<b>Runs of homozygosity analyses on reduced genomic data allow correct ranking of inbreeding estimates</b>	<i>Eléonore Lavanchy</i>
17:15–17:30 ID: 2108	<b>Monitoring within-species genetic diversity of amphibians with eDNA metabarcoding</b>	<i>Lucia Zanovello</i>

**16:00–17:30**

**South Hall 2A**

**S03. part 4/4 | Diversity and evolution in sperm, ova, and other primary reproductive traits**

16:00–16:15 ID: 1274	<b>The regulatory architecture and evolution of male avian reproductive traits</b>	<i>Peter Price</i>
16:15–16:30 ID: 1850	<b>Female remating frequencies influence male reproductive trait evolution in dung flies</b>	<i>Nalini Puniamoorthy</i>
16:30–16:45 ID: 1424	<b>High fraction of sperm in a globular springtail estimated from whole genome sequencing data</b>	<i>Kamil Jaron</i>
16:45–17:00 ID: 1978	<b>Role of premeiotic endoreplication in obligate parthenogenesis in geckos</b>	<i>Marie Altmanová</i>
17:00–17:15 ID: 1314	<b>Maternal investment as an adaptive trait in response to harsh environments in the Brassicaceae</b>	<i>Mohammadjavad Haghghatnia</i>
17:15–17:30 ID: 1111	<b>Male alternative reproductive tactics and sperm investment: a meta-analysis</b>	<i>Liam Dougherty</i>

**16:00–17:30**

**South Hall 2B**

**S14. part 2/2 | Ecological drivers and evolutionary consequences of within-population colour variation**

16:00–16:30 ID: 2460	<b>Concealing 3D shape: Camouflage in <i>Cepaea</i> snails</b> <i>Invited speaker</i>	<i>Karin Kjærnsmo</i>
16:30–16:45 ID: 1101	<b>Estimates of selection and dispersal from a flower color hybrid zone of snapdragons</b>	<i>Parvathy Surendranadh</i>
16:45–17:00 ID: 1829	<b>Ecological consequences of colour polymorphism in spiders</b>	<i>Fabian C. Salgado-Roa</i>
17:00–17:15 ID: 1648	<b>Phenomics of sexual conflict: how integrated are colour and shape in a female limited polymorphism?</b>	<i>Moritz Lürig</i>

**17:30–18:00**

**Break**

**18:00–20:00**

**Congress Hall Foyer**

**Poster session 1**

**Tuesday, August 16, 2022**

**09:00–09:45**

**Congress Hall**

**Plenary talk 2: Hanna Kokko–Diversity and unity in nature, diversity and unity in approaches to study it?**

**09:45–10:00**

**Break**

**10:00–11:00**

**Panorama Hall**

**S11. part 5/8 | Adaptation and evolution across environmental gradients**

10:00–10:30 **In Humboldt's footsteps: using gradients to make sense of ecosystem functions** *Kathrin Rousk*  
ID: 1245 **Invited speaker**

10:30–10:45 **The potential for evolutionary rescue in an arctic seashore plant under climate change** *Maria Hällfors*  
ID: 1759

10:45–11:00 **Genetic changes over time and space reveal candidate SNPs for local adaptation in *Laminaria digitata*** *Lauric Reynes*  
ID: 1589

**10:00–11:00**

**South Hall 1A**

**S29. part 1/4 | Comparative genomics: a powerful tool for exploring broad evolutionary questions**

10:00–10:15 **The genetic basis of evolutionary divergence in oceanic island birds: a comparative-genomics approach** *María Recuerda*  
ID: 1697

10:15–10:30 **Loss of a muscle enzyme contributed to the evolution of adaptive metabolic traits in hummingbirds** *Ekaterina Osipova*  
ID: 1744

10:30–10:45 **MI biodiversity of Antarctic and Subantarctic Ecosystems (BASE): genomics and phylogeography** *Juliana Vianna*  
ID: 1611

10:45–11:00 **Flash talks**  
ID: 2483

**10:00–11:00**

**South Hall 1B**

**S27. part 1/1 | Tandem repeats: their role in molecular evolution and methods**

10:00–10:30 **Genome-wide analysis of fitness effects of TR mutations and their relevance to human populations** *Melissa Gymrek*  
ID: 2466 **Invited speaker**

10:30–10:45 **Uncovering the diverse roles of short tandem repeat variation in colorectal cancer** *Max Verbiest*  
ID: 2419

10:45–11:00 **Ancient satellite DNA and rapid turnover across passerine birds** *Inês Borges*  
ID: 2257

**10:00–11:00**

**North Hall**

**S08. part 1/6 | Integrative biogeography: Past, present, future**

10:00–10:30 **Dispersal and diversification events to explain spatial biodiversity patterns** *Leonel Alsina*  
ID: 2482 **Invited speaker**

10:30–10:45 **A new biogeographical model to reconstruct ancestral ranges: the spatially dependent walk model** *Thomas Merrien*  
ID: 2135

10:45–11:00 **Legacy of past geo-environmental dynamic on insular phylogeny** *Amandine Vidal-Hosteng*  
ID: 1580

**10:00–11:00**

**Terrace 2A**

**S26. part 1/1 | The biological meaning of SNPs**

10:00–10:05 ID: 1128	<b>Investigating the genetic architecture of complex traits in Soay sheep</b>	<i>Caelinn James</i>
10:05–10:10 ID: 2067	<b>Investigating the genetic structure of taxa that form Species complex: a case study of <i>H. spicatum</i></b>	<i>Aleena Xavier</i>
10:15–10:30 ID: 1305	<b>From variation in a colony to variation in populations: what SNPs tell us about coral biology</b> <i>Invited speaker</i>	<i>Elora López-Nandam</i>
10:30–11:00 ID: 1387	<b>The challenge and promise of estimating de novo mutation rates and fates in a non-model primate</b> <i>Invited speaker</i>	<i>Anne Yoder</i>

**10:00–11:00**

**Terrace 2B**

**S12. part 1/1 | Resurrection ecology as a tool for the study of rapid evolution**

10:00–10:15 ID: 1235	<b>Resurrection ecology for environmental health: a perspective on biomonitoring and bioremediation</b> <i>Invited speaker</i>	<i>Luisa Orsini</i>
10:15–10:30 ID: 1987	<b>Spatio-temporal genome dynamics of <i>D. magna</i> populations in multifarious environments</b>	<i>Anurag Chaturvedi</i>
10:30–10:45 ID: 1246	<b>Demographic and genomic consequences of a rapid adaptation event in the poplar rust pathogen</b>	<i>Méline Saubin</i>
10:45–11:00 ID: 1877	<b>Resurrecting plants for climate change research</b> <i>Invited speaker</i>	<i>J.F. Niek Scheepens</i>

**10:00–11:00**

**South Hall 2A**

**S05. part 1/4 | A combinatorial view on rapid speciation—the role of ancient genetic variants and hybridisation**

10:00–10:30 ID: 2368	<b>The role of ancient inversions in repeated dune adaptation and speciation</b> <i>Invited speaker</i>	<i>Kate Ostevik</i>
10:30–10:45 ID: 1517	<b>Prevalence and influence of ancient hybridization in an african primate radiation</b>	<i>Axel Jensen</i>
10:45–11:00 ID: 2259	<b>Alternative associations between ecological and spatial components of divergence in seahorses</b>	<i>Laura Meyer</i>

**10:00–11:00**

**South Hall 2B**

**S04. part 1/4 | The evolutionary ecology of mating systems**

10:00–10:30 ID: 2456	<b>Ecological and evolutionary drivers of range-wide variation in mating system</b> <i>Invited speaker</i>	<i>Laura Galloway</i>
10:30–10:45 ID: 1412	<b>Timing and genomic consequences of intraspecific transitions to homostyly in <i>Primula vulgaris</i></b>	<i>Emiliano Mora-Carrera</i>
10:45–11:00 ID: 1141	<b>Rescue through an increased selfing rate under pollen limitation: plasticity vs. genetic evolution</b>	<i>Kuangyi Xu</i>

**11:00–11:30**

**Coffee break**

**11:30–12:30**

**Panorama Hall**

**S11. part 6/8 | Adaptation and evolution across environmental gradients**

11:30–11:45 ID: 1073	<b>The drivers of fast evolution in genetically depauperate <i>Lupinus</i> species from the Andean sky-islands</b>	<i>Diana Libeth Aparicio Vasquez</i>
11:45–12:00 ID: 1195	<b>Genomic local adaptation of a generalist plant species to pollinator communities, soil, and climate</b>	<i>Léa Frachon</i>
12:00–12:15 ID: 1232	<b>Parallel adaptation to environmental gradients in <i>Arabidopsis</i>: role of standing vs. de-novo variants</b>	<i>Filip Kolář</i>
12:15–12:30 ID: 1959	<b>The effects of global urbanization on demographic processes in <i>Trifolium repens</i></b>	<i>Aude Caizergues</i>

**11:30–12:30**

**South Hall 1A**

**S29. part 2/4 | Comparative genomics: a powerful tool for exploring broad evolutionary questions**

11:30–11:45 ID: 1860	<b>Genomes of coronavirus reservoir bats provide insights into immunity changes and viral tolerance</b>	<i>Ariadna Morales</i>
11:45–12:00 ID: 995	<b>A phylogenetic genome-phenome map of complex traits in primates</b>	<i>Alejandro Valenzuela</i>
12:00–12:15 ID: 2069	<b>18 years of inbreeding in the wild</b>	<i>Jan-Niklas Runge</i>
12:15–12:30 ID: 2153	<b>How does <i>Metarhizium brunneum</i> maintain diverse ecotypes is as an insect pathogen and root symbiont?</b>	<i>Carolina Nogueira</i>

**11:30–12:30**

**South Hall 1B**

**S39. part 1/3 | Mechanisms of host-symbiont coevolution: from genotype to phenotype**

11:30–12:00 ID: 2469	<b>Lousy and wormy tales: endless search for sympatric speciation via host-parasite co-evolution</b> <i>Invited speaker</i>	<i>Jan Štefka</i>
12:00–12:15 ID: 2321	<b>Drivers of highly specialized bird-haemosporidian associations in African sky islands</b>	<i>Pavel Munclinger</i>
12:15–12:30 ID: 1708	<b>How does the presence of a male killing parasite influence host dispersal strategy?</b>	<i>Franziska Andrea Brenninger</i>

**11:30–12:30**

**Terrace 2B**

**S20. part 1/3 | Unravelling the interplay between plasticity and evolution during rapid global change**

11:30–12:00 ID: 1690	<b>Plastic <i>versus</i> genetic responses to climate change and urbanisation in birds</b> <i>Invited speaker</i>	<i>Anne Charmantier</i>
12:00–12:30 ID: 2336	<b>Can plasticity and evolution keep pace with climate change? Lessons from urban heat islands</b> <i>Invited speaker</i>	<i>Ryan Martin</i>

**11:30–12:30**

**South Hall 2B**

**S04. part 2/4 | The evolutionary ecology of mating systems**

11:30–11:45 ID: 1440	<b>Dispersal and polyandry evolve as competing inbreeding avoidance strategies</b>	<i>Greta Bocedi</i>
11:45–12:00 ID: 1465	<b>Evolution of female multiple mating in spatially-structured populations</b>	<i>Lana Dunan</i>
12:00–12:15 ID: 2396	<b>DNA repair during non-reductional meiosis in the asexual rotifer <i>Adineta vaga</i></b>	<i>Karine Van Doninck</i>
12:15–12:30 ID: 1261	<b>The origins of reproductive isolation in diverging zooplankton populations</b>	<i>Ivana Jezkova</i>

## 11:30–12:45

### North Hall

#### S08. part 2/6 | Integrative biogeography: Past, present, future

11:30–11:45 ID: 2055	<b>"In to the tropics", coping with warm climates gave rise to the near global expansion of shrews</b>	<i>Lucie Nováková</i>
11:45–12:00 ID: 1438	<b>The drivers of global plant diversity</b>	<i>Melanie Tietje</i>
12:00–12:15 ID: 2265	<b>Diversity dynamics in birds of New World</b>	<i>Antonin Machac</i>
12:15–12:30 ID: 1930	<b>Evaluating parameter impact on temporal calibration of Macroscelidea phylogenies</b>	<i>Justus Hagemann</i>
12:30–12:45 ID: 1557	<b>Do the species with large geographic range diversify faster?</b>	<i>Jan Smyčka</i>

## 11:30–12:45

### Terrace 2A

#### S07. part 1/3 | Chromosome rearrangements in evolution

11:30–12:00 ID: 1208	<b>Chromosomal rearrangements and neo-sex chromosomes evolution in grasshoppers</b> <i>Invited speaker</i>	<i>Octavio Manuel Palacios Gimenez</i>
12:00–12:15 ID: 1427	<b>Evolutionary implications of 3D chromatin remodeling in the germ line</b>	<i>Lucía Álvarez-González</i>
12:15–12:30 ID: 1565	<b>Chromosomal rearrangement drives genomic disequilibrium in falcons</b>	<i>Justin Wilcox</i>
12:30–12:45 ID: 2284	<b>Introgression of a large rearrangement associated with dimorphic social organization in fire ants</b>	<i>Yannick Wurm</i>

## 11:30–12:30

### South Hall 2A

#### S05. part 2/4 | A combinatorial view on rapid speciation – the role of ancient genetic variants and hybridisation

11:30–11:45 ID: 1592	<b>The reshuffling of pigmentation genes leads to rapid phenotypic evolution in a finch radiation</b>	<i>Leonardo Campagna</i>
11:45–12:00 ID: 1689	<b>Shedding light on the early stages of a combinatorial event using whole-genomes from resting eggs</b>	<i>Markus Moest</i>
12:00–12:15 ID: 1479	<b>Hybrid speciation and population extinction</b>	<i>Alexandre Blanckaert</i>
12:15–12:30 ID: 1849	<b>Predictable sorting of genetic variants in hybrid genomes driven by selection</b>	<i>Jonna Kulmuni</i>

## 12:30–14:00

### Lunch break

## 12:45–13:45

### Terrace 2B

#### EvoKE (Evolutionary Knowledge for Everyone) networking meeting II

**14:00–15:30**

**Panorama Hall**

**S11. part 7/8 | Adaptation and evolution across environmental gradients**

14:00–14:15 ID: 1218	<b>Global urban environmental change drives adaptation in white clover</b>	<i>James Santangelo</i>
14:15–14:30 ID: 1620	<b>Evolutionary adaptive potential enlighten by genome–environment associations</b>	<i>Andrés Cortés</i>
14:30–14:45 ID: 2212	<b>Genetic basis of adaptation across aridity gradients in a new <i>Arabidopsis thaliana</i> diversity panel</b>	<i>Ahmed Elfarargi</i>
14:45–15:00 ID: 1478	<b>Local adaptation and environmental effects on the parasitic bacterium <i>Pasteuria ramosa</i></b>	<i>Frida Ben-Ami</i>
15:00–15:15 ID: 1562	<b>Genome-wide association mapping for growth rate at fluctuating and extreme temperatures</b>	<i>Emmi Räsänen</i>
15:15–15:30 ID: 2452	<b>Detecting parallel adaptation in clonal lineages of a plant pathogenic fungus</b>	<i>Sergio M. Latorre</i>

**14:00–15:30**

**South Hall 1A**

**S29. part 3/4 | Comparative genomics: a powerful tool for exploring broad evolutionary questions**

14:00–14:30 ID: 2467	<b>Evolution on the very fast lane: bacterial genomes as the playgrounds of mobile elements</b> <i>Invited speaker</i>	<i>Eduardo P.C. Rocha</i>
14:30–14:45 ID: 2386	<b>The silent impact: codon usage bias and protein evolution in bacteria</b>	<i>Ana Filipa Moutinho</i>
14:45–15:00 ID: 1282	<b>Host control and the evolution of cooperation in host microbiomes</b>	<i>Connor Sharp</i>
15:00–15:15 ID: 1288	<b>The evolution of spectrum in antibiotics and bacteriocins</b>	<i>Jacob Palmer</i>
15:15–15:30 ID: 1426	<b>Strong purifying selection in haploid tissue-specific genes of Scots pine supports masking theory</b>	<i>Sandra Cervantes</i>

**14:00–15:30**

**South Hall 1B**

**S39. part 2/3 | Mechanisms of host-symbiont coevolution: from genotype to phenotype**

14:00–14:30 ID: 1042	<b>Antagonistic coevolution across scales: Does the now explain the past?</b> <i>Invited speaker</i>	<i>Dieter Ebert</i>
14:30–14:45 ID: 1138	<b>Diverse coevolution paths towards coexistence of host-virus symbionts under antiviral stress</b>	<i>Ana del Arco</i>
14:45–15:00 ID: 1162	<b>Experimental coevolution and host dependency in a defensive symbiosis community</b>	<i>Georgia Drew</i>
15:00–15:15 ID: 2401	<b>The brain-gut axis of honey bees: Testing how microbiota affect individual and collective behavior</b>	<i>Anna M Chernyshova</i>
15:15–15:30 ID: 2172	<b>Evolution of endosymbiotic <i>Wolbachia</i> bacteria across different hosts</b>	<i>Matthias Scholz</i>

**14:00–15:30**

**North Hall**

**S08. part 3/6 | Integrative biogeography: Past, present, future**

14:00–14:30 ID: 2269	<b>Can species trait-based models of contemporary range shifts be rescued?</b> <i>Invited speaker</i>	<i>Sarah Diamond</i>
14:30–14:45 ID: 1185	<b>Range shifts of birds and moths, but not butterflies, are driven by width of their thermal niche</b>	<i>Maria Hällfors</i>
14:45–15:00 ID: 1649	<b>The role of traits in biogeographic long-distance dispersal</b>	<i>Sarah Weil</i>
15:00–15:15 ID: 1325	<b>Historical biogeography of personality traits in an amphibian</b>	<i>Claudio Carere</i>
15:15–15:30 ID: 2156	<b>Better models for understanding patterns of range size across latitude</b>	<i>James Saulsbury</i>

**14:00–15:30**

**Terrace 2A**

**S07. part 2/3 | Chromosome rearrangements in evolution**

14:00–14:30 ID: 1374	<b>Patterns of 3D chromatin folding and their impact on evolutionary genome reshuffling</b> <i>Invited speaker</i>	<i>Aurora Ruiz-Herrera</i>
14:30–14:45 ID: 1136	<b>Genome evolution in crucifers: the role of chromosomal rearrangements (?)</b>	<i>Martin Lysak</i>
14:45–15:00 ID: 1273	<b>The evolutionary history and adaptive role of chromosomal inversions in Atlantic herring</b>	<i>Mafalda Sousa Ferreira</i>
15:00–15:15 ID: 1464	<b>Programmed chromosome breakage delineated by precise scission sites are rearrangement hotspots</b>	<i>Pablo Manuel Gonzalez de la Rosa</i>
15:15–15:30 ID: 2354	<b>A sex chromosome inversion impacts gene expression in testes and liver in the zebra finch</b>	<i>Erica Helen Leder</i>

**14:00–15:30**

**Terrace 2B**

**S20. part 2/3 | Unravelling the interplay between plasticity and evolution during rapid global change**

14:00–14:15 ID: 1499	<b>The risk of extinction with nonlinear environmental change: models with evolution and plasticity</b>	<i>Philip Greenspoon</i>
14:15–14:30 ID: 1198	<b>Experimental evolution of environmental tolerance and plasticity under variable predictability</b>	<i>Marie Rescan</i>
14:30–14:45 ID: 1448	<b>Thermal stress, plasticity and selection for head temperature regulation in the World's largest bird</b>	<i>Erik Svensson</i>
14:45–15:00 ID: 1467	<b>Variation in phenotypic plasticity in Glanville fritillary butterfly larvae from a latitudinal cline</b>	<i>Nadja Verspagen</i>
15:00–15:15 ID: 1105	<b>Rapid and transient evolution of local adaptation to seasonal host fruits in an invasive fly</b>	<i>Laure Olazcuaga</i>
15:15–15:30 ID: 1436	<b>Developmental plasticity and the potential of host shift in the seed beetle</b>	<i>Uroš Savković</i>

**14:00–15:30**

**South Hall 2A**

**S05. part 3/4 | A combinatorial view on rapid speciation – the role of ancient genetic variants and hybridisation**

14:00–14:30 ID: 2318	<b>I get by with a little help from my friends: hybrid origins of a rare pupfish radiation</b> <i>Invited speaker</i>	<i>Emilie Richards</i>
14:30–14:45 ID: 1603	<b>Rapid radiation characterised by prevalent hybridization in the Neotropical genus <i>Tillandsia</i></b>	<i>Gil Yardeni</i>
14:45–15:00 ID: 1033	<b>Signatures of introgression implicate a regucalcin in the evolution of mate preference behaviours</b>	<i>Matteo Rossi</i>
15:00–15:15 ID: 2179	<b>Ancient and ongoing hybridisation in the adaptive radiation of silversides in the Malili lakes</b>	<i>Els De Keyser</i>
15:15–15:30 ID: 1891	<b>All roads lead to Rome: Complex histories of diversification and hybridization in wheatears</b>	<i>Reto Burri</i>

**14:00–15:30**

**South Hall 2B**

**S04. part 3/4 | The evolutionary ecology of mating systems**

14:00–14:30 ID: 2457	<b>An introduction to the evolution and consequences of self-fertilisation, and the role of ecological and demographic processes</b> <i>Invited speaker</i>	<i>Diala Abu Awad</i>
14:30–14:45 ID: 2132	<b>Ecological drivers and genomic consequences of repeated evolution of inbreeding mating systems</b>	<i>Trine Bilde</i>
14:45–15:00 ID: 1082	<b>The evolution of recombination in self-fertilizing organisms</b>	<i>Roman Stetsenko</i>
15:00–15:15 ID: 1702	<b>Pollinators of the sea: a discovery of animal mediated fertilization in seaweed</b>	<i>Emma Lavaut</i>
15:15–15:30 ID: 1586	<b>Contagious asexuality reveals selection acting during evolutionary transitions to parthenogenesis</b>	<i>Christoph Haag</i>

**15:30–16:00**

**Coffee break**

**16:00–17:30**

**Panorama Hall**

**S11. part 8/8 | Adaptation and evolution across environmental gradients**

16:00–16:15 ID: 1341	<b>Local genetic adaptation in chimpanzees along a habitat gradient</b>	<i>Harrison Ostridge</i>
16:15–16:30 ID: 1624	<b>Feather growth and quality across passerines is explained by breeding rather than moulting latitude</b>	<i>Kryštof Horák</i>
16:30–16:45 ID: 2003	<b>Standing variation and adaptation of a small mammal to climate change</b>	<i>Marco Escalante</i>
16:45–17:00 ID: 2370	<b>Improved habitat quality benefits mothers but has a fitness cost for Soay sheep offspring</b>	<i>Vivienne Litzke</i>
17:00–17:15 ID: 2043	<b>Latitudinal but not elevational variation in blood glucose is linked to life history in passerines</b>	<i>Oldřich Tomášek</i>
17:15–17:30 ID: 1956	<b>Herbivores adapt to metal-accumulating plants but lose their non-linear response at low metal doses</b>	<i>Diogo Prino Godinho</i>

**16:00–17:30**

**South Hall 1A**

**S29. part 4/4 | Comparative genomics: a powerful tool for exploring broad evolutionary questions**

16:00–16:30 ID: 2413	<b>Testing kin-selection theory with large-scale genomic approaches</b> <i>Invited speaker</i>	<i>Jacobus J. (Koos) Boomsma</i>
16:30–16:45 ID: 2148	<b>Major changes in domain arrangements are associated with the evolution of termite castes</b>	<i>Alina Mikhailova</i>
16:45–17:00 ID: 1242	<b>The evolutionary significance of horizontal gene transfer in ants</b>	<i>Janina Rinke</i>
17:00–17:15 ID: 1199	<b>The genomics of Heliconiini shows strong selective pressures prior Heliconius' adaptive radiation</b>	<i>Francesco Cicconardi</i>
17:15–17:30 ID: 2485	<b>Flash talks</b>	

**16:00–17:30**

**South Hall 1B**

**S39. part 3/3 | Mechanisms of host-symbiont coevolution: from genotype to phenotype**

16:00–16:30 ID: 2430	<b>Microbial determinants of folivory in beetles</b> <i>Invited speaker</i>	<i>Hassan Salem</i>
16:30–16:45 ID: 1561	<b>Dual nutritional symbionts in aphids: co-speciation and parallel evolution in symbiont genomes</b>	<i>Jeff Rouil</i>
16:45–17:00 ID: 2016	<b>Symbiont replacements are the rule rather than the exception in scale insects</b>	<i>Jinyeong Choi</i>
17:00–17:15 ID: 1920	<b>Context-dependent resource allocation in the mutualism between figs and their pollinator fig wasps</b>	<i>Manasa Kulkarni</i>
17:15–17:30 ID: 1577	<b>Multiple keys to one lock: the role of molecular exaptation in novel intracellular endosymbiosis</b>	<i>Joseph Kelly</i>

**16:00–17:30**

**North Hall**

**S08. part 4/6 | Integrative biogeography: Past, present, future**

16:00–16:30 ID: 2458	<b>Adaptive evolution reduces population-level resilience to climate change and generates geographic mosaics of climatic stress far from species' range limits</b> <i>Invited speaker</i>	<i>Michael C Singer</i>
16:30–16:45 ID: 1721	<b>The case for prioritizing ecology/behavior over genomics/taxonomy in conservation assessments</b>	<i>Camille Parmesan</i>
16:45–17:00 ID: 1952	<b>A global database of genetic diversity (GenDivRange) and a test of the central-marginal hypothesis</b>	<i>Katalin Csilléry</i>
17:00–17:15 ID: 1934	<b>Demography, selection and polyploidization shape geographic mosaics of plant-pollinator coevolution</b>	<i>Homa Papoli Yazdi</i>
17:15–17:30 ID: 1211	<b>Climate-mediated demographic changes and range shifts in a cold-adapted butterfly</b>	<i>Laurence Després</i>

**16:00–17:30**

**Terrace 2A**

**S07. part 3/3 | Chromosome rearrangements in evolution**

16:00–16:15 ID: 1039	<b>Detecting inversions across the species range of <i>Littorina saxatilis</i> using whole genome data</b>	James Reeve
16:15–16:30 ID: 1175	<b>Genetic architecture and evolution of the distyly supergene in <i>Linum</i></b>	Tanja Slotte
16:30–16:45 ID: 1742	<b>Tracing genome evolution: from ancestral karyotypes to current genomes in three mammalian clades</b>	Cristina Arias-Sardá
16:45–17:00 ID: 1808	<b>The effect of chromosomal inversions on gene expression</b>	Paris Veltsos
17:00–17:15 ID: 1885	<b>Weak purifying selection and recombination shape the evolution of the fire ant <i>Social</i> supergene</b>	Quentin Helleu
17:15–17:30 ID: 2077	<b>Investigating the role of structural variants in rapid diversification of Lake Malawi cichlids</b>	Jaysmita Saha

**16:00–17:30**

**Terrace 2B**

**S20. part 3/3 | Unravelling the interplay between plasticity and evolution during rapid global change**

16:00–16:15 ID: 1300	<b>Environmental response in gene expression and DNA methylation reveals factors influencing adaptation</b>	Tuomas Hämälä
16:15–16:30 ID: 1994	<b>Temperature-induced recombination rate plasticity in diploid populations of <i>Arabidopsis arenosa</i></b>	Marinela Dukic
16:30–16:45 ID: 2343	<b>Rapid evolution in salmon life history induced by direct and indirect human-induced effects</b>	Craig Primmer
16:45–17:00 ID: 1012	<b>Urban evolution of seasonal plasticity of life history and color in Lepidoptera</b>	Matthew Nielsen
17:00–17:15 ID: 1164	<b>Hierarchical plasticity, and selection on plasticity, shape the dynamics of seasonal movement</b>	Paul Acker
17:15–17:30 ID: 1935	<b>Spatial, environmental and genetic contributions to timing of breeding in wild great tits</b>	Carys Jones

**16:00–17:30**

**South Hall 2A**

**S05. part 4/4 | A combinatorial view on rapid speciation – the role of ancient genetic variants and hybridisation**

16:00–16:15 ID: 1802	<b>Evolution of assortative mating following experimental color introgression in <i>Drosophila</i></b>	Amir Yassin
16:15–16:30 ID: 1425	<b>The role of ancestral hybridization in clownfish adaptive radiation</b>	Sarah Schmid
16:30–16:45 ID: 1026	<b>Rate variation produces false signals of introgression</b>	Thore Koppetsch
16:45–17:00 ID: 1113	<b>A role for regulation of gene expression in hybridization derived novelty?</b>	Anna Runemark
17:00–17:15 ID: 1038	<b>Exploring hybridization in <i>Flaveria</i> (Asteraceae), the prime model of C<sub>4</sub> photosynthesis evolution</b>	Diego Morales-Briones
17:15–17:30 ID: 2169	<b>Does hybridization facilitate explosive speciation of Lake Baikal amphipods?</b>	Valentina Burskaia

**16:00–17:30**

**South Hall 2B**

**S04. part 4/4 | The evolutionary ecology of mating systems**

16:00–16:15 ID: 2160	<b>Self-compatibility for reproductive assurance not population level compatibility</b>	<i>Bart Nieuwenhuis</i>
16:15–16:30 ID: 1844	<b>Ancient mating alleles maintained by balancing selection in basidiomycete fungi</b>	<i>Inger Skrede</i>
16:30–16:45 ID: 1799	<b>Pollinator abundance effects on sexual selection in plants</b>	<i>Estelle Barbot</i>
16:45–17:00 ID: 1443	<b>Shifts to selfing during range expansion cannot overcome the accumulation of genetic load</b>	<i>Leo Zeitler</i>
17:00–17:15 ID: 1686	<b>Using runs of homozygosity to distinguish mating system from inbreeding and demographic history</b>	<i>Kimberly Gilbert</i>
17:15–17:30 ID: 1504	<b>The selection and genomic architecture of hermaphroditism and dioecy under experimental evolution</b>	<i>John Pannell</i>

**18:30–20:00**

**Evening networking**

**Important: the networking takes place OUTSIDE the Congress venue!**

**Meeting of national evolution societies** – 18:30, Faculty of Science, Charles University, Viničná 7

**Netherlands Evolutionary Biology Get-Together** – 18:30–20:00, pub 'U Šumavy', Štěpánská 3

**Wednesday, August 17, 2022**

**09:00–09:45**

**Congress Hall**

**Plenary talk 3: Kayla King–Virulence, biodiversity, and host-parasite coevolution**

**09:45–10:00**

**Break**

**10:00–11:30**

**Panorama Hall**

**S40. part 03/10 | Open symposium**

10:00–10:15 ID: 997	<b>The origin of meiosis from eukaryogenesis</b>	<i>Marco Colnaghi</i>
10:15–10:30 ID: 1086	<b>Adaptive evolution under rewired genetic codes</b>	<i>Hana Rozhoňová</i>
10:30–10:45 ID: 1681	<b>Population genetics of small isolated populations</b>	<i>Anubhab Khan</i>
10:45–11:00 ID: 1716	<b>Through the lens of experimental evolution: a genome-wide view of the mutation process in <i>C. elegans</i></b>	<i>Vaishali Katju</i>
11:00–11:15 ID: 2317	<b>Pervasive selection biases inferences of the species tree</b>	<i>Carolin Kosiol</i>
11:15–11:30 ID: 1066	<b>Integrating phylogenetic estimation with complex evolutionary models in phylogenetic inference</b>	<i>Joëlle Barido-Sottani</i>

**10:00–11:30**

**South Hall 1A**

**S19. part 1/2 | Eco-evolutionary dynamics and feedbacks in invasive species**

10:00–10:30 ID: 1497	<b>Genome-wide signatures of synergistic epistasis during parallel adaptation in an invading copepod</b> <i>Invited speaker</i>	<i>Carol Eunmi Lee</i>
10:30–10:45 ID: 2182	<b>The genomics of invasiveness: lessons from the ant <i>Cardiocondyla obscurior</i></b>	<i>Mohammed Errbii</i>
10:45–11:00 ID: 1560	<b>Genetic signatures of a range expansion in natura: how clones play leapfrog?</b>	<i>Fabien Halkett</i>
11:00–11:15 ID: 1867	<b>Selection and hybridization interact to shape the outcome of <i>Helicoverpa</i> invasion in Brazil</b>	<i>Henry North</i>
11:15–11:30 ID: 1771	<b>How does sex influence range expansions with evolution of dispersal? A quantitative analysis</b>	<i>Léonard Dekens</i>

**10:00–11:30**

**South Hall 1B**

**S23. part 1/4 | The evolution and consequences of non-mendelian inheritance**

10:00–10:30 ID: 2463	<b>Genetic conflicts between sex chromosomes drive expansion and loss of sperm nuclear basic protein genes in <i>Drosophila</i></b> <i>Invited speaker</i>	<i>Ching-Ho Chang</i>
10:30–10:45 ID: 1460	<b>Mitochondrial variant specifically impairs male fertility in seed beetle <i>Acanthoscelides obtectus</i></b>	<i>Mirko Đorđević</i>
10:45–11:00 ID: 1237	<b>The evolution and genetic mechanism of sex-ratio meiotic drive in <i>Drosophila affinis</i></b>	<i>Wen-Juan Ma</i>
11:00–11:15 ID: 1229	<b>Virus-like transposons cross the species barrier driving the evolution of genetic incompatibilities</b>	<i>Israel Campo Bes</i>
11:15–11:30 ID: 1993	<b>The fate of a suppressed X-linked meiotic driver: experimental evolution in <i>Drosophila simulans</i></b>	<i>Héloïse Bastide</i>

## 10:00–11:30

### North Hall

#### S01. part 1/2 | Tug of war between the sexes: The transcriptomic architecture of sex-linked traits

10:00–10:30 ID: 2481	<b>Sexual conflict over gene expression? Insights from stick insects with different reproductive modes</b> <i>Invited speaker</i>	<i>Tanja Schwander</i>
10:30–10:45 ID: 1739	<b>Sex-biased gene expression: cause versus consequence of sexual dimorphism</b>	<i>Iulia Darolti</i>
10:45–11:00 ID: 1642	<b>Sex or sex role – unravelling the evolutionary route of sex-specific senescence</b>	<i>Freya Pappert</i>
11:00–11:15 ID: 1509	<b>Gene expression responses to selection for increased and reduced sexual dimorphism</b>	<i>R Axel W Wiberg</i>
11:15–11:30 ID: 1134	<b>On the genetic basis of sex differences in gene expression: sex-bias eQTLs</b>	<i>Gemma Puixeu</i>

## 10:00–11:30

### Terrace 2A

#### S16. part 1/2 | Predator cognition and the evolution of prey defence strategies

10:00–10:30 ID: 2461	<b>Predator selection on phenotypic variability of cryptic and aposematic moths</b> <i>Invited speaker</i>	<i>Johanna Mappes</i>
10:30–10:45 ID: 2026	<b>Selection on individual warning signal elements in the aposematic moth</b>	<i>Liisa Hämäläinen</i>
10:45–11:00 ID: 2287	<b>Do predators maintain polymorphism in an invasive moth?</b>	<i>Riccardo Poloni</i>
11:00–11:15 ID: 972	<b>Parallel, repeated co-option of a sexual ornament for a defensive signal in mimetic evolution</b>	<i>Bhavya Dharmaraaj</i>
11:15–11:30 ID: 1781	<b>Predator responses to real and hypothetical 3D printed phenotypes within a Batesian mimicry complex</b>	<i>Christopher Taylor</i>

## 10:00–11:30

### Terrace 2B

#### S15. part 1/2 | Rapid evolution of color patterns

10:00–10:15 ID: 1193	<b>Rapid evolution of flower color</b> <i>Invited speaker</i>	<i>Mar Sobral</i>
10:15–10:30 ID: 2249	<b>Color adaptation during the repeated domestication of grain amaranth</b>	<i>Markus Stetter</i>
10:30–10:45 ID: 1472	<b>Predicting the rate and direction of bird colour evolution under natural and social selection</b>	<i>Chris Cooney</i>
10:45–11:00 ID: 1616	<b>Mapping the heritability of highly variable guppy color with deep learning</b>	<i>Wouter van der Bijl</i>
11:00–11:15 ID: 2046	<b>Natural selection, not sexual selection, likely maintains a regionally isolated sexual dimorphism</b>	<i>Kalle Tunström</i>
11:15–11:30 ID: 1609	<b>Characterization of the transcriptome of the color-polymorphic spider <i>Gasteracantha cancriformis</i></b>	<i>Paula Torres</i>

## 10:00–11:30

### South Hall 2A

#### S17. part 1/2 | Brain, behaviour and cognitive evolution

10:00–10:30 ID: 2462	<b>The effects of the high energy needs of neural tissue on brain size variation in vertebrates</b> <i>Invited speaker</i>	<i>Carel van Schaik</i>
10:30–10:45 ID: 1004	<b>Social and ecological factors predict variation in brain size across birds</b>	<i>Jasmine Hardie</i>
10:45–11:00 ID: 1022	<b>Learning from lizards: Lacertidae as a model system in comparative cognition?</b>	<i>Lisa Van Linden</i>
11:00–11:15 ID: 1221	<b>Enhanced memory in <i>Heliconius</i> butterflies linked with increased mushroom body size and plasticity</b>	<i>Fletcher Young</i>
11:15–11:30 ID: 1332	<b>The evolution of brain neuron numbers in amniotes</b>	<i>Kristina Kverková</i>

## 10:00–11:30

### South Hall 2B

#### S33. part 1/2 | Domestication: Fresh insights from ancient genomics

10:00–10:15 ID: 1477	<b>Quantifying reproductive isolation between wild and domestic lineages using ancient genomics</b> <i>Invited speaker</i>	<i>Laurent Frantz</i>
10:15–10:30 ID: 2045	<b>Ancient dogs and modern tricks: Tracing patterns of selection and trait evolution in ancient dogs</b>	<i>Katia Bougiouri</i>
10:30–10:45 ID: 2384	<b>Genomes of ancient iberian dogs – a story with at least 7,600 years</b>	<i>Silvia Guimaraes</i>
10:45–11:00 ID: 1574	<b>The complex genomics of Neolithic domestic pigs and European wild boar in Northwest Europe</b>	<i>Jolijn Erven</i>
11:00–11:15 ID: 1393	<b>Paleogenomics reveals the most ancient breeding of equid hybrids in human history</b>	<i>Thierry Grange</i>
11:15–11:30 ID: 1733	<b>Sunflower domestication in space and time</b>	<i>Benjamin Blackman</i>

## 11:30–12:00

### Coffee break

## 12:00–13:00

### Panorama Hall

#### S40. part 04/10 | Open symposium

12:00–12:15 ID: 1788	<b>The evolutionary impacts of synonymous mutations</b>	<i>Deepa Agashe</i>
12:15–12:30 ID: 1811	<b>Testing Wright's intermediate population size hypothesis – when genetic drift is a good thing</b>	<i>Mitch Cruzan</i>
12:30–12:45 ID: 1840	<b>Reproductive barriers and genomic hotspots of adaptation during allopatric species divergence</b>	<i>Riddhi Deshmukh</i>
12:45–13:00 ID: 1923	<b>Topological comparison of coalescent tree inference tools.</b>	<i>Ferdinand Petit</i>

## 12:00–13:00

### South Hall 1A

#### S19. part 2/2 | Eco-evolutionary dynamics and feedbacks in invasive species

12:00–12:15 ID: 1375	<b>There and back again: Experimental epidemic waves and eco-evolutionary feedbacks</b>	<i>Giacomo Zilio</i>
12:15–12:30 ID: 1228	<b>Complex introduction patterns and population structure of invasive cerambycids in Europe</b>	<i>Iris Häussermann</i>
12:30–13:00 ID: 1597	<b>Perspectives on the interplay of ecological and evolutionary processes in species invasions</b> <i>Invited speaker</i>	<i>Katrina Dlugosch</i>

## 12:00–13:00

### North Hall

#### S01. part 2/2 | Tug of war between the sexes: The transcriptomic architecture of sex-linked traits

12:00–12:15 ID: 2455	<b>Developmental architecture of sexual dimorphism and its evolution: insights through the study of horned dung beetles</b> <i>Invited speaker</i>	<i>Patrick Rohner</i>
12:15–12:30 ID: 1634	<b>What great big (and sex-specific) eyes you have: the turbanate eyes of mayflies</b>	<i>Isabel Almudi</i>
12:30–12:45 ID: 2072	<b>Evolutionary sex-biased gene expression in Lake Tanganyika cichlid fishes</b>	<i>Nicolas Lichilin</i>
12:45–13:00 ID: 2258	<b>Evolution of sex chromosomes and mechanisms of dosage compensation in squamate reptiles</b>	<i>Michail Rovatsos</i>

## 12:00–13:00

### Terrace 2A

#### S16. part 2/2 | Predator cognition and the evolution of prey defence strategies

12:00–12:15 ID: 2094	<b>The effect of predator population dynamics on Batesian mimicry complexes</b>	<i>David Kikuchi</i>
12:15–12:30 ID: 1031	<b>Sensory drive as a framework for understanding the effectiveness of warning signals</b>	<i>Olivier Penacchio</i>
12:30–13:00 ID: 1796	<b>Adaptive search and habituation to stimuli: a Bayesian approach</b> <i>Invited speaker</i>	<i>Tom Sherratt</i>

## 12:00–13:00

### Terrace 2B

#### S15. part 2/2 | Rapid evolution of color patterns

12:00–12:15 ID: 1984	<b>Eco-evo-devo of seasonal plasticity in insect color patterns</b> <i>Invited speaker</i>	<i>Patrícia Beldade</i>
12:15–12:30 ID: 1908	<b>Modular regulation and convergent evolution of ASIP underpins color variation in wheatears</b>	<i>Dave Lutgen</i>
12:30–12:45 ID: 1833	<b>Diversity of carotenoid-based body color in cichlid fish: molecular basis and evolutionary history</b>	<i>Kristina Sefc</i>
12:45–13:00 ID: 1446	<b>Fine-mapping of color pattern variation and its genomic bases in a rapid radiation</b>	<i>Floriane Coulmance</i>

## 12:00–13:00

### South Hall 2A

#### S17. part 2/2 | Brain, behaviour and cognitive evolution

12:00–12:15 ID: 1476	<b>What cognitive abilities might differentiate endotherm and ectotherm vertebrates?</b>	<i>Redouan Bshary</i>
12:15–12:30 ID: 2001	<b>Brain size evolution is shaped by life history in lizards</b>	<i>Donald Miles</i>
12:30–12:45 ID: 2308	<b>To choose or not to choose? Personality &amp; cognition as drivers of decision-making in wild zebrafish</b>	<i>Danita Daniel</i>
12:45–13:00 ID: 1391	<b>Cognition in the wild: Ecology dictates the value of memory for foraging bees</b>	<i>Cecylia Watrobska</i>

**12:00–13:15**

**South Hall 1B**

**S23. part 2/4 | The evolution and consequences of non-mendelian inheritance**

12:00–12:15 ID: 2113	<b>Genomic signatures of ancient asexuality in the oribatid mite <i>Platynothrus peltifer</i></b>	<i>Hüsna Öztoprak</i>
12:15–12:30 ID: 1661	<b>Deciphering autopseudogamy of <i>Mesorhabditis</i> nematodes with combined cytology and genomics</b>	<i>Caroline Blanc</i>
12:30–12:45 ID: 2052	<b>Constraints and preconditions of clonality and sterility in obtained F1 hybrid loaches (<i>Cobitis</i>)</b>	<i>Anatolie Marta</i>
12:45–13:00 ID: 1676	<b>Meiotic driver homologs in asexual fusarium species</b>	<i>Linnea Sandell</i>
13:00–13:15 ID: 1651	<b>Disentangling Verbal Arguments: Intralocus Sexual Conflict in Haplodiploids</b>	<i>Kora Klein</i>

**12:00–13:00**

**South Hall 2B**

**S33. part 2/2 | Domestication: Fresh insights from ancient genomics**

12:00–12:15 ID: 2351	<b>Addressing the history of a local cattle breed</b>	<i>Karel Novák</i>
12:15–12:30 ID: 1819	<b>Reconstructing the genetic history of the extinct aurochs: structure, demography and genomic legacy</b>	<i>Conor Rossi</i>
12:30–12:45 ID: 1632	<b>Population genetics of ancient Iberian sheep: insights on early European sheep populations</b>	<i>Pedro Morell Miranda</i>
12:45–13:00 ID: 2192	<b>An archaeogenetic perspective into sheep demographic history by analysing Anatolian Neolithic sheep</b>	<i>Fusun Özer</i>

**13:00–13:15**

Lunch, followed by free afternoon

**13:15–14:15**

**Terrace 2B**

Student career development meeting

**15:00–16:30**

Tandem Repeat Satellite Symposium

**Important: The satellite symposium takes place OUTSIDE the Congress venue!**

15:00–16:30, Faculty of Science, Charles University, Viničná 7

**Thursday, August 18, 2022**

**09:00–09:45**

**Congress Hall**

**Plenary talk 4: Alexei Maklakov-Why do we age? Challenges and emerging theories in the evolution of ageing**

**09:45–10:00**

**Break**

**10:00–11:00**

**Panorama Hall**

**S10. part 1/6 | Eco-evolutionary dynamics in changing environments: insights from models, experiments and case studies**

10:00–10:30 **Patterns and effects of gene flow on adaptation across spatial scales: implications for management and models** *Jason Sexton*  
ID: 2459 **Invited speaker**

10:30–10:45 **Eco-evolutionary dynamics under spatio-seasonal environmental change: from theory to nature** *Jane Reid*  
ID: 1157

10:45–11:00 **Rapid seasonal thermal adaptation in *Chironomus riparius*** *Quentin Foucault*  
ID: 2006

**10:00–11:00**

**South Hall 1A**

**S38. part 1/6 | Molecular evolution and trade-offs in host-pathogen interactions and host immunity**

10:00–10:30 **The evolution of powerful yet perilous immune systems** *Andrea L. Graham*  
ID: 1854 **Invited speaker**

10:30–10:45 **Expression of the gut parasite, *Crithidia bombi*, reveals networks of infection-relevant genes.** *Hawra Al-Ghafli*  
ID: 1062

10:45–11:00 **Tapeworm parasite secreting proteins with antioxidant properties significantly extends host lifespan** *Susanne Foitzik*  
ID: 1081

**10:00–11:00**

**South Hall 1B**

**S28. part 1/1 | Beyond transcription: the role of post-transcriptional gene regulation in adaptation and evolution**

10:00–10:15 **The transcriptional architecture of sexual dimorphism** *Alison Wright*  
ID: 1361 **Invited speaker**

10:15–10:30 **Molecular mechanisms of adaptation to freshwater in threespine stickleback** *Carlos Rodríguez-Ramírez*  
ID: 1159

10:30–10:45 **RNA binding proteins in parental genetic conflict: how MBNL3 was co-opted to restrict placental growth in eutherians** *Manuel Irimia*  
ID: 1657 **Invited speaker**

10:45–11:00 **Intron-mediated induction of phenotypic heterogeneity** *Adriana Espinosa Cantu*  
ID: 1345

**10:00–11:00**

**North Hall**

**S02. part 1/4 | Sex chromosome evolution: the canonical model and so much beyond**

10:00–10:30 **Multiple evolutionary strata on mating-type chromosomes despite the lack of sexual antagonism** *Tatiana Giraud*  
ID: 976 **Invited speaker**

10:30–10:45 **A deleterious mutation-sheltering model for the evolution of sex chromosomes and supergenes** *Paul Jay*  
ID: 1027

10:45–11:00 **Epigenetic conflict on a degenerating Y chromosome increases mutational burden in *Drosophila* males** *Kevin Wei*  
ID: 2422

**10:00–11:00**

**Terrace 2A**

**S25. part 1/3 | The positives and negatives of whole genome duplication: synthesizing polyploid evolution across organisms and disciplines**

10:00–10:30 ID: 2465	<b>New genomics perspectives on polyploidy</b> <i>Invited speaker</i>	<i>Barbara K. Mable</i>
10:30–11:00 ID: 2383	<b>Reconciling differences in polyploidy and diversity across the vascular plants</b> <i>Invited speaker</i>	<i>Michael Barker</i>

**10:00–11:00**

**Terrace 2B**

**S23. part 3/4 | The evolution and consequences of non-mendelian inheritance**

10:00–10:30 ID: 2327	<b>Hybrid B chromosome evolution via horizontal gene transfer from bacterial symbiont to insect host</b> <i>Invited speaker</i>	<i>Anna Voleníková</i>
10:30–10:45 ID: 1335	<b>A killer in hiding: selfish drive by social supergene in silver ants</b>	<i>Michel Chapuisat</i>
10:45–11:00 ID: 991	<b>Paternal genome elimination promotes altruism in viscous populations</b>	<i>Thomas Hitchcock</i>

**10:00–11:00**

**South Hall 2A**

**S18. part 1/4 | The evolution of behavioural adaptations: Genes, neurons and ecology**

10:00–10:30 ID: 1482	<b>Genetic basis and physiological role of increased sensory pooling in an ecological specialist</b> <i>Invited speaker</i>	<i>Thomas Auer</i>
10:30–10:45 ID: 1009	<b>The genetic basis of spatial cognitive variation in a food-caching bird</b>	<i>Scott Taylor</i>
10:45–11:00 ID: 2106	<b>Molecular and epigenetic mechanisms underlying individual differences in cognitive flexibility</b>	<i>Krista van den Heuvel</i>

**10:00–11:00**

**South Hall 2B**

**S31. part 1/4 | Limits to adaptation: linking evolution, ecology, and genetics**

10:00–10:30 ID: 2274	<b>Limits to plasmid-driven adaptation of bacterial populations</b> <i>Invited speaker</i>	<i>Hildegard Uecker</i>
10:30–10:45 ID: 2315	<b>A theory of multi-site evolutionary rescue/resistance applied to gene drive suppression systems</b>	<i>Bhavin Khatri</i>
10:45–11:00 ID: 1621	<b>Snake time machine: investigating constraints on evolution through ancestral protein resurrection</b>	<i>Shabnam Mohammadi</i>

**11:00–11:30**

**Coffee break**

**11:30–12:30**

**Panorama Hall**

**S10. part 2/6 | Eco-evolutionary dynamics in changing environments: insights from models, experiments and case studies**

11:30–11:45 ID: 1319	<b>Experimental local plant adaptation to soil is reinforced by herbivory</b>	<i>Florian P. Schiestl</i>
11:45–12:00 ID: 1967	<b>Rapid evolution in populations of a long-lived dominant grass species</b>	<i>Zuzana Münzbergová</i>
12:00–12:15 ID: 2155	<b>Adaptation to cadmium shapes coexistence patterns in herbivore species</b>	<i>Inês Fragata</i>
12:15–12:30 ID: 1275	<b>The demographic consequences of adaptation: Evidence from experimental evolution</b>	<i>Karen Bisschop</i>

**11:30–12:30**

**South Hall 1A**

**S38. part 2/6 | Molecular evolution and trade-offs in host-pathogen interactions and host immunity**

11:30–11:45 ID: 2346	<b>Genomic associations with spatially variable pathogen pressures across island bird populations</b>	<i>Eleanor Sheppard</i>
11:45–12:00 ID: 1406	<b>How do sick fish sleep? – Sleep of three-spined stickleback upon <i>Schistocephalus solidus</i> infection</b>	<i>Marc Bauhus</i>
12:00–12:15 ID: 1763	<b>Resistance variation and life-history trait correlations of <i>Peronospora sparsa</i> on three <i>Rubus</i> hosts</b>	<i>Hanna Susi</i>
12:15–12:30 ID: 1754	<b>Deciphering the evolution of the antiviral system via studying the role of MAVS homolog in Cnidaria</b>	<i>Ton Sharoni</i>

**11:30–12:30**

**South Hall 1B**

**S40. part 05/10 | Open symposium**

11:30–11:45 ID: 1921	<b>Jumping over the genomic cliff: demographic history and adaptations in the Norwegian lemming</b>	<i>Isabelle Feinauer</i>
11:45–12:00 ID: 1433	<b>Testing hypotheses of coevolutionary key innovations with CRISPR, caterpillars, and cabbages</b>	<i>Hanna Dort</i>
12:00–12:15 ID: 2093	<b>Predicting the phenotype from the genotype? – The case of the vomeronasal organ of semiaquatic mammals</b>	<i>Ulla Lächele</i>
12:15–12:30 ID: 2236	<b>DNA methylation patterns in the placenta of viviparous fish</b>	<i>Yolitz Saldivar Lemus</i>

**11:30–12:30**

**North Hall**

**S02. part 2/4 | Sex chromosome evolution: the canonical model and so much beyond**

11:30–11:45 ID: 982	<b>Y recombination arrest and degeneration in the absence of sexual dimorphism</b>	<i>Denis Roze</i>
11:45–12:00 ID: 2275	<b>Evolution of sex chromosomes in <i>Leucadendron</i>, the world's most sexually dimorphic flowering plants</b>	<i>Mathias Scharmann</i>
12:00–12:15 ID: 1548	<b>Y chromosome facilitates sexual size dimorphism in the seed beetle</b>	<i>Philipp Kaufmann</i>
12:15–12:30 ID: 1074	<b>Experimental evolution of a de novo sex chromosome system</b>	<i>Jessica Abbott</i>

**11:30–12:30**

**Terrace 2A**

**S40. part 06/10 | Open symposium**

11:30–11:45 ID: 1014	<b>Sex differences in parental responses to offspring begging</b>	<i>Shana Caro</i>
11:45–12:00 ID: 1696	<b>Sex-dependent effects of parental age on offspring fitness in a cooperatively breeding bird</b>	<i>Hannah Dugdale</i>
12:00–12:15 ID: 1945	<b>Cultural evolution in the wild: tracking the landscape of diversity in bird song</b>	<i>Nilo Merino Recalde</i>
12:15–12:30 ID: 2400	<b>Using machine learning to understand optimal camouflage in <i>Cepaea</i> snails</b>	<i>Sandra Winters</i>

### 11:30–12:30

#### Terrace 2B

##### S23. part 4/4 | The evolution and consequences of non-mendelian inheritance

11:30–11:45 ID: 987	<b>Occasional paternal inheritance of the germline-restricted chromosome in songbirds</b>	<i>Yifan Pei</i>
11:45–12:00 ID: 2019	<b>Gametophytic selection and selective embryo abortion in <i>Mimulus guttatus</i></b>	<i>Karla de Lima Berg</i>
12:00–12:15 ID: 1738	<b>Expression and evolution of germline restricted chromosomes in fungus gnats</b>	<i>Christina Hodson</i>
12:15–12:30 ID: 1401	<b>The complex story of an old germline-restricted chromosome</b>	<i>Francisco J Ruiz-Ruano</i>

### 11:30–12:30

#### South Hall 2A

##### S18. part 2/4 | The evolution of behavioural adaptations: Genes, neurons and ecology

11:30–11:45 ID: 1605	<b>How collective behavior evolves? Mechanistic insights from artificial selection in guppies</b>	<i>Alberto Corral-Lopez</i>
11:45–12:00 ID: 1428	<b>Untapping the genetics of vertebrate dispersal combining RNAseq, RADseq and quantitative genetics</b>	<i>Luis M. San-Jose</i>
12:00–12:15 ID: 1501	<b>Patterns of gene expression in a migratory divide between songbirds</b>	<i>Kira Delmore</i>
12:15–12:30 ID: 1075	<b>Genetic and neuronal mechanisms of circadian plasticity loss in the equatorial <i>Drosophila sechellia</i></b>	<i>Michael Shahandeh</i>

### 11:30–12:30

#### South Hall 2B

##### S31. part 2/4 | Limits to adaptation: linking evolution, ecology, and genetics

11:30–11:45 ID: 1524	<b>Experimental co-evolution reveals demography and selection interact in shaping genetic diversity</b>	<i>Guérolé Le Pennec</i>
11:45–12:00 ID: 1907	<b>Bottlenecks can constrain evolutionary paths</b>	<i>Jasmine Gamblin</i>
12:00–12:15 ID: 1358	<b>Evolutionary rescue in a fluctuating environment</b>	<i>Loïc Marrec</i>
12:15–12:30 ID: 981	<b>Evolutionary trade-offs between heat and cold tolerance limit responses to fluctuating climates</b>	<i>Mads Fristrup Schou</i>

### 12:30–14:00

#### Lunch break

### 12:45–13:45

#### Terrace 2A

##### Students meet editors

**14:00–15:30**

**Panorama Hall**

**S10. part 3/6 | Eco-evolutionary dynamics in changing environments: insights from models, experiments and case studies**

14:00–14:15 ID: 1534	<b>Adaptive development in variable environments</b>	<i>Tom Van Dooren</i>
14:15–14:30 ID: 1225	<b>The evolution of size-dependent competitive interactions and resource use promotes coexistence</b>	<i>Jaime M Anaya-Rojas</i>
14:30–14:45 ID: 1489	<b>Planting long-lived trees in a warming climate: investigating a trade-off in the optimal provenance</b>	<i>Adèle Erlichman</i>
14:45–15:00 ID: 1650	<b>Spatio-temporal dynamics of a major rice virus, highly diverse at local scale in Burkina Faso</b>	<i>Estelle Billard</i>
15:00–15:15 ID: 1529	<b>Niche shifts promoting the native range expansion, but not yet invasion, of an annual plant</b>	<i>Nicky Lustenhouwer</i>
15:15–15:30 ID: 2048	<b>Evolution of plasticity prevents post-invasion extinction of a native forb</b>	<i>Petr Dostal</i>

**14:00–15:30**

**South Hall 1A**

**S38. part 3/6 | Molecular evolution and trade-offs in host-pathogen interactions and host immunity**

14:00–14:30 ID: 2073	<b>Selecting for tolerance: Examining the consequences for host and pathogen</b> <i>Invited speaker</i>	<i>Sophie Armitage</i>
14:30–14:45 ID: 1981	<b>Coordinated gene expression of hosts and parasites across resistant and tolerant populations</b>	<i>Amanda Hund</i>
14:45–15:00 ID: 1539	<b>Transgenerational evolution of immunity in an invertebrate-yeast system</b>	<i>Sofia Paraskevopoulou</i>
15:00–15:15 ID: 1619	<b>Amputations and antimicrobial wound care of infected wounds in ant societies</b>	<i>Erik Frank</i>
15:15–15:30 ID: 2177	<b>CRISPR, herd immunity and transduction allow bacteria to speed up adaptation by recombination</b>	<i>Pavel Payne</i>

**14:00–15:30**

**South Hall 1B**

**S34. part 1/2 | How have biomarkers improved our understanding of health and the evolution of senescence?**

14:00–14:30 ID: 1578	<b>Beauty sleep the marmot way: senescence, hibernation and epigenetic age in yellow-bellied marmots</b> <i>Invited speaker</i>	<i>Julien Martin</i>
14:30–14:45 ID: 1486	<b>Reduced insulin signalling in adulthood protects soma and germline under mutation accumulation</b>	<i>Elizabeth Duxbury</i>
14:45–15:00 ID: 1206	<b>The bright side of aging, as told by <i>E. coli</i></b>	<i>Audrey M. Proença</i>
15:00–15:15 ID: 1418	<b>DNA methylation as biomarker of biological age in non-model species</b>	<i>Marianthi Tangili</i>
15:15–15:30 ID: 2273	<b>Transposable elements mark tissue specific aging in termite workers</b>	<i>Daniel Elsner</i>

## 14:00–15:30

### North Hall

#### S02. part 3/4 | Sex chromosome evolution: the canonical model and so much beyond

14:00–14:30 ID: 2225	<b>Diverse sex chromosomes in Caribbean leaf-litter geckos (<i>Sphaerodactylus</i>)</b> <b>Invited speaker</b>	<i>Tony Gamble</i>
14:30–14:45 ID: 1662	<b>Comparative genomics and gene editing evidence rapid evolution of sex determination in frogs</b>	<i>Ben Evans</i>
14:45–15:00 ID: 2053	<b>The chromosome-scale genome of the European green toad reveals a sex-determination candidate region.</b>	<i>Matthias Stoeck</i>
15:00–15:15 ID: 1061	<b>A novel sex determination gene on a polymorphic XY sex chromosome system in fourspine stickleback</b>	<i>Zuyao Liu</i>
15:15–15:30 ID: 1618	<b>Turnover of sex chromosomes and male pregnancy related genes in seahorse species</b>	<i>Qi Zhou</i>

## 14:00–15:30

### Terrace 2A

#### S08. part 5/6 | Integrative biogeography: Past, present, future

14:00–14:15 ID: 1263	<b>New insights into Madagascar biogeography through a Hyb-Seq phylogeny of <i>Helichrysum</i> (Compositae)</b>	<i>Carme Blanco-Gavaldà</i>
14:15–14:30 ID: 1196	<b>Population genomics reconstruct complex histories of colonization across archipelagos by lizards</b>	<i>Stéphanie Sherpa</i>
14:30–14:45 ID: 1174	<b>Pleistocene glaciations facilitate genetic divergence and evolution of Himalayan Ibex in India.</b>	<i>Gul Jabin</i>
14:45–15:00 ID: 1806	<b>Using phylogenetic and geographic information to predict future <i>Agrilus</i> host ranges</b>	<i>Elvira Hernandez-Gutierrez</i>
15:00–15:15 ID: 1790	<b>Evaluating the past, present and future effects of climate change on a steppe-specialist raptor</b>	<i>Joan Ferrer Obiol</i>
15:15–15:30 ID: 2267	<b>Bucking the trend of pollinator decline? The genomic signatures of a bumblebee range expansion.</b>	<i>Mairi Knight</i>

## 14:00–15:30

### Terrace 2B

#### S24. part 1/4 | Progress and prospects in adaptation genomics

14:00–14:30 ID: 1285	<b>Adaptation across environmental gradients in <i>Heliconius</i> butterflies</b> <b>Invited speaker</b>	<i>Nicola Nadeau</i>
14:30–14:45 ID: 1058	<b>Detecting frequency-dependent selection using a genetic marker regression of fitness components</b>	<i>Yasuhiro Sato</i>
14:45–15:00 ID: 1408	<b>Investigating local adaptation at multiple spatial scales: a case study of <i>Arabidopsis thaliana</i> in the Alps</b>	<i>Annie Guillaume</i>
15:00–15:15 ID: 1085	<b>Why do structural variants matter in evolutionary genomics? General framework &amp; two empirical cases</b>	<i>Claire Mérot</i>
15:15–15:30 ID: 2324	<b>Detection and application of adaptive loci for conservation and management of Atlantic salmon</b>	<i>Antti Miettinen</i>

**14:00–15:30**

**South Hall 2A**

**S18. part 3/4 | The evolution of behavioural adaptations: Genes, neurons and ecology**

14:00–14:15 ID: 1142	<b>Selection, drift, and constraint and the evolution of mating behaviors in bioluminescent ostracods</b>	<i>Nicholai Hensley</i>
14:15–14:30 ID: 1357	<b>Visual specialisation and explosive expansion of the mushroom bodies in <i>Heliconius</i> butterflies</b>	<i>Stephen Montgomery</i>
14:30–14:45 ID: 1543	<b>Social plasticity in signals and preferences enhances signal-preference co-divergence</b>	<i>Camille Desjonquères</i>
14:45–15:00 ID: 1602	<b>Mate choice in the brain: Species differ in how male traits turn on gene expression in female brains</b>	<i>Janette Boughman</i>
15:00–15:15 ID: 2385	<b>Unveiling the processes that drive divergent behaviour to shared chemistry in <i>Heliconius</i> butterflies</b>	<i>Rachel Blow</i>
15:15–15:30 ID: 2423	<b>The genetic and neural basis of female mate preference in <i>Drosophila</i></b>	<i>Amanda Moehring</i>

**14:00–15:30**

**South Hall 2B**

**S31. part 3/4 | Limits to adaptation: linking evolution, ecology, and genetics**

14:00–14:30 ID: 1896	<b>Limited host availability disrupts the genetic correlation between virulence and transmission</b> <i>Invited speaker</i>	<i>Sara Magalhães</i>
14:30–14:45 ID: 1536	<b>Unraveling the genetic basis of host specific adaptations in polyphagous butterflies</b>	<i>Katharina Schneider</i>
14:45–15:00 ID: 1008	<b>Sexual dimorphism driven by intersexual resource competition: Why is it rare and where to look for it</b>	<i>Xiang-Yi Li Richter</i>
15:00–15:15 ID: 2015	<b>Allometry constrains the evolution of sexual dimorphism in <i>Drosophila</i> across 33 million years</b>	<i>Jacqueline Sztepanacz</i>

**15:30–16:00**

**Coffee break**

**16:00–17:30**

**Panorama Hall**

**S10. part 4/6 | Eco-evolutionary dynamics in changing environments: insights from models, experiments and case studies**

16:00–16:15 ID: 1514	<b>Gone but not forgotten: Entire adaptive radiation retains genomic variation from extinct species</b>	<i>Philine Feulner</i>
16:15–16:30 ID: 1327	<b>Temporal changes in the roles of species sorting and diversification determine community dynamics</b>	<i>Julius Hoffmann</i>
16:30–16:45 ID: 979	<b>Fundamental processes of eco-evolutionary community dynamics</b>	<i>Lynn Govaert</i>
16:45–17:00 ID: 1407	<b>The impact of life history, species ecology and humans on the population decline of extant megafauna</b>	<i>Juraj Bergman</i>
17:00–17:15 ID: 1338	<b>Changes in global avian functional diversity over the last million years</b>	<i>Ryan Germain</i>
17:15–17:30 ID: 1901	<b>Dynamic eco-evolutionary fitness landscapes display complex trajectories and sustained diversity</b>	<i>André Amado</i>

**16:00–17:30**

**South Hall 1A**

**S38. part 4/6 | Molecular evolution and trade-offs in host-pathogen interactions and host immunity**

16:00–16:30 ID: 1946	<b>What can integrative studies of songbird immunity tell us about tolerance and virulence evolution?</b> <i>Invited speaker</i>	<i>Dana Hawley</i>
16:30–16:45 ID: 2138	<b>Patterns of adaptation following serial infection of a specialist fungal pathogen in a novel host</b>	<i>Dinah Parker</i>
16:45–17:00 ID: 1720	<b>Genomics and transcriptomics of <i>D. melanogaster</i> adaptation against oral bacterial infection</b>	<i>Tânia Paulo</i>
17:00–17:15 ID: 1663	<b>Intrinsic and extrinsic early life effects shape responses to infection in European shags</b>	<i>Hannah Ravenswater</i>
17:15–17:30 ID: 2008	<b>Trade-offs in immunity in the metal hyperaccumulator <i>Noccaea caerulea</i></b>	<i>Anja Hoerger</i>

**16:00–17:30**

**South Hall 1B**

**S34. part 2/2 | How have biomarkers improved our understanding of health and the evolution of senescence?**

16:00–16:30 ID: 2012	<b>Life experiences and lifespan: are telomeres an important link?</b> <i>Invited speaker</i>	<i>Britt Heidinger</i>
16:30–16:45 ID: 1079	<b>Gut microbiome variation and senescence within a natural vertebrate population</b>	<i>Sarah Worsley</i>
16:45–17:00 ID: 1612	<b>'Old-age-genes' as ageing markers in termites</b>	<i>Veronika Rau</i>
17:00–17:15 ID: 1728	<b>Do life history strategies affect within-body mosaics of ageing?</b>	<i>Ana A Romero-Haro</i>
17:15–17:30 ID: 2184	<b>The ecological and evolutionary role of early-life telomere length in wild house sparrows</b>	<i>Michael Le Pepke</i>

**16:00–17:30**

**North Hall**

**S02. part 4/4 | Sex chromosome evolution: the canonical model and so much beyond**

16:00–16:15 ID: 2147	<b>Disentangling the complex evolution of sex determination in snakes</b>	<i>Barbora Augstenová</i>
16:15–16:30 ID: 1415	<b>Devil is in the details: Meiotic sex chromosome dynamics in the Marsupial germ line</b>	<i>Laia Marin-Gual</i>
16:30–16:45 ID: 1843	<b>The role of toxic W chromosomes in Haldane's rule</b>	<i>Valentina Peona</i>
16:45–17:00 ID: 985	<b>Distribution, genomic structure and evolution of housefly male-determining loci</b>	<i>Leo W Beukeboom</i>
17:00–17:15 ID: 1751	<b>Assembly and characterization of W chromosome in monarch butterfly (<i>Danaus plexippus</i>)</b>	<i>James Walters</i>
17:15–17:30 ID: 1192	<b>Switching it up: algal insights into the genomic basis of transitions in sex determining systems</b>	<i>Susana Coelho</i>

**16:00–17:30**

**Terrace 2A**

**S08. part 6/6 | Integrative biogeography: Past, present, future**

16:00–16:15 ID: 1316	<b>Evidence of serial depletion within the Baltic herring industry since the Viking Age</b>	<i>Lane Atmore</i>
16:15–16:30 ID: 1451	<b>History of introduction and adaptation of a malaria parasite in South America</b>	<i>Margaux Lefebvre</i>
16:30–16:45 ID: 1931	<b>Parasites of isolated seal populations: patterns in species and genetic diversity</b>	<i>Ludmila Sromek</i>
16:45–17:00 ID: 1147	<b>Genetic and distribution modeling to infer drivers shaping genetic diversity of <i>Ixodes ricinus</i></b>	<i>Annie Guiller</i>
17:00–17:15 ID: 2014	<b>Contrasting patterns of evolutionary diversity in migratory bird species under morphological stasis</b>	<i>Qindong Tang</i>

**16:00–17:30**

**Terrace 2B**

**S24. part 2/4 | Progress and prospects in adaptation genomics**

16:00–16:15 ID: 1339	<b>Metabolomics and other omics point to mechanisms of experimental adaptation to malnutrition</b>	<i>Fanny Cavigliasso</i>
16:15–16:30 ID: 1121	<b>The distribution of fitness effects of spontaneous mutations in <i>Chlamydomonas reinhardtii</i></b>	<i>Peter Keightley</i>
16:30–16:45 ID: 1059	<b>Wavelet characterization of spatial pattern in allele frequency</b>	<i>Jesse Lasky</i>
16:45–17:00 ID: 1189	<b>Rapid adaptation and range expansion in response to agriculture over the last two centuries</b>	<i>Julia Kreiner</i>
17:00–17:15 ID: 1167	<b>The availability of standing genetic variation for rapid adaptation in sticklebacks</b>	<i>Melanie Kirch</i>
17:15–17:30 ID: 1656	<b>The Robinson Crusoe experiment: 30 years of adaptation to a lonely island</b>	<i>Diego Fernando Garcia Castillo</i>

**16:00–17:30**

**South Hall 2A**

**S18. part 4/4 | The evolution of behavioural adaptations: Genes, neurons and ecology**

16:00–16:15 ID: 1143	<b>Ancestral proxy for the vasopressin/oxytocin system functions in male but not female parental care</b>	<i>Ahva Potticary</i>
16:15–16:30 ID: 1303	<b>Dissecting the genetic and molecular basis of the evolutionary loss of paternal care in sticklebacks</b>	<i>Colby Behrens</i>
16:30–17:00 ID: 2471	<b>Evolving new behaviors by tweaking sensory-motor circuits</b> <i>Invited speaker</i>	<i>Lauren A. O'Connell</i>

**16:00–17:30**

**South Hall 2B**

**S31. part 4/4 | Limits to adaptation: linking evolution, ecology, and genetics**

16:00–16:15 ID: 1118	<b>Divergently evolved yeast generate hybrid offspring resilient to a large range of environments</b>	<i>Ciaran Gilchrist</i>
16:15–16:30 ID: 1280	<b>Sexual reproduction constrains adaptation in outcrossed populations of <i>Chlamydomonas reinhardtii</i></b>	<i>Felix Moerman</i>
16:30–16:45 ID: 1531	<b>Polygenic adaptation to a new environment under self-fertilisation</b>	<i>Matthew Hartfield</i>
16:45–17:00 ID: 1625	<b>Short-term adaptation with epistasis from standing variation in recombining populations</b>	<i>Juan Li</i>
17:00–17:15 ID: 1139	<b>Exploring the limits of thermal tolerance in an Antarctic bacterium</b>	<i>Macarena Toll-Riera</i>
17:15–17:30 ID: 2302	<b>Condition-dependence modulates sexual conflict and its demographic consequences</b>	<i>Ewan Flinham</i>

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**17:30–17:45**

**Terrace 2B**

17:30–17:45 **Promoting scientific literacy in Evolution through citizen science practices in high schools**  
ID: 2473

*Roberto Torres*

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**17:30–18:00**

**Break**

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**18:00–20:00**

**Congress Hall Foyer**

**Poster session 2**

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Thursday

**Friday, August 19, 2022**

**09:00–10:30**

**Panorama Hall**

**S10. part 5/6 | Eco-evolutionary dynamics in changing environments: insights from models, experiments and case studies**

09:00–09:30 ID: 1834	<b>What limits a species' range?</b> <i>Invited speaker</i>	<i>Nicholas Barton</i>
09:30–09:45 ID: 1307	<b>Genetic load and extinction in peripheral populations – eco-evolutionary dynamics</b>	<i>Oluwafunmilola Olusanya</i>
09:45–10:00 ID: 1350	<b>How do species ranges respond to the effects of counteracting environmental gradients?</b>	<i>Matteo Tomasini</i>
10:00–10:15 ID: 1922	<b>From genotypes to demography: eco-evolutionary dynamics in Atlantic salmon</b>	<i>Yann Czorlich</i>
10:15–10:30 ID: 1660	<b>How does radioactivity impact the evolution of tree frogs in the Chernobyl exclusion zone?</b>	<i>Clément Car</i>

**09:00–10:30**

**South Hall 1A**

**S38. part 5/6 | Molecular evolution and trade-offs in host-pathogen interactions and host immunity**

09:00–09:30 ID: 1640	<b>The causes of pathogen-mediated balancing selection</b> <i>Invited speaker</i>	<i>Lars Råberg</i>
09:30–09:45 ID: 1258	<b>What can we learn from typing MHC genes and haplotypes from 22,000 chickens?</b>	<i>Jim Kaufman</i>
09:45–10:00 ID: 1598	<b>MHC diversity does not confer fitness advantage in an urban bird</b>	<i>Piotr Minias</i>
10:00–10:15 ID: 1655	<b>Repeatability and transgenerational relative expression of MHC-I genes in the great reed warbler</b>	<i>Samantha Mellinger</i>
10:15–10:30 ID: 2246	<b>Influence of major histocompatibility complex genes on the reproductive success of wild barn owl</b>	<i>Diana Ferreira</i>

**09:00–10:30**

**South Hall 1B**

**S40. part 07/10 | Open symposium**

09:00–09:15 ID: 1095	<b>Context-dependence of pre- and postcopulatory sexual selection in <i>Drosophila</i> <i>prolongata</i></b>	<i>Alessio De Nardo</i>
09:15–09:30 ID: 1297	<b>Sexually-selected weaponry and the risk of extinction under increasing temperature</b>	<i>Jacek Radwan</i>
09:30–09:45 ID: 1328	<b>The role of associative learning in the evolution of sexual preferences</b>	<i>Magdalena Herdegen-Radwan</i>
09:45–10:00 ID: 2032	<b>Sexual selection in females and the evolution of polyandry</b>	<i>Tim Janicke</i>
10:00–10:15 ID: 2163	<b>Is sexual selection widespread across angiosperm species?</b>	<i>Iain Moodie</i>
10:15–10:30 ID: 2325	<b>Attractive males have more male offspring, but why are results so heterogeneous?</b>	<i>Balázs Rosivall</i>

**09:00–10:30**

**North Hall**

**S40. part 08/10 | Open symposium**

09:00–09:15 ID: 1099	<b>Nutrigonometry: bringing geometry into nutritional ecology</b>	<i>Juliano Morimoto</i>
09:15–09:30 ID: 1217	<b>Fungal cultivars altruistically recycle their own contents in nutritional rewards for farming ants</b>	<i>Caio Leal-Dutra</i>
09:30–09:45 ID: 1954	<b>Human, dietary and microbiome DNA from a 7,200 year masticated plant material from North America</b>	<i>Thomaz Pinotti</i>
09:45–10:00 ID: 2028	<b>Genetically-mediated diet acquisition helps to maintain phenotypic diversity among Atlantic salmon</b>	<i>Ronan James O'Sullivan</i>
10:00–10:15 ID: 1623	<b>Population-bottleneck selects some but not all social traits in social bacterium <i>M. xanthus</i></b>	<i>Jyotsna Kalathera</i>
10:15–10:30 ID: 2061	<b>Nutrition on imbalanced diets: Evolutionary strategies across different ant species</b>	<i>Lina Pedraza</i>

**09:00–10:30**

**Terrace 2A**

**S25. part 2/3 | The positives and negatives of whole genome duplication: synthesizing polyploid evolution across organisms and disciplines**

09:00–09:30 ID: 2464	<b>Whole genome duplications and the evolution of disease in vertebrates</b> <i>Invited speaker</i>	<i>Herve Isambert</i>
09:30–09:45 ID: 1601	<b>Evolution of diploid and allopolyploid <i>Camelina</i> genomes was accompanied by chromosome shattering</b>	<i>Terezie Mandakova</i>
09:45–10:00 ID: 1178	<b>Rapid parallel adaptation in autopolyploid <i>Arabidopsis</i> is dominated by recruitment of shared alleles</b>	<i>Veronika Konecna</i>
10:00–10:15 ID: 1685	<b>Polyploid <i>Arabidopsis</i> inherit parental traits <i>in natura</i> as shown by deep-learning and soil analyses</b>	<i>Kentaro Shimizu</i>
10:15–10:30 ID: 1034	<b>Exploring the effects of whole genome duplication on structural variation using pangenomics</b>	<i>Emma Curran</i>

**09:00–10:30**

**Terrace 2B**

**S36. part 1/2 | Evolution of antibiotic resistance: from lab to clinic**

09:00–09:30 ID: 2468	<b>Within-patient evolution of plasmid-mediated antimicrobial resistance</b> <i>Invited speaker</i>	<i>Alvaro San Millan</i>
09:30–09:45 ID: 1259	<b>Stochasticity and cooperative effects in the establishment of antibiotic resistance mutations</b>	<i>Suman Das</i>
09:45–10:00 ID: 1495	<b>Variation of costs of mobile antibiotic resistance genes on their dissemination</b>	<i>Huei-Yi LAI</i>
10:00–10:15 ID: 2235	<b>Eco-evo feedbacks shape the local fitness landscape of an antibiotic degrading enzyme</b>	<i>Philip Ruelens</i>
10:15–10:30 ID: 2096	<b>Density-associated mutation rate plasticity and the evolution of antimicrobial resistance</b>	<i>Rok Krasovec</i>

## 09:00–10:30

### South Hall 2A

#### S21. part 1/2 | Epigenetics goes wild! Epigenetic diversity and the evolutionary potential of wild populations

09:00–09:30 ID: 2416	<b>Less can be more: Understanding the adaptive role of epigenetics using naturally inbred fish</b> <i>Invited speaker</i>	<i>Sofia Consuegra</i>
09:30–09:45 ID: 1986	<b>Differential methylation and genetic diversity go hand-in-hand in divergent stickleback populations</b>	<i>James Ord</i>
09:45–10:00 ID: 1312	<b>DNA methylation in the wild: stable environmental signature across clones of the wild strawberry</b>	<i>Iris Sammarco</i>
10:00–10:15 ID: 2125	<b>The methylome driven CpG landscape of protein coding DNA in vertebrates</b>	<i>Toni Gossmann</i>
10:15–10:30 ID: 1223	<b>Epigenetic divergence and phenotypic plasticity in the rapid speciation of East African cichlid fish</b>	<i>Audrey Putman</i>

## 09:00–10:30

### South Hall 2B

#### S24. part 3/4 | Progress and prospects in adaptation genomics

09:00–09:30 ID: 1227	<b>Mapping genomic barriers to gene flow</b> <i>Invited speaker</i>	<i>Konrad Lohse</i>
09:30–09:45 ID: 1441	<b>Range expansion and its effect on linked neutral genetic diversity</b>	<i>Flávia Schlichta</i>
09:45–10:00 ID: 1545	<b>Hybridization dynamics and extensive introgression in the <i>Daphnia longispina</i> species complex</b>	<i>Jana Nickel</i>
10:00–10:15 ID: 1547	<b>Using pool-seq and approximate Bayesian computation to differentiate scenarios of ecotype formation</b>	<i>João Carvalho</i>
10:15–10:30 ID: 1098	<b>Empirical evidence for positive selection that is not adaptive evolution</b>	<i>Thibault Latrille</i>

## 10:30–11:00

### Coffee break

## 11:00–12:30

### Panorama Hall

#### S10. part 6/6 | Eco-evolutionary dynamics in changing environments: insights from models, experiments and case studies

11:00–11:15 ID: 1308	<b>Indirect effects of abiotic conditions slow down eco-evolutionary dynamics of host and virus</b>	<i>Lutz Becks</i>
11:15–11:30 ID: 1224	<b>Indirect evolutionary facilitation in a predator-prey system facing an environmental perturbation</b>	<i>Tom Réveillon</i>
11:30–11:45 ID: 2300	<b>Experimentally evaluating the impacts of immigration on adaptation to a novel environment</b>	<i>Lily F. Durkee</i>
11:45–12:00 ID: 1556	<b>The effect of bottleneck size and antibiotic-induced selection on antibiotic resistance evolution</b>	<i>Ernesto Berríos-Caro</i>
12:00–12:15 ID: 1007	<b>Towards the prediction of the epidemiological dynamics of <i>E.coli</i> during infection by phages T7</b>	<i>Yoann Anciaux</i>
12:15–12:30 ID: 2145	<b>Life-history evolution in response to foraging risk, modeled for Northeast arctic cod (<i>Gadus morhua</i>)</b>	<i>Henrik Høiberg Jessen</i>

## 11:00–12:30

### South Hall 1B

#### S40. part 09/10 | Open symposium

11:00–11:15 ID: 1094	<b>Evolution of the avian forelimb and implications for flight</b>	<i>Olivia Price</i>
11:15–11:30 ID: 1202	<b>Milk, seminal fluid, eggs, feces... Evolution and impact of socially transferred materials</b>	<i>Sanja Hakala</i>
11:30–11:45 ID: 1493	<b>Opsin gene expression changes with development in ray-finned fishes (Actinopterygii)</b>	<i>Nik Lupše</i>
11:45–12:00 ID: 1610	<b>Evolution of territoriality in hyliid frogs: ecology, morphology and lineage diversification</b>	<i>Ricardo Luría Manzano</i>
12:00–12:15 ID: 1784	<b>Evolutionary dynamics of pigmentary grey and non-iridescent structural colour blue in Tanagers</b>	<i>Frane Babarovic</i>
12:15–12:30 ID: 1815	<b>Species-level timeline of mammal evolution integrating phylogenomic data</b>	<i>Sandra Álvarez-Carretero</i>

## 11:00–12:30

### North Hall

#### S40. part 10/10 | Open symposium + presentations of Stearns Prize winners for the best paper published in *Journal of Evolutionary Biology*

11:00–11:15 ID: 1757	<b>Selection on males increases population viability <i>Stearns Prize winner</i></b>	<i>Tom Keaney</i>
11:15–11:30 ID: 2476	<b>Phenotypic plasticity drives phenological changes in a Mediterranean blue tit population <i>Stearns Prize winner</i></b>	<i>Juliette Biquet</i>
11:30–11:45 ID: 1630	<b>The impacts of publication bias on ecology and evolutionary biology</b>	<i>Shinichi Nakagawa</i>
11:45–12:00 ID: 1700	<b>Hamilton's force of selection during ontogenesis</b>	<i>Christoph Netz</i>
12:00–12:15 ID: 2373	<b>Ecological and evolutionary interactions of divergent lineages of an amphipod species complex</b>	<i>Adam Petrusek</i>
12:15–12:30 ID: 1281	<b>Genomic evidence of a sexually selected trait capturing and purging genetic load</b>	<i>Sebastian Chmielewski</i>

## 11:00–12:30

### Terrace 2A

#### S25. part 3/3 | The positives and negatives of whole genome duplication: synthesizing polyploid evolution across organisms and disciplines

11:00–11:30 ID: 2391	<b>Genomic basis of convergent adaptations to whole genome duplications <i>Invited speaker</i></b>	<i>Magdalena Bohutinska</i>
11:30–11:45 ID: 1746	<b>On the evolutionary implications of neopolyploidization mechanisms in <i>Nasonia vitripennis</i></b>	<i>Saminathan Sivaprakasham Murugesan</i>
11:45–12:00 ID: 2408	<b>Population genomics of Australian burrowing frogs <i>Neobatrachus</i> reveal adaptation to polyploidy</b>	<i>Jozefien Van de Velde</i>
12:00–12:15 ID: 1060	<b>Identifying subgenomes in non-model organisms using orthology and fossil transposable elements</b>	<i>José Cerca</i>
12:15–12:30 ID: 1525	<b>Fixation dynamics of beneficial alleles in prokaryotic polyploid chromosomes and plasmids</b>	<i>Mario Santer</i>

## 11:00–12:30

### South Hall 2A

#### S21. part 2/2 | Epigenetics goes wild! Epigenetic diversity and the evolutionary potential of wild populations

11:00–11:30 ID: 1988	<b>Linking epigenetics and biological conservation: Toward a conservation epigenetics perspective</b> <i>Invited speaker</i>	<i>Olivier Rey</i>
11:30–11:45 ID: 1322	<b>Does epigenetic diversity contribute to the invasion of Japanese knotweeds?</b>	<i>Isolde van Riemsdijk</i>
11:45–12:00 ID: 1323	<b>Quantifying the adaptive potential of sea turtles in a warming world via genome-wide DNA methylation</b>	<i>Eugenie (Charley) Yen</i>
12:00–12:15 ID: 1687	<b>Convergent DNA methylation changes associated with agriculture in ancient and modern-day humans</b>	<i>Mehmet Somel</i>
12:15–12:30 ID: 1519	<b>Variation in DNA methylation in the great tit (<i>Parus major</i>) is largely determined by genetic effects</b>	<i>Bernice Sepers</i>

## 11:00–12:30

### South Hall 2B

#### S24. part 4/4 | Progress and prospects in adaptation genomics

11:00–11:15 ID: 1675	<b>Stabilizing selection promotes the emergence of non-additive variance in gene expression</b>	<i>Juliette de Meaux</i>
11:15–11:30 ID: 1707	<b>Evolutionary genomics and dynamics of adaptation to complex environments in <i>Saccharomyces cerevisiae</i></b>	<i>Alexandre Rêgo</i>
11:30–11:45 ID: 1769	<b>A lizards' tail: the genomics of island adaption</b>	<i>Maria Novosolov</i>
11:45–12:00 ID: 1991	<b>Natural variation in <i>Drosophila</i> shows weak pleiotropic effects</b>	<i>Christian Schlötterer</i>
12:00–12:15 ID: 2109	<b>Divergent selection, linked deleterious mutations and gene flow: diploid vs hemizygous chromosomes</b>	<i>Vitor Sousa</i>
12:15–12:30 ID: 1155	<b>Identifying the nature of adaptation to micronutrients in modern humans</b>	<i>Jasmin Rees</i>

## 11:00–12:45

### South Hall 1A

#### S38. part 6/6 | Molecular evolution and trade-offs in host-pathogen interactions and host immunity

11:00–11:15 ID: 1882	<b>MHC class II proteins mediate susceptibility and resistance to coronavirus infections in bats</b>	<i>Dominik Schmid</i>
11:15–11:30 ID: 1883	<b>MHC and sex bias: shaping of the systemic T cell repertoire in three-spined stickleback fish</b>	<i>Ana Teles</i>
11:30–11:45 ID: 1925	<b>Trade-offs constraining MHC gene number expansion: beyond simple TCR depletion hypothesis</b>	<i>Magdalena Migalska</i>
11:45–12:00 ID: 1413	<b>Adaptive immune response selects for increased body size</b>	<i>Maciej Ejsmond</i>
12:00–12:15 ID: 1434	<b>Evolution of germline repair and mutation rates under strong pathogen selection</b>	<i>Basabi Bagchi</i>
12:15–12:30 ID: 1048	<b>A game-theoretical description of defense and counter defense in host-pathogen interactions</b>	<i>Shalu Dwivedi</i>
12:30–12:45 ID: 1200	<b>Host immunity adaptation to SIV across chimpanzee populations</b>	<i>Aida Andrés</i>

**11:00–12:45**

**Terrace 2B**

**S36. part 2/2 | Evolution of antibiotic resistance: from lab to clinic**

11:00–11:30 ID: 1865	<b>In vitro counter-selection of antibiotic resistance with phage-antibiotic combination therapy</b> <i>Invited speaker</i>	<i>Tatiana Dimitriu</i>
11:30–11:45 ID: 1537	<b>Population size, mutation bias and the evolution of antibiotic resistance</b>	<i>Joachim Krug</i>
11:45–12:00 ID: 1000	<b>The bacterial capsule: a gatekeeper of horizontal gene transfer?</b>	<i>Matthieu Haudiquet</i>
12:00–12:15 ID: 1703	<b>High potency of sequential therapy with only <math>\beta</math>-lactam antibiotics</b>	<i>Aditi Batra</i>
12:15–12:30 ID: 1209	<b>Evolution of antibiotic resistance under sequential therapy</b>	<i>Christin Nyhoegen</i>
12:30–12:45 ID: 1842	<b>The effects of antibiotic exposure on the ecology and evolution of <i>in vitro</i> gut microbiome models</b>	<i>Joseph Pennycook</i>

**12:30–13:45**

**Lunch break**

**12:45–13:45**

**Terrace 2A**

**Scientist Rebellion introduction and networking meeting**

**13:45–14:40**

**Congress Hall**

**ESEB Membership Meeting**

**14:40–14:45**

**Break**

**14:45–15:20**

**Congress Hall**

**Presidential address (Astrid Groot)**

14:45–15:20 ID: 2474	<b>ESEB Presidential address</b>	<i>Astrid T. Groot</i>
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**15:20–15:25**

**Break**

**15:25–16:00**

**Congress Hall**

**Distinguished Fellow talk (Roger Butlin)**

15:25–16:00 ID: 2475	<b>40 years of speciation research</b>	<i>Roger Butlin</i>
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**16:00–16:10**

**Coffee break**

**16:10–17:10**

**Congress Hall**

**Talks by John Maynard Smith Prize winners**

16:10–16:30 ID: 2477	<b>Reproducibility of antibiotic resistance evolution</b>	<i>Camilo Barbosa</i>
16:30–16:50 ID: 2478	<b>From patterns to processes: towards a mechanistic understanding of the human microbiome</b>	<i>Stefany Moreno Gamez</i>
16:50–17:10 ID: 2479	<b>What does evolution have to say about ecosystem resilience?</b>	<i>Catalina Chaparro Pedraza</i>

**17:10–17:30**

**Congress Hall**

**Closing ceremony**

**19:00–23:30**

**Congress Hall**

**Conference dinner (restaurant Občanská plovárna)**

# Floor plans

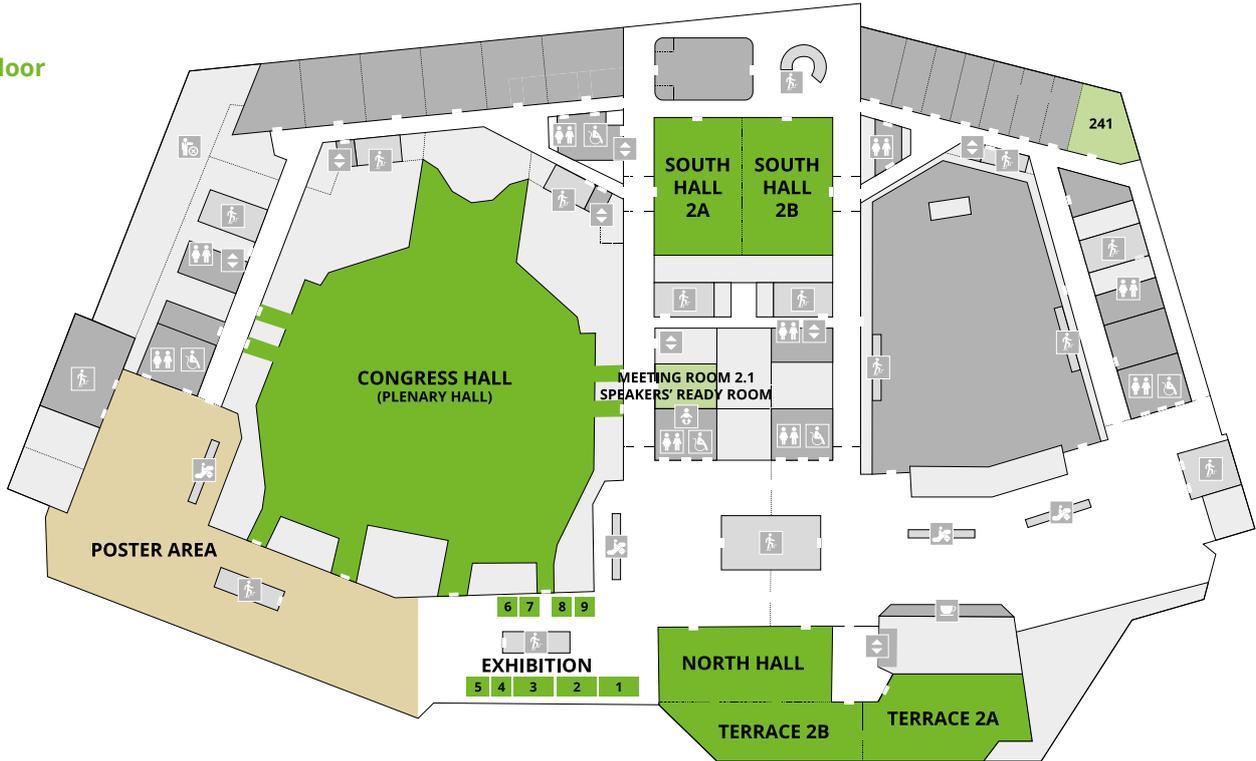
## Ground floor



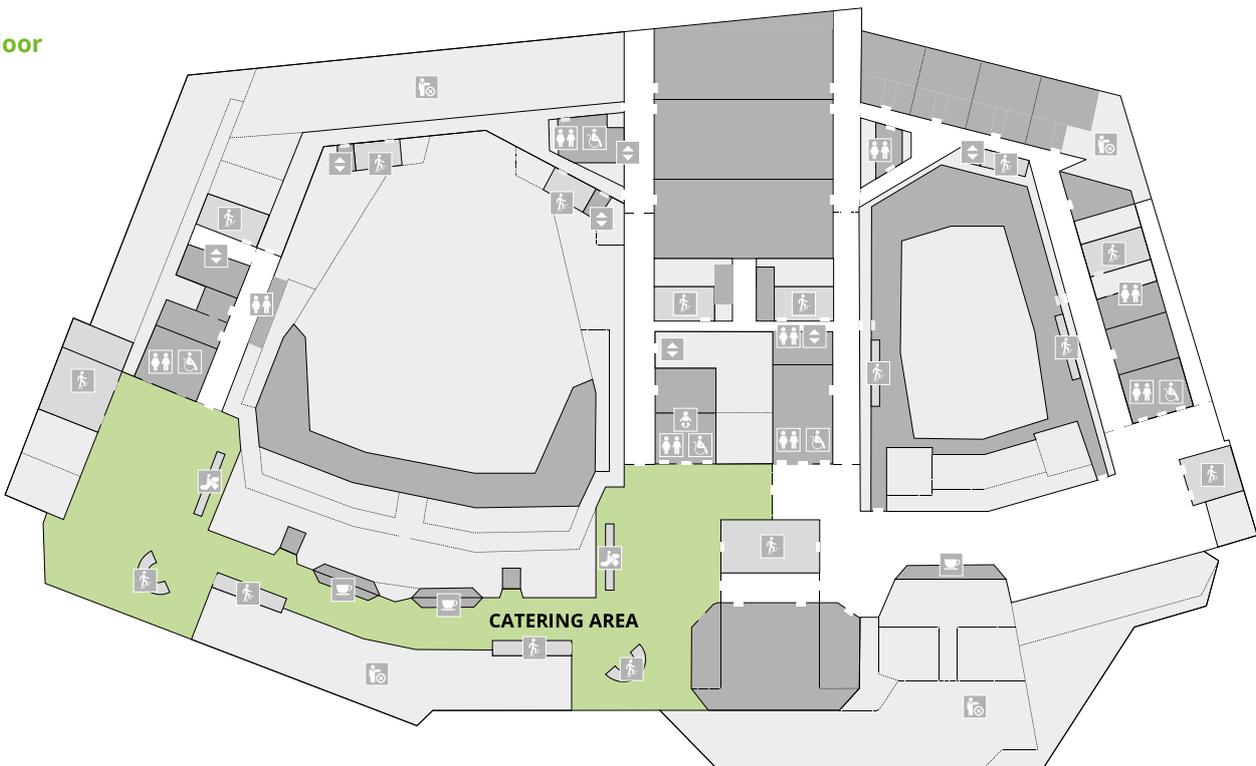
## 1<sup>st</sup> floor



2<sup>nd</sup> floor



3<sup>rd</sup> floor





# PHILOSOPHICAL TRANSACTIONS B

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## Influential themed journal issues across the life sciences

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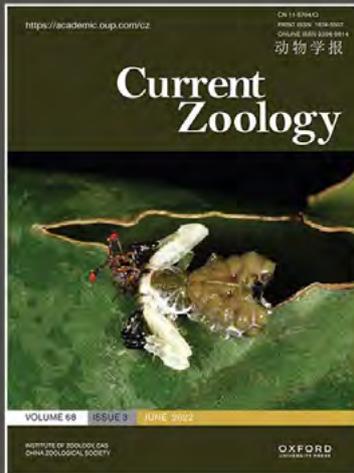
*Challenging the paradigm in sex chromosome evolution: empirical and theoretical insights with a focus on vertebrates* edited by Lukáš Kratochvíl and Matthias Stöck.

*The ecology and evolution of synchronized seed production in plants* edited by Mario Pesendorfer, Davide Ascoli, Michał Bogdziewicz, Andrew Hacket-Pain, Ian Pearse and Giorgio Vacchiano.

*Species' ranges in the face of changing environments* edited by Marina Rafajlovic, Jake Alexander, Roger Butlin and Kerstin Johannesson.

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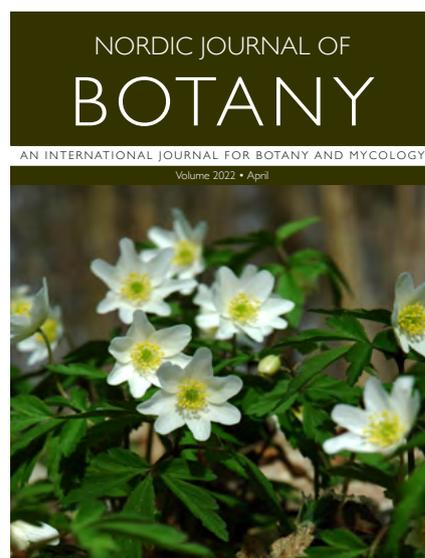
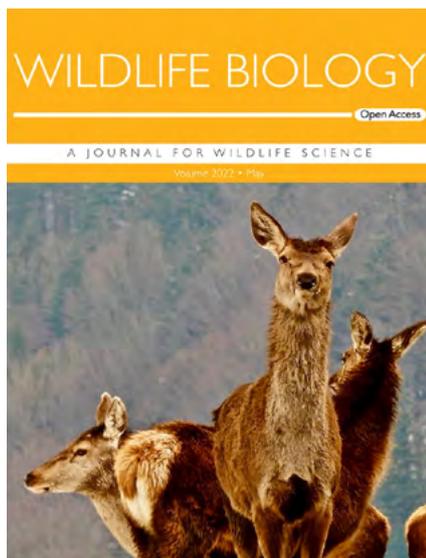
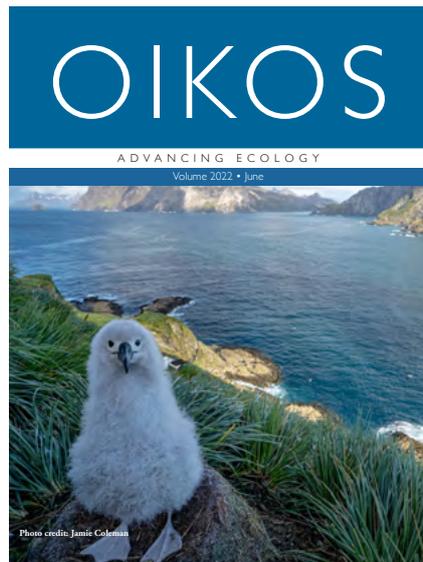
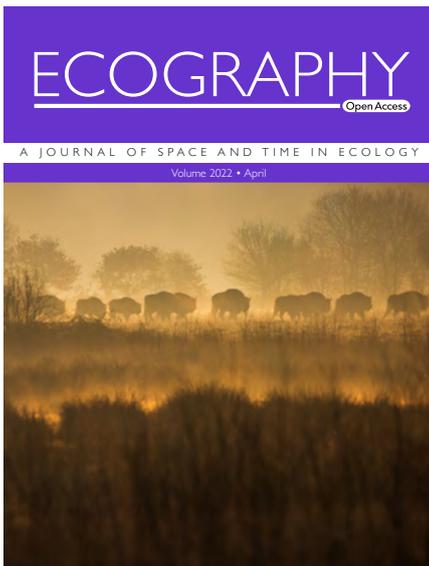
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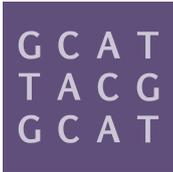
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# Exhibition

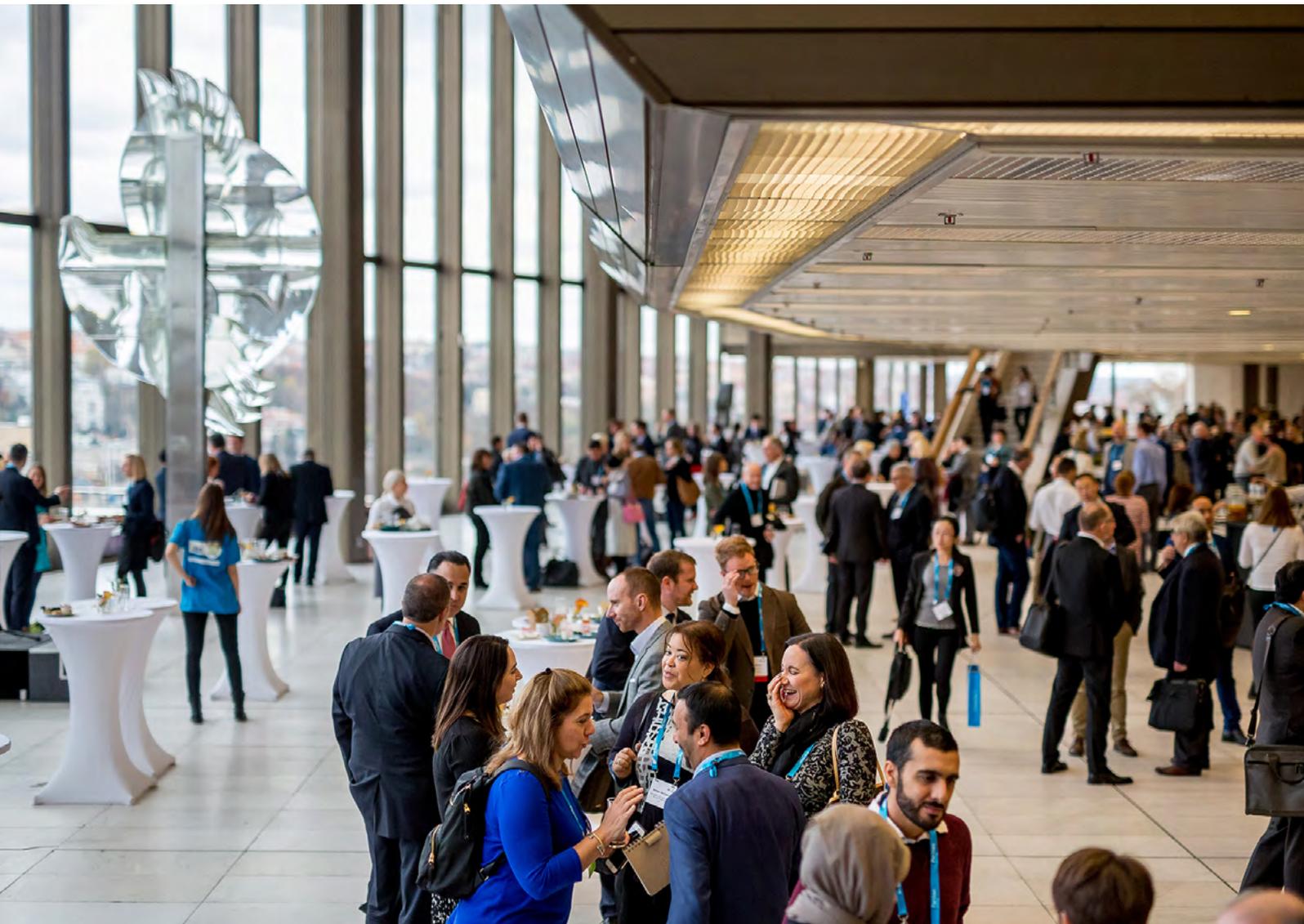
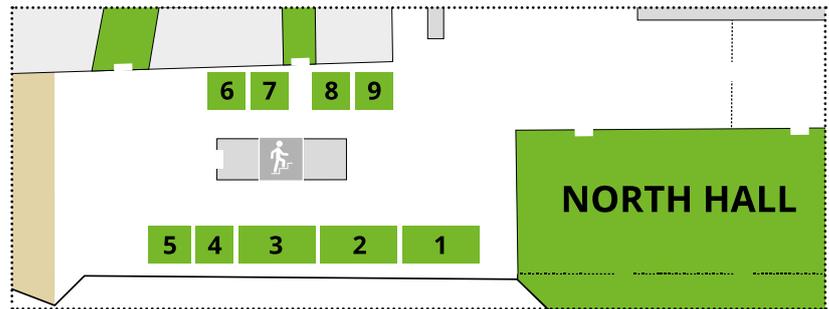
The exhibition is located on the 2<sup>nd</sup> floor of the Congress venue.

### Exhibition hours:

<b>Monday, August 15, 2022</b>	09:00–17:30
<b>Tuesday, August 16, 2022</b>	09:00–17:30
<b>Thursday, August 17, 2022</b>	09:00–13:30
<b>Friday, August 18, 2022</b>	09:00–17:30
<b>Saturday, August 19, 2022</b>	09:00–16:30

### List of Exhibitors

- 1 Current Zoology
- 2 Royal Society Publishing
- 3 Nordic Society Oikos
- 4 Nzytech
- 5 BGI Genomics
- 6 Oxford University Press
- 7 Biomarker Technologies
- 8 ESEB-JEB
- 9 EvoKE



# List of Posters

## Partner of the Poster Session



## Partners of the Student Best Poster Award



### Poster 1 (ID 2480)

**Variation in wild-derived and classical laboratory strains of the house mouse model organism**

Jaroslav Piálek

### S01. Tug of war between the sexes: The transcriptomic architecture of sex-linked traits

#### Poster 2 (ID 1219)

**Evolutionary consequences of sex loss on male fitness and sex-biased gene expression in pea aphids**

Hélène Defendini

#### Poster 3 (ID 1277)

**Mechanisms driving development of male-larger sexual size dimorphism in a lizard**

Brandon Meter

#### Poster 4 (ID 1484)

**Sexual selection in the red seaweed *Gracilaria gracilis***

Myriam Valero

#### Poster 5 (ID 1795)

**Brain transcriptome architecture in a species with sex reversal: a three sex chromosome orchestra**

Louise Heitzmann

#### Poster 6 (ID 1836)

**The evolutionary potential of brown trout in the context of interacting anthropogenic stressors**

Hugo Palejowski

#### Poster 7 (ID 2081)

**Sex-biased genes and their role in speciation in the scarce swallowtails**

Sam Ebdon

#### Poster 8 (ID 2086)

**How many alleles and transcripts have sex-specific fitness effects in *Drosophila*?**

Luke Holman

#### Poster 9 (ID 2090)

**Modelling *Wolbachia*-induced cytoplasmic incompatibility in oak gallwasps with cyclic parthenogenesis**

Sonja Grath

#### Poster 10 (ID 2205)

**A gene copy number arms across a species barrier**

Miloš Macholán

### S02. Sex chromosome evolution: the canonical model and so much beyond

#### Poster 11 (ID 986)

**Young X chromosome evolution**

Andrea Mrnjavac

#### Poster 12 (ID 1070)

**Neo-sex chromosome evolution in morabine grasshoppers**

Suvratha Jayaprasad

**Poster 13 (ID 1286)**

**No evidence for faster evolution on Z chromosome in chameleons of the genus *Furcifer***

*Lucija Andjel*

---

**Poster 14 (ID 1420)**

**Neo-faster-Z: chromosome fusion facilitates adaptation on a butterfly sex chromosome**

*Andrew Mongue*

---

**Poster 15 (ID 1471)**

**Dynamics of transposable element accumulation in non-recombining regions**

*Marine Duhamel*

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**Poster 16 (ID 1473)**

**Divergent evolution of genetic sex determination mechanisms along environmental gradients**

*Martijn A. Schenkel*

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**Poster 17 (ID 1474)**

**Mechanism and drivers of sex chromosome turnover in Atlantic salmon**

*Nicola Barson*

---

**Poster 18 (ID 1516)**

**Sex chromosome evolution in the plant genus *Mercurialis***

*Jörn Frederik Gerchen*

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**Poster 19 (ID 1569)**

**Effect of inversions on suppression of recombination and sex chromosome evolution in fission yeast**

*Cristina Berenguer Millanes*

---

**Poster 20 (ID 1641)**

**Convergence and divergence in the evolution of stickleback sex chromosomes**

*Daniel Jeffries*

---

**Poster 21 (ID 1645)**

**Scarlet tide – the first report of sex chromosomes in red algae**

*Agnieszka Lipinska*

---

**Poster 22 (ID 1693)**

**ZW sex-chromosome evolution and contagious parthenogenesis in *Artemia* brine shrimp**

*Marwan Elkrewi*

---

**Poster 23 (ID 1731)**

**Convergence evolution of a dosage compensation system**

*Mariela Tenorio*

---

**Poster 24 (ID 1760)**

**Sex-linked genomic variation among populations of an intertidal snail, *Littorina saxatilis***

*Amin Ghane*

---

**Poster 25 (ID 1820)**

**Chromosome marker suggests rearrangements in sex chromosomes in Brazilian complex species of frogs**

*Bruno Cansanção Silva*

---

**Poster 26 (ID 1821)**

**Polymorphism of a satDNA in a zone of secondary contact of lineages with distinct sex chromosomes**

*Lucas Henrique Bonfim Souza*

---

**Poster 27 (ID 1871)**

**Sex chromosome discovery and dosage compensation mechanism in the Cuban wood snake**

*Amy Wilson*

---

**Poster 28 (ID 1937)**

**The ant-cricket, a new model of sex chromosome evolution?**

*Vincent Mérel*

---

**Poster 29 (ID 1955)**

**Variations on a background of conservation of sex chromosomes in lacertids**

*Ana M Gonzalez-Tizon*

---

**Poster 30 (ID 2033)**

**Investigating the sex locus in the haplodiploid Argentine ant**

*Qiaowei Pan*

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**Poster 31 (ID 2176)**

**Cytogenetic analysis of the members of the snake genera *Cylindrophis*, *Eryx* and *Python***

*Tomáš Charvát*

---

**Poster 32 (ID 2210)**

**A supergene underlies social polymorphism in the desert ant**

*Aparna Lajmi*

**Poster 33 (ID 2215)**

**Identification of ZZ/ZW sex chromosomes in the Madagascan leaf-tail geckos**

*Eleonora Pensabene*

**Poster 34 (ID 2260)**

**Evolution of sex chromosomes in chameleons**

*Sofia Mazzoleni*

**Poster 35 (ID 2276)**

**Discovery and ecological impact of minute sex chromosomes in *Sphagnum* (peat moss)**

*Adam Healey*

**Poster 36 (ID 2283)**

**Neo-sex chromosome evolution in butterflies of the tribe Danaini**

*Pablo Mora Ruiz*

**Poster 37 (ID 2303)**

**Evolution of sex chromosomes in pholcid spiders (Araneae: Pholcidae)**

*Jiří Král*

**Poster 38 (ID 2320)**

**Sex chromosomes expression evolution in *Drosophila* spp. spermatogenesis**

*Camila Avelino*

**Poster 39 (ID 2342)**

**Sex determination in the oribatid mite *Hermannia gibba***

*Svenja Wulsch*

**Poster 40 (ID 2352)**

**The S-locus supergene controlling heterostyly in primroses originated via stepwise duplications**

*Giacomo Potente*

**Poster 41 (ID 2375)**

**Linking gametologue evolution to human sex differences in gene expression and disease**

*Alex DeCasien*

**Poster 42 (ID 2448)**

**De-novo genome assembly of the dwarf willow *Salix herbacea* reveals the sex-linked region**

*Xiaomeng Mao*

**S03. Diversity and evolution in sperm, ova, and other primary reproductive traits**

**Poster 43 (ID 993)**

**Macroclimatic and maternal effects on the evolution of reproductive traits in lizards**

*Dylan Padilla*

**Poster 44 (ID 1016)**

**Sperm morphology and reproductive success in the hermaphroditic flatworm, *Macrostomum lignano***

*Santhosh Santhosh*

**Poster 45 (ID 1043)**

**Impact of thermal stress from hot exposure events during heatwaves on reproduction in a model insect**

*Ramakrishnan Vasudeva*

**Poster 46 (ID 1102)**

**Selection on sperm size in response to promiscuity and variation in female sperm storage organs**

*Emily Cramer*

**Poster 47 (ID 1249)**

**Comparative proteomics of the perivitelline layer - the site of avian sperm-egg interaction**

*Emma Whittington*

**Poster 48 (ID 1347)**

**How does social environment affect oviposition decisions?**

*Emily Churchill*

**Poster 49 (ID 1359)**

**Mitochondrial DNA copy number variation in birds and its relationship to sperm midpiece length**

*Laima Bagdonaitė*

**Poster 50 (ID 1783)**

**How reproductive modes influence the egg size/clutch size trade-offs in salamanders?**

*Balázs Vági*

**Poster 51 (ID 2056)**

**Effects of egg size and carotenoid content on juvenile growth and survival in brown trout**

*Jonas Bylemans*

**Poster 52 (ID 2157)**

**Sperm competition in lampreys**

*Nolwenn Decanter*

**Poster 53 (ID 2194)**

**Influence of storage time on the DNA integrity and viability of spermatozoa of the spider crab**

*Andres Martinez-Lage*

**Poster 54 (ID 2204)**

**Comparative analysis of heteromorphic sperm in the gastropod genus *Littorina***

*Luisa Kumpitsch*

**Poster 55 (ID 2390)**

**The gene regulation response to insemination in the reproductive system of the ant**

*Yue Shi*

**S04. The evolutionary ecology of mating systems**

**Poster 56 (ID 1054)**

**Unusually long parental care in Malagasy shorebirds**

*Claire Tanner*

**Poster 57 (ID 1160)**

**Androgenesis to induce polyploidy and hybridization in the invasive *Corbicula* clam genus**

*Martin Vastrade*

**Poster 58 (ID 1188)**

**A model of stable trioecy and its transition toward and from dioecy in metapopulations**

*Mai Thu Nguyen*

**Poster 59 (ID 1320)**

**Selection for male stamina can help explain costly displays with cost-minimizing female choice**

*Viktor Kovalov*

**Poster 60 (ID 1336)**

**Genetic basis and genomic consequences of loss of distyly in *Linum***

*Juanita Gutiérrez-Valencia*

**Poster 61 (ID 1356)**

**The genetic basis of asexuality in *Artemia parthenogenetica***

*Gayathri Venkatraman*

**Poster 62 (ID 1444)**

**Theoretical predictions on the effects of self-fertilisation on speciation**

*Lucas Marie-Orleach*

**Poster 63 (ID 1469)**

**The complex pathway of sympatric speciation by floral mimicry**

*Pablo Guerrero*

**Poster 64 (ID 1723)**

**Reducing genetic load via sexual selection: the role of environmental variance in male mating success**

*Maximilian Tschol*

**Poster 65 (ID 1787)**

**Demographic history and selection in association with mating system variation in *Arabis alpina***

*Panagiotis-Ioannis Zervakis*

**Poster 66 (ID 1817)**

**Multiple mating rescues offspring sex ratio but not number in a haplodiploid exposed to heat stress**

*Sofia Costa*

**Poster 67 (ID 1960)**

**Network Theory to elucidate the interplay between sexual selection and metapopulation structure**

*David Pablo Quevedo Colmena*

**Poster 68 (ID 2164)**

**Unilateral adaptation – how trichomes change pollinators' behavior in sexually deceptive flowers**

Noa L. A. Schwabe

**Poster 69 (ID 2189)**

**The development of a decoy: spatial and temporal map of *Ophrys sphegodes* labellum**

Mattia Alessandrini

**Poster 70 (ID 2256)**

**Male mate choice evolves as a by-product of adaptation to larval crowding in *Drosophila melanogaster***

Harisankar Durga

**Poster 71 (ID 2293)**

**Genetic underpinnings of species-specific sexual signaling mechanisms in parasitoid wasps**

Weizhao Sun

**Poster 72 (ID 2337)**

**The genetic basis of hybrid incompatibilities in the Arctic plant *Cochlearia groenlandica***

Marie Kristine Brandrud

**Poster 73 (ID 2371)**

**Sexual dimorphism in lacrimal and salivary glands of the wild house mice**

Barbora Vošlajerová Bímová

**Poster 74 (ID 2389)**

**The evolution of sex roles: new insights from individual-based simulations**

Xiaoyan Long

**Poster 75 (ID 2415)**

**Evidence of environment – dependent inbreeding depression in a mixed mating plant**

Mark Walker

**Poster 76 (ID 2417)**

**The effect of recombination on the evolutionary dynamics of populations evolving on neutral networks**

Alexander Klug

**Poster 77 (ID 2434)**

**The role of antennation in mating behavior in parasitoid wasp *Aphidius ervi***

Murat Bakirdöven

**S05. A combinatorial view on rapid speciation – the role of ancient genetic variants and hybridisation**

**Poster 78 (ID 1310)**

**The impact of hybridization on gene expression in ZW brine shrimp**

Clémentine Lasne

**Poster 79 (ID 1372)**

**Bird-of-paradise hybrids, infertile vagaries or drivers of macro-evolutionary change**

Filip Thörn

**Poster 80 (ID 1402)**

**A wolf in spiders' clothing: genomic-wide screening uncovers admixture between Madeiran wolf spiders**

Alba Enguídanos García

**Poster 81 (ID 1425)**

**The role of ancestral hybridization in clownfish adaptive radiation**

Sarah Schmid

**Poster 82 (ID 1462)**

***Petunia* species in the making: consequences of hybridization between two *P. axillaris* subspecies**

Pedro Henrique Pezzi

**Poster 83 (ID 1485)**

**Hybridization and asexual reproduction in a haploid diploid red alga *Gracilaria gracilis***

Christophe Destombe

**Poster 84 (ID 1552)**

**Eco-evolutionary consequences of costly sexual interactions in hybridizing spider mites**

Miguel A. Cruz

**Poster 85 (ID 1627)**

**Whole genome sequencing unravels the genomic landscape of hybrid speciation in alpine butterflies**

Thibaut Capblancq

**Poster 86 (ID 1776)**

**The genomic basis of hybrid male sterility in *Ficedula* flycatchers**

*Carolina Segami Marzal*

**Poster 87 (ID 1826)**

**Introgression and incomplete lineage sorting shape the evolution of Eucalypts' rapid radiation**

*Anne-Cecile Colin*

**Poster 88 (ID 1855)**

**Did ancient hybridization fuel the evolution of pelvic brooding ricefishes?**

*Jana Flury*

**Poster 89 (ID 1880)**

**Ancient hybridization in *Curcuma* (Zingiberaceae) – fuel or brake of lineage diversification?**

*Eliska Zaveska*

**Poster 90 (ID 1900)**

**Evidence for ancient and ongoing hybridization in Iberian freshwater fish from whole-genome data**

*Sofia L. Mendes*

**Poster 91 (ID 2062)**

**Re-emergence of a species after the 2011 Tohoku tsunami-induced hybridization**

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Romuald Laso-Jadart

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**What drives the rapid buildup of sterility barriers in the Arctic crucifer *Draba nivalis*?**

Christian Brochmann

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**Poster 680 (ID 2139)**

**Sexual-size dimorphism has evolved via sex-specific trait architecture**

Simona Kralj-Fišer

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**Poster 681 (ID 2142)**

**Fixation probabilities in network structured meta-populations**

Sedigheh Yagoobi

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**Poster 682 (ID 2154)**

**The role of evolvability, robustness, and tunability of transcription factors in regulatory rewiring**

Aleksandra Greshnova

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**Poster 683 (ID 2185)**

**The changing effect of social class on fertility through the demographic transition in Switzerland**

Ege Pehlivanoglu

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**Poster 684 (ID 2186)**

**Adaptive introgressions have driven the domestication of the apple tree**

Xilong Chen

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**Poster 685 (ID 2188)**

**Identifying the environmental drivers of functional biodiversity loss in a freshwater lake**

Niamh Eastwood

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**Poster 686 (ID 2199)**

**Transposable elements and genome size evolution in the plant genus *Curcuma* (Zingiberaceae)**

Bijay Khadka

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**Poster 687 (ID 2201)**

**Atlantic vs. Mediterranean: Different evolutionary pathways of populations of goby *Gobius niger***

Jakub Hradečný

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**Poster 688 (ID 2211)**

**Seeking the smoking gun of fisheries induced selection using covariance-based temporal genome scans**

Kwi Young Han

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**Poster 689 (ID 2237)**

**Ray of light: vegetation cover is the main driver of color brightness evolution in squamates**

Jonathan Goldenberg

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**Poster 690 (ID 2252)**

**New stygomorphic freshwater crab from Laos offers insights into the adaptation to cave life**

Myria Schröder

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**Poster 691 (ID 2268)**

**Major urinary proteins profile and copy number variation in commensal and noncommensal mouse species**

Kristina Daniszová

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**Poster 692 (ID 2270)**

**Mate choice and reproductive success in a warming planet**

Valentina Zizzari

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**Poster 693 (ID 2272)**

**A reference genome assembly of the chaetognath *Flaccisagitta enflata***

Nadège Guiglielmoni

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**Poster 694 (ID 2279)**

**Consequences of evolution under juvenile malnutrition for adult metabolism and fitness.**

Tadeusz Kawecki

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**Poster 695 (ID 2296)**

**Conservation genomics of the Finnish wolf population**

Suvi Ponnikas

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**Poster 696 (ID 2301)**

**Gene expression of distinct shell phenotypes between ecotypes of *Littorina saxatilis*.**

Florian Neugebauer

**Poster 697 (ID 2306)**

**Phylogeography and evolutionary history of the *Crocidura poensis-hildegardeae* species complex**

Inessa Voet

**Poster 698 (ID 2323)**

**Opsin gene expression and vision modification during ontogeny in European cyprinid fishes**

Veronika Truhlarova

**Poster 699 (ID 2329)**

**Male mating success evolves in response to increased levels of male-male competition.**

Tejinder Singh Chechi

**Poster 700 (ID 2331)**

**South-eastern Europe – a hotspot of genetic diversity of the European bitterling**

Veronika Bartáková

**Poster 701 (ID 2333)**

**An approach based on molecular data to relationship of *Fannia* (Fanniidae: Diptera) from Colombia**

Luz Gomez

**Poster 702 (ID 2335)**

**Host specificity influence how fungal pathogens navigate nutritional landscapes of their insect host**

Henrik H. De Fine Licht

**Poster 703 (ID 2339)**

**Museomics to resolve the genomic and wing-pattern relationships of burnet moths (*Zygaena*)**

Eduardo Marabuto

**Poster 704 (ID 2357)**

**Hybridisation of cyprinid fishes of the subfamily Leuciscinae in the Czech Republic**

Vit Kaufman

**Poster 705 (ID 2358)**

**Teach and outreach: promoting public understanding of evolution through collections-based learning**

Dragana Cvetkovic

**Poster 706 (ID 2387)**

**Ploidy as an imperfect speciation barrier: what drives interploidy gene flow in natural populations?**

Susnata Salony

**Poster 707 (ID 2403)**

**Identifying non-recurrent rare variants in Anopheles mosquitoes to infer evolutionary processes**

Josh Reynolds

**Poster 708 (ID 2414)**

**Phylogenetic and molecular clock study of plastid encoded genes untangle archaeplastidia evolution**

Filip Pietluch

**Poster 709 (ID 2418)**

**Cooperation and competition across the evolutionary transition to multicellularity**

Maria Kalambokidis

**Poster 710 (ID 2431)**

**Habitat determines convergent evolution of cephalic horns in vipers**

Theo Busschau

**Poster 711 (ID 2439)**

**Predictive genotype-phenotype-fitness mapping of the tetracycline efflux pump regulatory elements**

Zahra Khomarbaghi

**Poster 712 (ID 2441)**

**Genomes on a Tree (GoaT) – informing planning and progress of eukaryotic genome sequencing globally**

Cibele Sotero-Caio

**Poster 713 (ID 2443)**

**Dispersal can play a crucial role in evolutionary dynamics of flightless beetles**

Albert František Damaška

**Poster 714 (ID 2444)**

**Surviving ice ages by going south or up? – Biogeography of the European butterfly *Erebia medusa***

Julia Canitz

**Poster 715 (ID 2445)**

**On the relativity of species, or the probabilistic solution to the species problem**

*Jan Kollár*

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**Poster 716 (ID 2446)**

**Evolutionary history of livestock guarding dogs**

*Diogo Lima*

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**Poster 717 (ID 2447)**

**Population dynamics of the Late Pleistocene narrow-headed voles reconstructed using ancient DNA**

*Mateusz Baca*

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# Social Events

## Welcome Cocktail

**Date:** August 14, 2022

**Time:** 18:00–20:00

Welcome Cocktail is included in the registration fee and is being held in the Congress venue on the 3<sup>rd</sup> floor in the Catering Area.

## Congress Dinner

**Date:** August 19, 2022

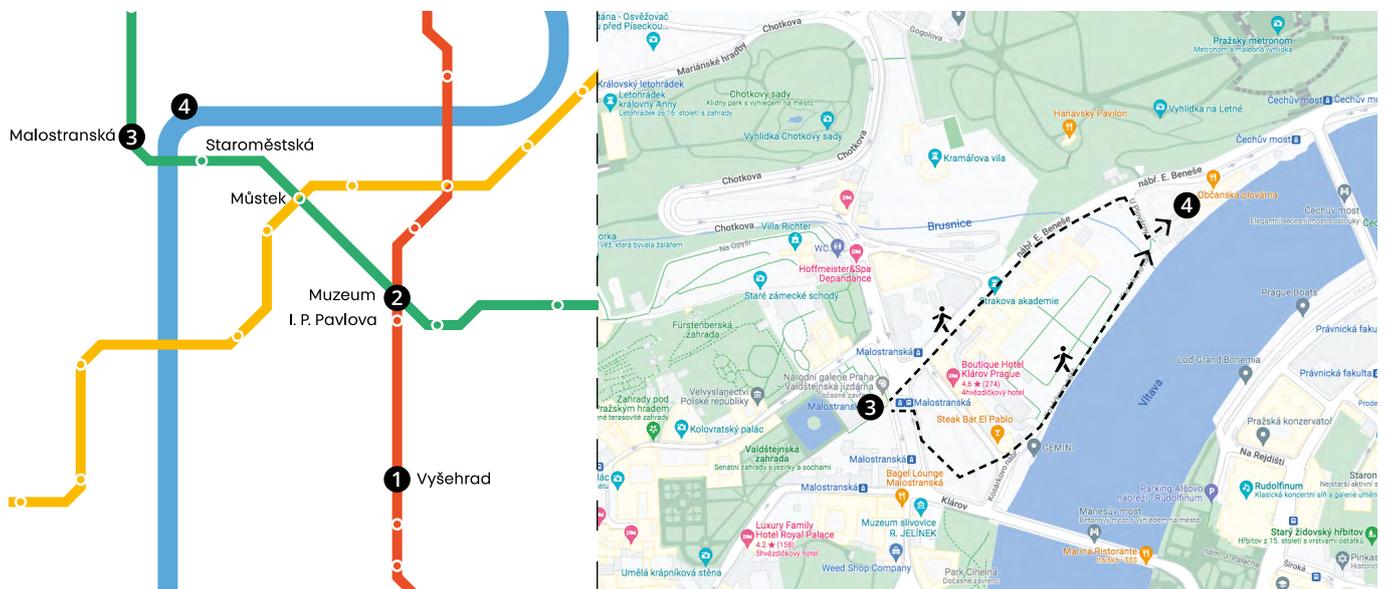
**Time:** 19:00–23:30

**Place:** Občanská plovárna (Public Swimming Pool). Address: U Plovárny 1, Prague 1

**Recommended dress code:** casual/ semi casual

**Price:** 90 EUR per delegate, 60 EUR per student

**Programme:** Buffet style dinner, music and dancing, possibility of a short boat ride on the Vltava River



1 Vyšehrad metro C → 2 Muzeum metro C → metro A → 3 Malostranská → 4 Občanská plovárna



## Other Social Events

### Netherlands Evolutionary Biology Get-Together

**Where:** pub 'U Šumavy', address: Štěpánská 3 (<http://usumavy.cz/>)

**When:** Tuesday 16 August, 18:30–20:00

**Who:** All scientists working in the Netherlands or of Dutch origin

The Netherlands society for evolutionary biology (NLSEB) aims to build a community of all evolutionary biologists in the Netherlands. NLSEB therefore welcomes all scientists working in the Netherlands or from Dutch origin for drinks. Come and (re-)connect to Dutch evolutionary biology!

### Evolution societies meet to discuss global issues

The European Society of Evolutionary Biology (ESEB) is inviting evolution societies organized at the national and international levels for a discussion meeting during the ESEB 2022 Congress.

The goal is to tackle current issues that our communities are facing and possible joint actions that can be taken. Potential topics include the teaching of evolution, open access policies, and problems facing the Global South such as visa restrictions, helicopter science, and brain drain. The ESEB invitation was sent out to the presidents of 39 societies across the world.

In case your society haven't received an invitation but would like to participate, your representative is welcome to join us on **Tuesday August 16, 2022, at 18.30 CEST, at Vinicna 7 Street, Prague** or contact Ute Friedrich ([office@eseb.org](mailto:office@eseb.org)) to attend virtually.

## Tours for Accompanying Person

Please book the free tour via registration form – there are 2 options: T1 or T3.

**departure time:** Tour 1= 9:50 in the morning T3 = 14:20

**meeting point:** in the city centre – PREMIANT BOOTH, **Na Příkopě 23** - see the [map](#)

### TOUR 1 - Grand City Tour - The Best of Prague

**August 15, 2022 at 10:00, English speaking guide, meeting at 9:50**

**PRICE – FREE FOR ACCOMPANYING PERSONS:** please book the tour via the registration form

**PRICE FOR OTHER REGISTERED PARTICIPANTS:** adults 46,00 €, children 37,50 €

### TOUR 3 - Grand City Tour + Prague Castle + Charles Bridge

**August 16, 2022 at 14:30, English speaking guide, meeting at 14:20**

**PRICE – FREE FOR ACCOMPANYING PERSONS:** please book the tour via the registration form

**PRICE FOR OTHER REGISTERED PARTICIPANTS:** adults 35,50 €, children 31,50 €

## Mobile Application

Try our mobile app, which will make it easier to navigate the congress and where you can find the scientific programme, posters, social events and other detailed information.

Use the QR code to download the mobile app:



The mobile app will be available from August 13, 2022.

## Wi-Fi

A free Wi-Fi will be available under the name ESEB2022.

**Password: Congress2022**



# Partners

We would like to thank the following partners

## Bronze Partners



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## Partners of the Student Best Poster Award





2022 Prague – Czech Republic

