

Congress of the European Society for Evolutionary Biology

Congress Program & Information August 10 - 14, 2015 Lausanne, Switzerland

unil.ch/eseb2015 @eseb2015 #eseb15

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UNIL | Université de Lausanne Département d'écologie et évolution



UNIL campus overview

The congress will take place in three main buildings of UNIL, the **Amphipôle (POL)**, the **Amphimax (MAX)**, and the **Génopode (GEN)**. Access to this section of campus is easiest via the M1 metro stop **UNIL-Sorge.**

Lunch throughout the conference will be served at the **Unithèque.** The conference dinner on the last evening of the meeting will also be held at the Unithèque.

Childcare is provided by La Croq'cinelle in the **Anthropole**, a 10 minute walk from the buildings where sessions will occur. Access to childcare from Lausanne city is easiest via the M1 metro stop **UNIL-Dorigny**.



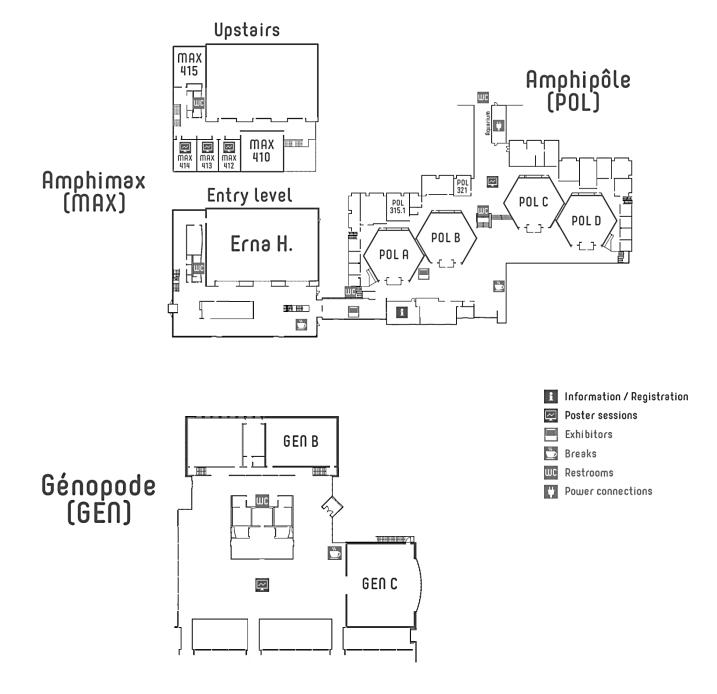
Primary buildings

Participants may pick up their conference bags and badges at the welcome reception or anytime thereafter in the Amphipôle in **POL-303 – Anthropos Café**.

Opening remarks, plenary sessions, the presidential address, and John Maynard Smith prize talks will take place in the **Auditorium Erna Hamburger** in the Amphimax. Concurrent sessions will take place in four rooms in the Amphipôle (POL-A, POL-B, POL-C, and POL-D), two rooms in the Amphimax (MAX-410 and MAX-415), and two rooms in the Génopode (GEN-B and GEN-C). Coffee breaks will be held in all three buildings.

Poster sessions will take place in POL-300, GEN-2000, MAX-412, MAX-413, and MAX-414.

Conference attendees can access the internet throughout campus via Wi-Fi (guest-unil network, password eseb2015) and can plug in their laptops (adapter required) in POL-342.6, the **Aquarium**.



Key information

Travel and transport

ESEB 2015 will take place at the Dorigny campus of the University of Lausanne (UNIL), with some events occurring in the city of Lausanne. There are regular trains between Lausanne and both the Geneva and Zurich airports. Departure and arrival times can be found on <u>www.sbb.ch/en</u>.

The UNIL campus is located west of Lausanne. The easiest way to reach the campus from Lausanne-Flon in the city center is to take the metro line M1, direction Renens Gare, and stop at UNIL-Sorge. The M2 line runs between Ouchy in the south, on the shore of Lake Geneva, and Les Croisettes to the north. The two metro lines meet at Lausanne-Flon. Transport on the M1 and M2, as well as all of the buses in Lausanne, is free for all Congress participants with a personal transport card provided by the hotels at check-in. Without this transportation card, a single ticket will cost CHF 3.60 and a day pass (carte journalière) costs CHF 9.00. For those Congress participants who will drive to the venue, parking on the campus is free throughout the meeting.

More information about accommodation, entertainment, and transport is available on the website of Lausanne Tourisme (<u>http://www.lausanne-tourisme.ch/en/</u>). A map of the city is provided in your conference bag and the inside back cover of this program.

Registration and information desk

The congress bag, T-shirts, and any general information can be obtained at the Amphipôle in POL-303 – Anthropos Café, beginning Sunday, August 9th during the welcome reception. The conference bag includes this booklet, a campus and building map, a city map, lunch vouchers, and other material from our sponsors.

Staff

Congress staff will be easily identified by their orange ESEB 2015 T-shirts and will be able to answer any questions about the venue.

Internet

Conference attendees can access the internet throughout campus via Wi-Fi (guest-unil network, password eseb2015) and can plug in their laptops in POL-342.6, the Aquarium. Attendees without Swiss power plugs will need an adapter.

Breakfast, breaks, and lunch

Complimentary breakfast (coffee and croissant) will be available daily at the Amphimax cafeteria (MAX-301) from 8:00-8:50. Coffee will be available during breaks between sessions in all three of the primary buildings. Lunch will be available only at the Unithèque, and will consist of a choice among 5 menus, with vegetarian options. Tap water will be available; no bottled beverage will be included

Talk and poster abstracts

The complete schedule of talks and posters, along with abstracts, is available online at <u>http://wp.unil.ch/eseb2015/</u> and also via the Guidebook application (<u>https://guidebook.com/g/ESEB2015/</u>).

Talks

Invited talks will be 27 minutes long and normal contributed talks will be 17 minutes long, including discussion. An additional 3 minutes is provided to change rooms.

It will not be possible to connect your own laptop for the presentation. Instead, we have asked you to upload your slides on a cloud-based system prior to the conference (a personal link should have been sent to you by e-mail). It is possible to modify your presentation at any time, but we would like your final version to be uploaded the day before your talk at the latest. We can accommodate Powerpoint or Keynote presentations, but we recommend that you also upload a PDF version of your presentation in case of compatibility issues. If you have any problems uploading your presentation, send an e-mail to eseb2015@unil.ch, with subject "presentation upload". There will be an opportunity to check your presentation on site before your talk in POL-321. All session rooms will be equipped with Mac laptops.

Posters

There will be two poster sessions (A and B) and three locations: Amphimax (MAX-412, MAX-413, MAX-414), Amphipôle (POL-300) and Genopode (GEN-2000).

Session A posters will be presented on Monday, August 10th, 17:40-19:40. Session B posters will be presented on Thursday, August 13th, 17:40-19:40. Both sessions will be combined with an apero: authors will be asked to stand in front of their poster with drinks (provided) and fill the glasses of attendees.

Session A posters will be displayed from Monday until Wednesday morning. You may place your poster during the Welcome reception (poster rooms will be open from 18:00 to 21:00). Retrieve your poster by Wednesday 11:30 at the latest.

Session B posters will be displayed from Wednesday afternoon until Friday afternoon. You may place your poster from Wednesday 12:30. Retrieve your poster by Friday 18:00 at the latest.

Wooden panels and pins will be provided for you to pin your poster. Panels will be numbered; each can accommodate two posters on each side (i.e. four in total). The maximal size for posters is 120 cm height and 90 cm width (A0 size vertical posters fit well).

Childcare

Free childcare will be provided on the campus for children 0 – 60 months old, throughout the conference (10th-14th of August, 8:00 to 18:00). Childcare is provided by La Croq'cinelle, part of the University childcard system, in the Anthropole. Access to the Anthropole is easiest via the M1 metro stop **UNIL-Dorigny**.

Contact info eseb2015@unil.ch ESEB help desk +41 (0)21 692 23 44 Emergency +41 (0)21 692 20 00 Taxi services +41 (0)844 814 814

+41 (0)844 810 810

Plenary lectures (Erna Hamburger Auditorium)

Monday, August 10th at 9:10 **Judith Mank** University College London "The genomic basis of sexual dimorphism" **Jane Reid** Tuesday, August 11th at 9:00 University of Aberdeen "Dissecting the evolutionary ecology of reproductive strategies in the wild" **Kevin Foster** Wednesday, August 12th at 9:00 University of Oxford "Social evolution in microbes: from model systems to the microbiome" Dan Tawfik Thursday, August 13th at 9:00 Weizmann Institute of Science "How do proteins evolve?" Hopi Hoekstra Friday, August 14th at 9:00 Harvard University "Digging for genes that affect behavior" Presidential address (Erna Hamburger Auditorium) Laurent Keller Friday, August 14th at 14:45 University of Lausanne "Supergenes, sex, and sociality"

John Maynard Smith Prize 2014(Erna Hamburger Auditorium)Laurie StevisonFriday, August 14th at 15:30Auburn University"The timescale of recombination rate evolution in great apes"

John Maynard Smith Prize 2015(Erna Hamburger Auditorium)Matthew HartfieldFriday, August 14th at 16:40University of Toronto"Mathematical adventures in sex and disease evolution"

Satellite activities

Meet the DFG (Tuesday, August 11th at 13:40 in MAX-415) Christoph Limbach, Lutz Becks, and Susanne Foitzik

The German Research Foundation (DFG) – Funding programs for early career researchers. This talk is addressed to researchers at an early stage of their scientific careers (e.g. advanced PhD students, postdocs, junior research group leaders). It aims to introduce the German Research Foundation (DFG) as the largest research funding organization in Germany and DFG's funding programs for early career researchers from Germany and abroad. Application and review procedures will be presented and recent developments discussed. Experienced scientists will share their experiences relating to their scientific careers and disclose some tips and tricks for grant writing. No registration required!

Meet the Editors (Tuesday, August 11th at 17:40 in POL-A)

This workshop will offer participants the possibility of interacting with the Editors of a few selected leading journals, including Mike Ritchie (J Evol Biol), Spencer Barrett (Proc R Soc B), Loren Riesenberg (Mol Ecol), Dries Bonte (Oikos), Christopher Foote (BMC Evol Biol), Roland Roberts (PLoS Biology), Laura Zahn (Science), Vera Domingues (Nature Com) and Patrick Goymer (Nature).

Meet the NSF (Thursday, August 13th at 13:40 in MAX-415) George Gilchrist and Leslie Rissler

The National Science Foundation (NSF) — US NSF supports basic research in all areas of science. We will discuss funding opportunities in the Biological Sciences Directorate (BIO), the process of applying for funding, and the characteristics of successful proposals. Special attention will be given to international programs and CAREER awards for early stage scientists. Come with your questions, no registration required!

ESEB members meeting (Friday, August 14th at 13:40 in Erna Hamburger)

We invite all ESEB members to our members' meeting in the plenary hall Erna Hamburger on Friday the 14th of August at 13:40! The members' meeting discusses important issues for our society, this year including foundation of a new journal (Evolution Letters), information on new exciting ESEB initiatives and awards, decision on future congress locations, the society's budget, and also news on our existing journal (Journal of Evolutionary Biology). So do not miss it and join us for the members' meeting!

ESEB Business Meetings

JEB Editorial Board Meeting (Sunday, August 9th, 9:00-12:00 in the meeting room of Hotel Alpha-Palmiers, Lausanne)

ESEB Steering Committee Meeting (Sunday, August 9th, 12:00-18:00 in the meeting room of Hotel Alpha-Palmiers, Lausanne)

ESEB Council Meeting (Monday, August 10th, 13:00-14:40, in POL 315.1)

Social events and excursions

Welcome reception

The welcome reception will take place on campus, in front of the Amphimax. Food and drinks will be served on Sunday, August 9th, from 17:00 to 22:00. You will need to check in at the registration desk beforehand (POL-303 – Anthropos Café) and get your personal badge in order to be allowed to attend. You will also be able to obtain your conference bag, and to pin your poster for Session A.

Congress bar

A conference bar will be available Monday-Thursday evenings from 20:00 until 24:00 in the Casino de Montbenon, in the center of the city of Lausanne.

Gala dinner

The conference dinner will be held on the Dorigny campus of the University of Lausanne at the Unithèque on Friday, August 14th from 19:00. Live music will begin at 21:00 and festivities will continue until 2:00.

Excursions

Wednesday afternoon will be free to allow attendees to explore the Lausanne region. We have proposed three excursions organised by Lausanne Tourisme. Check the website for additional details and up to date information on the trips. Packed lunches will be provided.

- Lausanne city walking tour and wine-tasting excursion to Lavaux Meet 13:45 at Place de la Riponne, in front of the Tourist Office "Palais de Rumine" (metro stop Riponne, M2 line). Return by 19:40. Packed lunches will be provided. 70 CHF

Public cruise with the "Montreux" Belle Epoque paddle steamer
 Meet at 13:45 at dock number 3, Lausanne-Ouchy (metro stop Lausanne-Ouchy, M2 line). Return by 17:45. Packed lunches will be provided.
 50 CHF

- Rochers-de-Naye, 2042 m. altitude

Meet 14:00 at Lausanne train station. Return by 23:14. Packed lunches will be provided.

125 CHF

<u>Outreach</u>

We are excited to announce a series of events at ESEB 2015 that are open to the general public.

- A **workshop on "Actively learning evolution"**: Sunday 9th August (full day). We will explore methods and resources available for the enquiry-based teaching of evolution. Speakers will present effective teaching methods, the latest research discoveries in the field of evolution and participants will take part in hands-on activities that they can take back to their classroom/lecture.

Tweet chats (Tuesday, August 11th 18:00-19:00)
 Two parallel discussions, one in French and the other in English, with science-loving tweeters about the evolution of sex. To participate, tweet to:
 @LCE_fr (for the discussion in French)
 @LCE_en (for the discussion in English)

Or, simply follow the discussion: #evosexfr (French) #evosexen (English)

- **Questions of the day**: questions collected from the public about evolutionary biology related topics will be answered by ESEB participants before the congress and posted to our Facebook page in daily installments throughout the conference.

- **Scientist speed dating** (full): a series of short discussions between scientists and the public in an informal and relaxed environment at the bar of Casino Montbenon on Thursday, August 13th at 20:00.

If you want to collaborate or learn more about these outreach projects, please contact us at <u>outreach2015eseb@gmail.com</u>. You can also follow our updates on our web page <u>http://outreachateseb2015.tumblr.com/</u> or on our Facebook page <u>https://www.facebook.com/LCE15</u>.

Sex and sexes

- Ecology and the evolution of sex. Organizers: Lutz Becks, Hanna Koch Invited speakers: Levi Morran and Tanja Schwander
 What is new in the study of sex allocation?
- 2. What is new in the study of sex allocation? Organizers: Bram Kuijper, Sara Magalhaes Invited speakers: Lukas Schärer and Lisa Schwanz
- 3. The evolution of sex chromosomes. Organizers: Susana Coelho, Nicolas Perrin Invited speakers: Doris Bachtrog and James Umen
- **4. Evolutionary consequences of sexually antagonistic selection.** Organizers: Brian Hollis, Göran Arnqvist Invited speakers: Stephen Chenoweth and William Rice
- 5. Novel insights in the genetics of sex-specific variation. Organizers: Elina Immonen, Holger Schielzeth Invited speakers: Daphne Fairbairn and Tim Connallon

Social interactions

- 6. Mating system evolution: unifying theory and test. Organizers: Greta Bocedi, Francisco Garcia-Gonzalez Invited speakers: Suzanne Alonzo, Aneil Agrawal
- 7. Social evolution and sexual conflict. Organizers: Tommaso Pizzari, Jay Biernaskie Invited speakers: Andy Gardner and Tracey Chapman
- 8. Cooperation without kinship: from genomes to mutualisms. Organizers: Arvid Ågren, Kevin Foster Invited speakers: Justin Blumenstiel and Toby Kiers
- 9. Evolutionary ecology of cooperation: theory and experiment. Organizers: Dusan Misevic, Sam Brown Invited speakers: Ashleigh Griffin and Jeff Gore

Interspecific interactions

10. Adaptation in heterogeneous environments: insights from host-parasite systems. Organizers: Nicolas Rode, Florence Débarre

Invited speakers: Anna-Liisa Laine and Alex Hall

11. Host defence in a parasitized world: selection, evolution and the maintenance of variation.

Organizers: Barbara Tschirren, Lars Råberg Invited speakers: Andrea L. Graham and Brian P. Lazzaro

12. Next-generation phylodynamics.

Organizers: Tanja Stadler, Alexei Drummond

Invited speakers: Gabriel Leventhal and Katja Koelle

13. Evolutionary analysis of ecological communities.

Organizers: Brent Emerson, Andres Baselga Invited speakers: Mike Hickerson and Catherine Graham

14. Experimental evolution and ecology of (microbial and other) ecosystems. Organizers: Sijmen Schoustra, Susanne Kraemer Invited speakers: Susanna Remold and Tom Bell

Genome evolution

15. Evolution of genomes.

Organizers: Alexandre Reymond, Laurent Keller Invited speakers: Evan Eichler and Lucia Carbone

16. Evolutionary consequences of selfish genetic elements.

Organizers: Tom Price, Anna Lindholm Invited speakers: Gerry Wilkinson and Laura Ross

17. Polyploid evolution: Integrating ecological and genomic studies.

Organizers: Mario Vallejo-Marin, Richard Buggs

Invited speakers: Christian Parisod and Andrea Harper

18. How to identify and test the loci and alleles underlying adaptation? Organizers: Paul Schmidt, Thomas Flatt Invited speakers: Felicity Jones and Alistair McGregor

19. Ignoramus et ignorabimus? – How much genome scans can and should tell us about evolution.

Organizers: Daniel Berner, Marius Roesti

Invited speakers: Matthew Rockman and Rasmus Nielsen

20. Genomics of local adaptation.

Organizers: Santiago Gonzalez-Martinez, Martin Lascoux Invited speakers: Outi Savolainen and Thomas Mitchell-Olds

Plasticity, epigenetics and behaviour

21. The evolution of phenotypic plasticity within and across generations. Organizers: Matthew Walsh, Steve Munch Invited speakers: Cameron Ghalambor and Eva Jablonka

22. Evolutionary epigenetics: switching from models to the field. Organizers: Conchita Alonso, Ovidiu Paun Invited speakers: Koen Verhoeven and Annalisa Varriale

23. Emerging 'models' in evolutionary and ecological neurobiology. Organizers: Stephen Montgomery, Alison Wright Invited speakers: Katie Peichel and Niklas Kolm

24. Evolution of behavioral variation. Organizers: Barbara Feldmeyer, Susanne Foitzik Invited speakers: Seirian Sumner and Jürgen Gadau

Microbe evolution

25. Groups versus individuals: levels of selection in microbial systems. Organizers: Christian Kost, Martin Ackermann

Invited speakers: Martin Polz and Thierry Emonet

26. Real-time bacterial evolution in vivo and in vitro. Organizers: Daniel Wilson, Craig MacLean Invited speakers: Sebastien Gagneux and Rasmus Lykke Marvig

Selection / adaptation

27. Ecology and evolution of floral signals.

Organizers: Florian Schiestl, Martin von Arx Invited speakers: Brian Smith and Santiago Benitez-Vieyra

28. Variation in natural selection: patterns, causes, and consequences. Organizers: Anne Charmantier, Michael Morrissey Invited speakers: Christina Caruso and Luis-Miguel Chevin

29. The evolution and ecology of trait loss and dependency.

Organizers: Jacintha Ellers, Fabrice Vavre Invited speakers: Sonia Pascoal and Amparo Latorre

- **30. Protein evolution: structural and functional perspective.** Organizers: Romain Studer, Maria Anisimova Invited speakers: Dan S. Tawfik and Richard A. Goldstein
- **31. Melanism: macrophysiology to molecules.** Organizers: Subhash Rajpurohit, Paul Schmidt Invited speakers: Alexandre Roulin and Aya Takahashi
- **32. Forecasting eco-evolutionary responses to global changes.** Organizers: Frédéric Guillaume, Ophélie Ronce Invited speakers: Katja Schiffers and Liana Burghardt

Speciation

- **33. The molecular basis of adaptation and ecological speciation.** Organizers: Philipp Schlüter, Shuqing Xu Invited speakers: Mark Rausher and Beverley Glover
- **34. Charting the genomic landscape of speciation.** Organizers: Anja Marie Westram, Mark Ravinet Invited speakers: Nicolas Bierne and Mohamed Noor

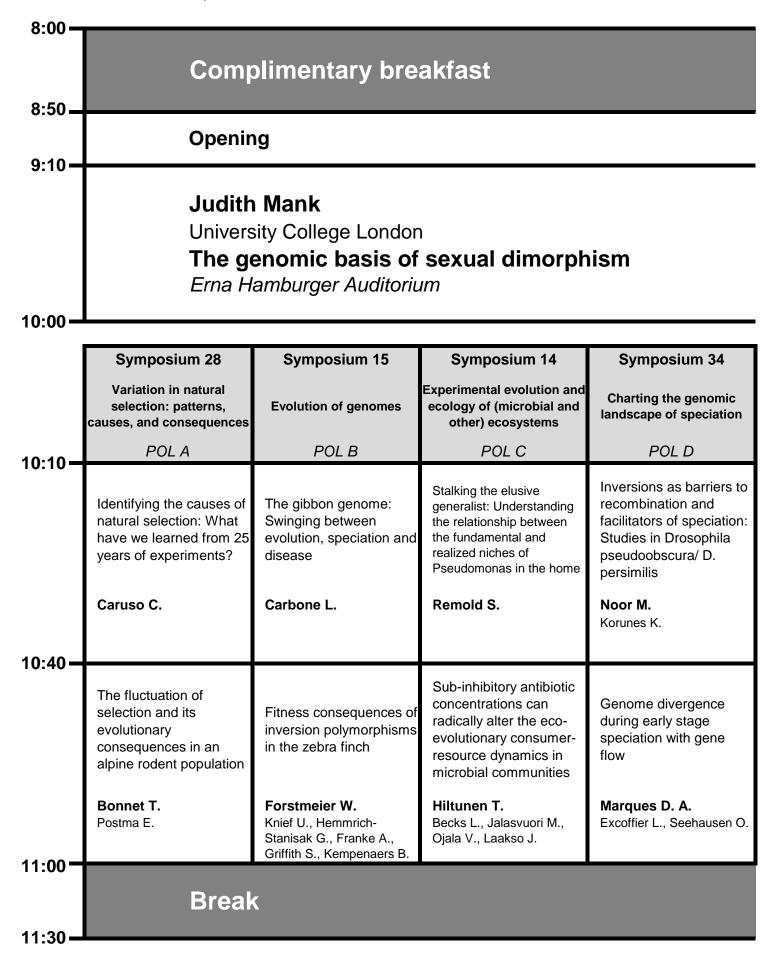
Open symposium

35. Open symposium.

Organizers: John Pannell, Laurent Keller

Program summary

Sunday 9	Monday 10	Tuesday 11	Wednesday 12	Thursday 13	Friday 14	
	breakfast					
		ŀ	keynote lectures	5		
	symposia # 15	symposia # 38	symposia # 27	symposia # 49	symposia # 12 16	
	6 13	11 20	11 20	10 18	17 19	
	14 15	21 28	21 29	24 26	22 23	
	28 34	30 33	33 35	32 35	31 35	
		Meet the DFG	lunch	Meet the NSF	ESEB members	
	symposia # 15 613	symposia # 3 8 11 20		symposia # 4 9 10 18	Presidential address	
	14 15	21 27		24 25	JMS prizes	
	28 34	28 33 35		32 35	Closing	
	20 54	20 33 33		52 55	ceremony	
welcome reception	poster session A	meet the editors		poster session B	conference	
					dinner	



Symposium 6	Symposium 13	Symposium 1	Symposium 5
Mating system evolution: unifying theory and test	Evolutionary analysis of ecological communities	Ecology and the Evolution of Sex	Novel insights in the genetics of sex-specific variation
MAX 410	MAX 415	GEN C	GEN B
The social side of sex: Male/female coevolution and social plasticity affect reproductive patterns Alonzo S.	Linking patterns and processes across scales: A case study with Neotropical hummingbirds Graham C.	On the maintenance of sex in natural populations Schwander T.	How important are sex- linkage and non-additive genetic variation in the variance structure of sexually dimorphic traits? Fairbairn D.
Promiscuity modulates the male Bateman gradient in Drosophila melanogaster	Using low coverage multispecies genomic data to reconstruct the assembly of a widespread insect community	Evolutionary advantage of sexual algal prey exposed to predation	X-linkage of sex-specific genetic variance revealed using G-matrix analyses and a novel laboratory technique
Morimoto J. McDonald G. C., Pizzari T., Wigby S.	Bunnefeld L. Hearn J., Lohse K., G.N. Stone	Koch H. Wagner S., Becks L.	Griffin R. Schielzeth H., Friberg U.

	Symposium 28	Symposium 15	Symposium 14	Symposium 34
	Variation in natural selection: patterns, causes, and consequences	Evolution of genomes	Experimental evolution and ecology of (microbial and other) ecosystems	Charting the genomic landscape of speciation
44-20	POL A	POL B	POL C	POL D
11:30 —	Measuring fluctuating phenotypic selection	Human Evolution by Segmental Duplication	Experimental evolution of bacteria in the laboratory and in the wild	The multifarious histories charting the multifaceted landscapes of genomic differentiation
	Chevin L. Visser M., Tufto J.	Eichler E.	Bell T.	Bierne N.
12:00 —	The spatial scale of local adaptation	Parental investment predicts genetic diversity of animal species	Bacterial biodiversity: The role of spatial structure and competition within species	Evolution of genome differentiation across the speciation continuum: From patterns to mechanisms to regions related to species- specific evolution
12:20 —	Hadfield J. Phillimore A.	Romiguier J. Galtier N.	Leinweber A. Kümmerli R.	Burri R. Nater A., Kawakami T., Mugal C.F., Olason P. I., Smeds L., Suh A., Ludovic D., Ellegren H.
	Detecting changing selection intensities from time-sampled data	A genomic study of the contribution of DNA methylation to regulatory evolution in primates	Experimental coevolution and the effects of parasite species co-infection on parasite virulence and fitness	Genome-wide tests for introgression between cactophilic Drosophila implicate a role of inversions during speciation
12:40 —	Shim H. Laurent S., Foll M., Jensen J.	Roux J. Hernando-Herraez I., Banovich N., Garcia-Perez R., Pritchard J., Marques-Bonet T., Gilad Y.	Ford S. King K.	Lohse K. Clarke M., Ritchie M. G., Etges W.J.
12.70		Recombination and GC- biased gene conversion shape genome evolution in the honeybee (Apis mellifera)	Pathogen adaptation to individual and social host defences in ants	Traversing the micro-evolution to macro-evolution boundary in Caenorhabditis nematodes with full-genome population genomics, crosses, and hybrid phenotypes
13:00 —		Wallberg A. Glémin S., Webster M. T.	Stock M. Grasse A. V., Cremer S.	Cutter A.
	Lunc	h		
14:45 —				

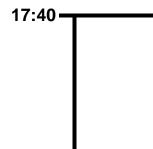
Symposium 6	Symposium 13	Symposium 1	Symposium 5
Mating system evolution: unifying theory and test	Evolutionary analysis of ecological communities	Ecology and the Evolution of Sex	Novel insights in the genetics of sex-specific variation
MAX 410	MAX 415	GEN C	GEN B
Coalescence and genomics with linked selection in systems with bi- and uniparental reproduction: Contrasting partial asexuality and selfing Agrawal A.	Comparative population genomics for community- scale demographic inferences Hickerson M.	Invasion of the selfers! Evolutionary ecology and the maintenance of outcrossing Morran L.	The geography of sex- specific selection, local adaptation, and sexual dimorphism Connallon T.
Genetics of attractiveness and mate choice in Drosophila melanogaster Arbuthnott D. Promislow D.	Ecological correlation reinforcement facilitates collective community behaviours without group selection Power D. Watson R., Száthmary E.	Fitness consequences of parasite-mediated selection on sexual reproduction in a natural population Gibson A. Delph L., Lively C.	Transcriptome-wide effects of male sexual selection on the fate of new mutations Collet J. M. Blows M. W., McGuigan K.
Does sexual selection augment or oppose natural selection? Holman L.	Ecological novelty may facilitate homoploid hybrid speciation in cichlid fish Selz O.M. Seehausen O.	Brachionus calyciflorus evolves higher levels of sex with more loci under selection Luijckx P. Ho E., Gasim M., Yanchus C., Chen S., Kim Y., Agrawal A.	Red males revealed: A cytochrome P450 gene cluster controls production of derived red ketocarotenoids in the zebra finch bill Mundy N. Stapley J., Bennison C., Burke T., Birkhead T., Andersson S., Slate J.
Sexually transmitted infection and the evolution of serial monogamy McLeod D. Day T.			

	Symposium 28	Symposium 15	Symposium 14	Symposium 34
	Variation in natural selection: patterns, causes, and consequences	Evolution of genomes	Experimental evolution and ecology of (microbial and other) ecosystems	Charting the genomic landscape of speciation
14:45—	POL A	POL B	POL C	POL D
14.45	Evoltution by r- and K- selection in fluctuating environments	Adaptive genome remodeling by massive changes in gene content and gene transfers across gene fungi	The effects of increasing parasite diversity on the evolution of resistance/infectivity and host/parasite growth	Recombination rate variation and differential gene flow shape the genomic landscape of speciation in sea bass
45.05	Saether B. Engen S., Visser M. E., Grøtan V.	Branca A. Ropars J., Rodriguez de la Vega R., López-Villavicencio M., Gouzy J., Sallet E., Dumas E., Dupont J., Giraud T.	Betts A. Maclean C., King K.	Gagnaire P. Bierne N., Bonhomme F.
15:05 —	Maintenance of polymorphism through small-scale spatial variation in selection	Transcriptome comparisons within a species complex: Half a million years is enough to remove half of the genetic diversity in coding sequences, but not enough for morphological differentiation. Influence of life history	Evolution of competitive ability in multispecies bacterial communities is sensitive to community composition	The repeatability of genomic architecture in a homoploid hybrid species
15:25 —	Lange R. Monro K., Marshall D.	Chenuil A. Galtier N., Abi-Rached L., Weber A.	Ketola T. Mikonranta L., Laakso J., Mappes J.	Runemark A. Trier C. N., Eroukhmanoff F., Hermansen J.S., Elgvin T. O., Saetre G.
13.23	Variation in selection in a wild insect population	Evolutionary dynamics of bacterial pan- genomes	The role of dispersal and interspecific competition on local adaptation	The genomic landscape of the speciation continuum in the killer whale
15:45	Tregenza T. Rodríguez-Muñoz R., Fisher D., Slate J., Skicko I., Kendall S., Liu X., Hopwood P., Rodríguez del Valle C.	Charlesworth J. Wilson D., Crook D.	Bonte D. Bisschop K., Etienne R. S., Bonte D.	Foote A. D. Vijay N., Ávila-Arcos M. C., Fumagalli M., Korneliussen T. Sand, Martin M. D., Morin P. A., Gilbert M. Thomas P., Wolf J. B.W.
16:15 -	Break	(

Symposium 6	Symposium 13	Symposium 1	Symposium 5
Mating system evolution: unifying theory and test	Evolutionary analysis of ecological communities	Ecology and the Evolution of Sex	Novel insights in the genetics of sex-specific variation
MAX 410	MAX 415	GEN C	GEN B
Bias in the Heritability of Preference and its Potential Impact on the Evolution of Mate Choice	The role of hybridization in the evolution of alpine Coenonympha butterflies	Diversity and the maintenance of sex by parasites	Sexually antagonistic effects on development and transcriptomic maturity in Drosophila
Roff D. Fairbairn D.	Capblancq T. Després L., Mavarez J.	Ashby B. King K.	Hollis B. Keller L., Kawecki T. J.
Heritability of heterozygosity leads to transgenerational effects of heterozygosity and inbreeding	Nestedness and turnover in the genetic diversity of marine species across the Indo- Pacific Ocean	Geographical parthenogenesis in Hieracium alpinum (Asteraceae): Molecular evidence for multiple origin of asexuality and replacement of sexual diploids by asexual triploids	Sex-specific effects of serotonin on behavior and gene expression in a stalk-eyed fly
Nietlisbach P. Keller L., Postma E.	Liggins L. Crandall E. D., Aguirre J. David, Gaither M.R., Bird C. E., Toonen R. J., DIPnet members, Riginos C.	Mráz P. Hartmann M., Zdvořák P., Rioux D., Choler P., Chrtek J., Taberlet P.	Grace J. Bubak A., Watt M., Renner K., Swallow J.
Genetic compatibility underlies benefits of mate choice in an external fertilizer	Specificity of the microbiome: Insights from Daphnia hosts	Interactions between genetic and ecological effects on the evolution of life cycles	Convergent evolution of female-limited color dimorphism in Drosophila
Aguirre J.D. Blows M. W., Marshall D. J.	Pichon S. Mariadassou M., Ebert D.	Rescan M. Lenormand T., Roze D.	Yassin A. Bastide H., Lack J., David J., Pool J.

	Symposium 28	Symposium 15	Symposium 14	Symposium 34
	Variation in natural selection: patterns, causes, and consequences	Evolution of genomes	Experimental evolution and ecology of (microbial and other) ecosystems	Charting the genomic landscape of speciation
40.45	POL A	POL B	POL C	POL D
16:15 —	A general condition for adaptive genetic polymorphism in temporally and spatially heterogeneous environments	Avian phylogenomic analyses revealed the macroevolution patterns of bird genomes	Rescued by evolution - problems ahead: Adapting to fluctuating environment increases invasiveness	What causes "genomic islands" of excess Fst ?
	Svardal H. Rüffler C. , Hermisson J.	Zhang G.	Saarinen K.	Barton N. Tavares H., Field D.
16:35 —				
10.00	Spatio-temporal heterogeneity of natural selection in the wild: An experimental approach towards understanding life history adaptation of Arabidopsis thaliana	Fixation of gene duplications due to beneficial increases in gene expression	Life after death: The fate of the microbiota of a dying host	Recombination rate and the chromosomal distribution of gene flow between species of Heliconius buterflies
40.55	Exposito-Alonso M. Brennan A., Alonso-Blanco C., Pico F.X.	Cardoso-Moreira M. Arguello R. J., Riccardi D., Gottipati S., Harshman L. G., Grenier J. K., Clark A.	Preiswerk D. Walser J., Ebert D.	Martin S. Davey J., Jiggins C.
16:55 —	Tempo does not infer mode in evolution	Adaptive Evolution of a Clinal Inversion Polymorphism in Drosophila melanogaster	The effect of interspecific competition on the evolutionary response of photosynthetic algae to elevated CO2	Functional speciation genomics of the Anopheles gambiae complex
47.45	Voje K.	Kapun M. Schmidt C., Goudet J., Schmidt P., Flatt T.	Lawrence D. Collins S.	Tripet F. Aboagye-Antwi F., Alhafez N., Niang A., Weedall G., Paton D., Brothwood J., Kandola S., Diabate A.
17:15 —	Consequences of multiple-scale variation in selection on microgeographic adaptation	Whole genome sequencing reveals an antibiotic resistance determinant driving rapid evolutionary change via several mechanisms in a multi- species outbreak	The interaction of Saccharomyces paradoxus with its natural competitors on oak bark	Ant hybrids reveal genomic features underlying speciation
17:35 —	Cubry P. Oddou-Muratorio S., Scotti I., Lefèvre F.	Sheppard A. Stoesser N., Giess A., Sebra R., Kasarskis A., Peto T., Crook D., Sifri C., Mathers A.	Kowallik V. Greig D.	Kulmuni J. Dhaygude K., Pamilo P., Butlin R.



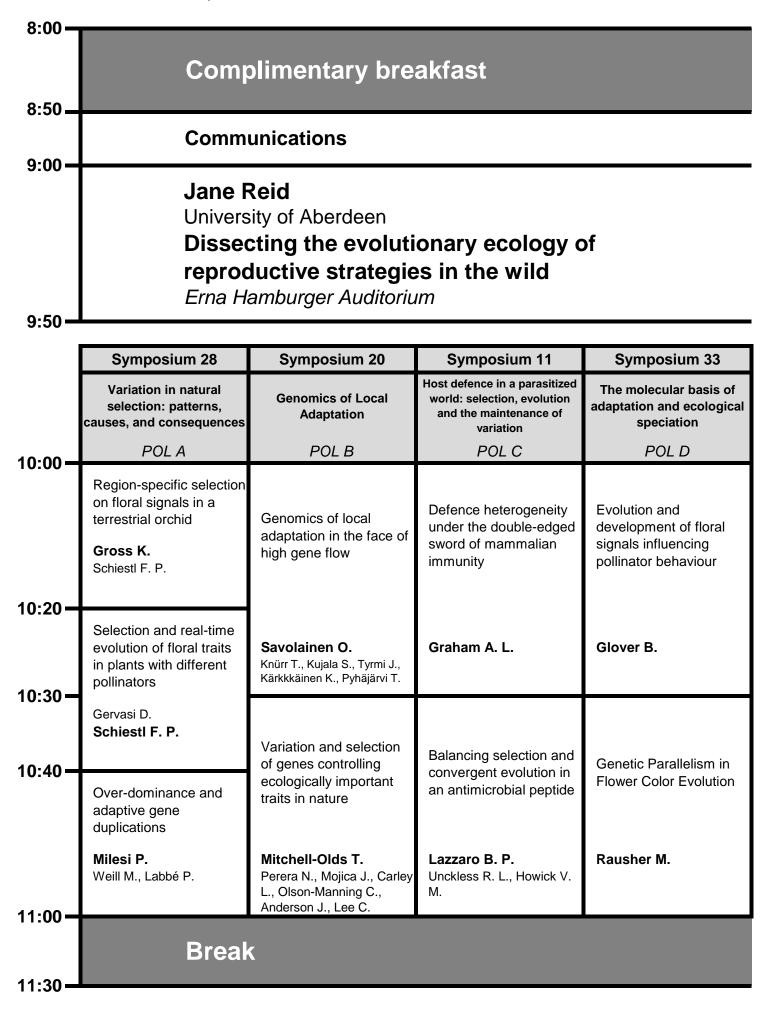


Poster session A

19:40-

Symposium 6	Symposium 13	Symposium 1	Symposium 5
Mating system evolution: unifying theory and test	Evolutionary analysis of ecological communities	Ecology and the Evolution of Sex	Novel insights in the genetics of sex-specific variation
MAX 410	MAX 415	GEN C	GEN B
The structure of the mating network as a framework to understand mating systems: Theory and tests	From neutral theory to competition-dispersal trade- off: Dispersal polymorphism effects on species diversity patterns	Evidence for inter- individual genetic transfers among the genus Adineta vaga	Trans-regulation of sexually discordant expression from the Drosophila melanogaster X chromosome
McDonald G. Spurgin L., Fairfield E., Richardson D., Pizzari T.	Laroche F. Jarne P. , Perrot T., Massol F.	Debortoli N. Li X., Tang C. Q., Hespeels B., Fontaneto D., Flot J., Van Doninck K.	Stocks M. Dean R., Rogell B., Friberg U.
The breakdown of self- incompatibility during a range expansion	Evolution of ecological communities through the lens of an island chronosequence	The Red Queen and the bdelloid rotifers: Host- parasite interactions in the long-term absence of sex	Sexual selection drives evolution and rapid turnover of male-biased genes
Encinas-Viso F. Pannell J., Young A.	Gillespie R. Rominger A., Lim J., Valdavinos F., Harte J., Goodman K., Gruner D., Shaw K., Price D.	Wilson C. Kriezis A., Penny T., Potter J., Barraclough T.	Harrison P. W. Wright A. E., Zimmer F., Dean R., Montgomery S. H., Mank J. E.
The intersection of the mating system and strong selection: Herbicide resistance is related to increased inbreeding in Ipomoea purpurea, the common morning glory		No evidence for parasites maintaining sex in natural stick insect populations	
Baucom R. Kuester A., Chang S.		Larose C. Schwander T.	
Inherited Inbreeding: Evidence of sex-specific, additive genetic variances in the degree of inbreeding Wolak M.			
Nietlisbach P., Keller L., Arcese P., Reid J.			

TUESDAY, AUGUST 11TH



Symposium 21	Symposium 30	Symposium 3	Symposium 8
The evolution of phenotypic plasticity within and across generations	Protein evolution: structural and functional perspective	The Evolution of Sex Chromosomes	Cooperation without kinship: from genomes to mutualisms
MAX 410	MAX 415	GEN C	GEN B
The Evolution of Epigenetic Inheritance	The thin line between conformational freedom and anarchy - negative epistasis and evolvability in TEM-1 beta- lactamase	Beetles, Birds, Snakes & Flies: The Diversity of Sex Chromosomes and their Evolution	Caught in the crossfire: Genome defense in light of genomic autoimmunity
Jablonka E.	Tawfik D.	Bachtrog D.	Blumenstiel J. Erwin A., Galdos M., Wickersheim M., Harrison C., Marr K.
How does plasticity influence adaptive evolution?	How do proteins evolve? Simulating evolution with in silico models of protein thermodynamics	Interactions Between A Master Regulator Of Sex Determination And Haploid Sex Chromosomes In The Evolution Of Dimorphic Sexes	The punishment wars
Ghalambor C.	Goldstein R. A.	Umen J. Miyagi A., Hamaji T., Geng S.	Kiers T.

TUESDAY, AUGUST 11TH

	Symposium 28	Symposium 20	Symposium 11	Symposium 33
	Variation in natural selection: patterns, causes, and consequences	Genomics of Local Adaptation	Host defence in a parasitized world: selection, evolution and the maintenance of variation	The molecular basis of adaptation and ecological speciation
11:30 —	POL A	POL B	POL C	POL D
11.30	Temporal fluctuation in the phenotypic optimum of laying date in a wild Blue tit population	Genetic variance associated with overwintering adaptation in a butterfly	Genome wide analysis of selection in immune genes within and among butterfly populations	The molecular basis of genic ecological speciation in sexually deceptive orchids
11:50 —	Marrot P. Garant D., Anne C.	Pruisscher P. Wheat C., Gotthard K.	Keehnen N. Wheat C.	Schlüter P. Sedeek K., Xu S., Shanklin J., Cozzolino S., Schiestl F.
11.50	There is more to pollinator- mediated selection than pollen limitation: Interaction intensity versus functional significance	Experimental evidence for mitochondrial genomic adaptation to climate	Functional variation at innate immune loci in the Seychelles warbler	Gene flow and the genetic architecture of speciation revealed by 1043 stick-insect genomes
	Sletvold N. Ågren J.	Camus M. Florencia Sgrò C. M., Wolff J. N., Dowling D.K.	Gilroy D.	Nosil P.
12:10 —	Local adaptation is prevented along patchy ecological gradients	Origin, history and local adaptation of the recent polyploid Capsella bursa- pastoris	Genetics of natural variation of Daphnia magna resistance to a bacterial pathogen	Loss of function mutations in MC4R drive adaptation of Astyanax mexicanus through hyperphagia
	Bridle J. Butlin R.	Lascoux M. Cornille A., Salcedo A., Kryvokhyzha D., Holm K., Lagercrantz U., Glémin S., Wright S.	Bento G. Routtu J., Bourgeois Y., Ebert D.	Rohner N. Aspiras A., Borowsky R., Tabin C.
12:30 —		The genomics of avian breeding time – an ecologically relevant trait for adaptation to climate change	Experimental evolution of host specificity by comparing single and multiple infections	Identifying the molecular basis of adaptation and genomic divergence in Heliconius butterflies
12:50 —		Gienapp P. Calus M. P.L., Laine V. N., van Oers K., Groenen M. A.M., Slate J., Visser M.E.	Schulte R. D. Bose J., Kloesener M. N.	Nadeau N. Pardo-Diaz C., Whibley A., Supple M., Joron M., McMillan O., Jiggins C.
12.30				
13:40 —	Lunc	h		

14:45

Symposium 21	Symposium 30	Symposium 3	Symposium 8
The evolution of phenotypic plasticity within and across generations	Protein evolution: structural and functional perspective	The Evolution of Sex Chromosomes	Cooperation without kinship: from genomes to mutualisms
MAX 410	MAX 415	GEN C	GEN B
An evolutionary model of maternal effects Hoyle R. Kuijper B.	Gene network re-wiring in the convergent evolution of a key innovation: egg dummies in cichlid fish Gu L. Salzburger W.	Baby sex chromosomes in the housefly Beukeboom L. W. Bopp D., Wimmer E., van de Zande L., Sharma A., Wu Y., Schenkel M., Visser	The origins, persistence and decay of bacterial mutualisms Henry L. Charles G.
		S., Francuski L.	
Paternal heat exposure causes immediate and inherited epigenetic response in Wild guinea pigs	Correlated substitutions are rare under molecular coevolution	Wolbachia bacterial endosymbionts and the evolution of sex determination in the isopod Armadillidium vulgare	'Currency' exchange underlying the long-term association between squid and bioluminescent bacteria
Weyrich A. Lenz D., Jeschek M., Chung T.H., Heeger F., Rübensam K., Goeritz F., Jewgenow K., Fickel J.	Talavera D. Lovell S., Whelan S.	Leclercq S. Thézé J., Giraud I., Chebbi M., Moumen B., Ernenwein L., Grève P., Gilbert C., Cordaux R.	Kremer N. Schwartzman J., Ruby E., McFall-Ngai M.
Genome methylation patterns across castes and generations in a parasitoid wasp	Disease-related mutations in proteins: A study of dynamically correlated networks and coevolved residue clusters	Why are there so many species with Y- autosome fusions?	Spatial exclusion of non- cooperators from released public goods stabilizes inter-specific cooperation
Shaham R. Keasar T. , Ben Schlomo R.	Karami Y. Amselem S., Laine E., Carbone A.	Kitano J. Pennell M., Kirkpatrick M., Otto S., Vamosi J., Peichel C.	Pande S. Kaftan F., Lang S., Germerodt S., Svatos A., Kost C.
	Complex phylogeny of aminoacyl-tRNA synthetases Popinga A. Bouckaert R., Wills P.		

The German Research Foundation (DFG) Funding programs for early

career researchers

TUESDAY, AUGUST 11TH

	Symposium 28	Symposium 20	Symposium 11	Symposium 33
	Variation in natural selection: patterns, causes, and consequences	Genomics of Local Adaptation	Host defence in a parasitized world: selection, evolution and the maintenance of variation	The molecular basis of adaptation and ecological speciation
14:45 —	POL A	POL B	POL C	POL D
14.40	Antagonistic coevolution with competing consumers alters the dynamics of selection over time	Genomics of local adaptation in the Mediterrenean blue tit Cyanistes caeruleus	Toll-like receptors in birds: Diversifying selection, pseudogenization and gene duplication	Multiple morphological and behavioural modifications converge into a function that promotes invasion and diversification within a new adaptive zone
	Frickel J. Becks L.	Szulkin M. Gagnaire P., Bierne N., Charmantier A.	Bainova H. Gutowska M. Weronika, Burt D. W., Vinkler M.	Crumière A. Khila A.
15:05 —	Stress response of	Utilizing large sampling	Diversity through	
15:15	mutation accumulation lines of the green algae Chlamydomonas reinhardtii across two environmental gradients	frames to investigate the genomic determinants of short-term adaptation in Mycobacterium tuberculosis	alternative splicing: Do Dscam1 splice variants respond to bacteria exposure?	Natural Arabidopsis BRX Loss-of-Function Alleles Confer Root Adaptation to Acidic Soil
	Kraemer S.	Hedge J.	Armitage S.	Hardtke C.
45.25	Morgen A., Keightley P., Colegrave N.	Walker T., Walker S., Crook D., Peto T., Wilson D.	Sun W., You X., Kurtz J., Schmucker D., Chen W.	
15:25 —	Geographical variation in predation pressure toward warning signals of an Arctiid moth Parasemia plantaginis	Signatures of selection in an admixed feral chicken population	Major-effect mutations provide resistance to viruses in natural Drosophila populations	The genomic architecture of adaptation and speciation in ecologically divergent forest trees (Populus spp.)
	Rönkä K. Rojas B., Burdfield-Steel E., Gordon S., Nokelainen O., Tasane T., Valkonen J., Mappes J.	Johnsson M. Gering E., Willis P., Getty T., Wright D.	Cao C. Cogni R., Magwire M., Jiggins F.	Paris M. Stölting K. N., Meier C., Heinze B., Castiglione S., Bartha D., Macaya- Sanz D., Gonzalez-Martinez S., Lexer
15:45 — 16:15 —	Break	(С.

Symposium 21	Symposium 27	Symposium 3	Symposium 8
The evolution of phenotypic plasticity within and across generations	Ecology and evolution of floral signals	The Evolution of Sex Chromosomes	Cooperation without kinship: from genomes to mutualisms
MAX 410	MAX 415	GEN C	GEN B
Non-genetic transmission and sex-linked inheritance of prenatal maternal effects in a precocial bird	The adaptive value of within-individual covariation between	Coevolution of the sex chromosomes in Drosophila melanogaster	How do beneficial microbiomes form and adapt within mutualisms?
Tschirren B. Ziegler A., Okuliarova M., Zeman M., Pick J., Giraudeau M.	floral signals and rewards	Lund-Hansen K. Morrow E. H., Abbott J. K.	Innocent T. Al-Bassam M., Schiøtt M., Yu D.W., Hutchings M. I., Boomsma J. J.
Does molecular pleiotropy constrain evolution, plasticity or both? A proteomic perspective in a salmonid fish metapopulation	Benitez-Vieyra S.	Evolution of an unusual sex determination system in a Mammal, the African pygmy mouse Mus minutoides	Mutualism in a community context: Lessons from ants, aphids and their gut microbiomes
Papakostas S. Vøllestad A., Bruneaux M., Aykanat T., Vanoverbeke J., Ning M., Primmer C. , Leder E.	Learning about natural variation of floral odors sets boundaries for	Saunders P. Ronce O., Crochet P., Veyrunes F.	Ivens A. B.F. Kiers E. Toby, Kronauer D. J.C.
Evolutionary and ecological plasticity in short order: Genome- wide evidence for in-situ evolution and adaptation in invasive Florida Burmese pythons	generalization among flowers with the same reward value	The PhyloSex project: Towards a better understanding of sex determination diversity and sex chromosome evolution in fish	Colony fusion as a route to cooperation without kinship in ant supercolonies
Castoe T. Card D., Schield D., Hunter M., Hart K.	Smith B. H. Locatelli F. F., Fernandez P. C.	Anderson J. Klopp C., Parrinello H., Journot L., Postlethwait J. H., Guiguen Y., Schartl M.	Hørsving E. B.M. Pedersen L. S., Huszár D. B., Pontieri L., Boomsma J. J., Pedersen J. Søe

TUESDAY, AUGUST 11TH

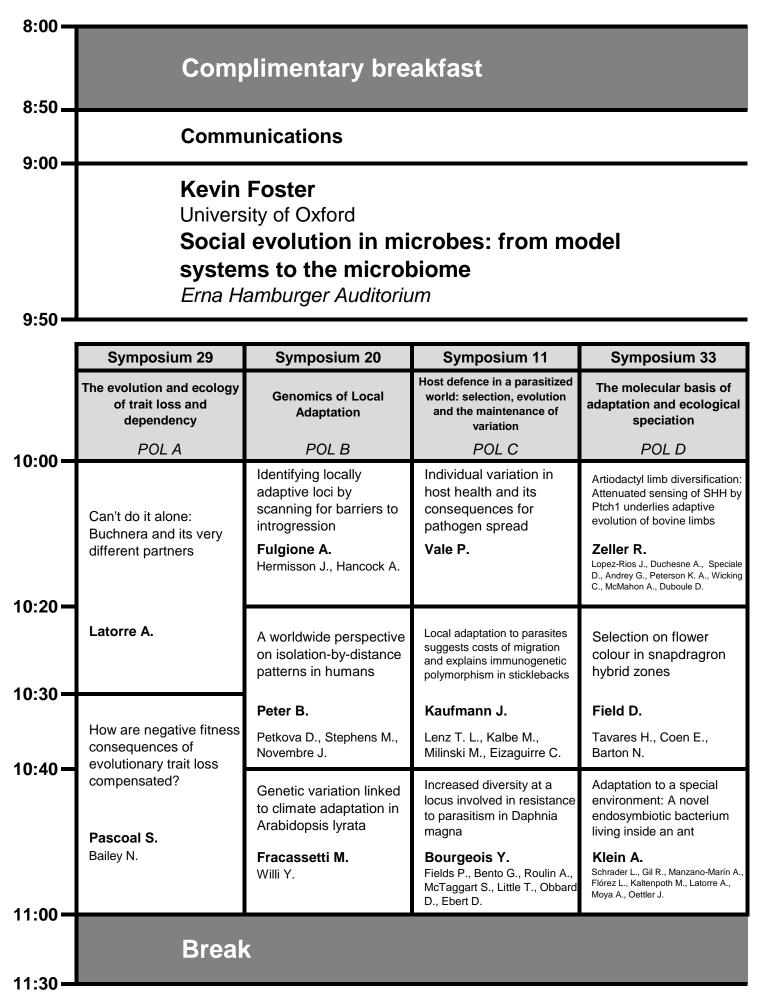
	Symposium 28	Symposium 20	Symposium 11	Symposium 33
	Variation in natural selection: patterns, causes, and consequences	Genomics of Local Adaptation	Host defence in a parasitized world: selection, evolution and the maintenance of variation	The molecular basis of adaptation and ecological speciation
16:15 —	POL A	POL B	POL C	POL D
10.13	Environmental suitability influences the evolvability of morphological traits: Linking biogeography and evolutionary dynamics	Experimental genomic tests for pollution driven rapid evolution in the Mediterranean mussel	Bumblebee immune response upon faecal transplant and microbiota community structure in host parasite interactions	The origin and spread of premating isolation driving incipient speciation in Mimulus
16:35 —	Martinez-Padilla J. Estrada A., Early R., Garcia Gonzalez F.	Štambuk A. Dennis S., Polović D., Šrut M., Soria- Carrasco V., Gompert Z., Baković V., Klobučar G., Nosil P.	Näpflin K. Schmid-Hempel P.	Streisfeld M. Stankowski S., Sobel J.
10.55	Climate-change driven evolution of an ornament in a wild bird	Parallel and non-parallel genomic signatures of selection in three-spine sticklebacks from different regions	Evolution of anti- parasitic behaviors in monarch butterflies	Sexual isolation and the genetics of chemical cues involved in speciation in Heliconius butterflies
16:55 -	Evans S. Gustafsson L.	Liu S. Ferchaud A., Hansen M. M.	de Roode J.	Mérot C. Davey J., Merrill R., Barker S., Leppik E., Frérot B., Jiggins C., Joron M.
16:55		Studying mutation load and purifying selection in natural populations of lodgepole pine and interior spruce	The effectiveness and costs of pathogen resistance strategies in a long-lived host	Key Physiological Innovations during Colonizations of Fresh Water and Land
17:15 —		Conte G. Yeaman S., Hodgins K., Aitken S., Rieseberg L., Whitlock M.	Susi H. Laine A.	Lee C.E. Eyun S., Posavi M., Gelembiuk G., Remfert J., Charmantier G., Charmantier-Daures M.
		Extreme local adaptation in Drosophila chemosensory perception	Trade-off between dual roles of the gut in nutrient acquisition and immune defense: Experimental evolution and physiological basis	Distinct genetic mechanisms of parallel speciation in phytophagous ladybird beetles
		Arguello J. Roman Cardoso-Moreira M., Mohammed J., Grenier J.K., Gottipati S., Clark A. G., Benton R.	Kawecki T. Vijendravarma R.	Matsubayashi K. Soria-Carrasco V., Gompert Z., Villoutreix R., Muschick M., Togashi A., Katakura H., Ueno H., Nosil P.
17:35 —				
17:40 -				

Meet the Editors

19:00

Symposium 21	Symposium 27	Symposium 3	Symposium 35
The evolution of phenotypic plasticity within and across generations	Ecology and evolution of floral signals	The Evolution of Sex Chromosomes	Open symposium
MAX 410	MAX 415	GEN C	GEN B
Bridging Ecology and Evolution by Symbiotic and Epigenetic Mechanisms	Paternity analysis reveals mating patterns in an Antirrhinum hybrid zone incorporating sibships and phenotypes	Evolution of sex- determining modes in amniotes: Transitions, stability and ancestral state	Specialist and generalist oviposition strategies in butterflies: Maternal care or precocious young?
Soen Y.	Ellis T. Field D., Barton N.	Kratochvil L. Rovatsos M., Altmanova M., Vukic J., Pokorna M.	Schäpers A. Nylin S., Carlsson M., Janz N.
Plastic vs genetic responses to temperature acclimation: quantitative traits to transcripts	The double role of Salvia viridis' extrafloral display	The evolution of sexual specialization in an artificial dioecious fungus	Factors affecting the evolution of host- switching in infectious diseases
Clemson A. Telonis-Scott M. , Sgro C.	Gerchman Y. Keasar T.	Nieuwenhuis B. Johannesson H., Immler S.	Wang A. Meier M., Balloux F.
Adult transcriptome variation is determined by egg to adult development time in a desert drosophilid	Heritability of floral volatiles and pleiotropic responses to artificial selection in Brassica rapa		The long reach of a tapeworm parasite in its social host
Etges, W.J. de Oliveira C., Rajpurohit S., Gibbs A.	Zu P. Schiestl F., Blankenhorn W.		Beros S. Jongepier E., Hagemeier F., Foitzik S.
Within and across generation life-history responses to nutritional stress during development	Are florivores agents of selection on floral colour? Review and Synthesis		Wing pigmentation and immune response in the Glanville fritillary butterfly
Saastamoinen M.	Ghara M. Sapir Y.		Rosa E. Saastamoinen M.

WEDNESDAY, AUGUST 12TH



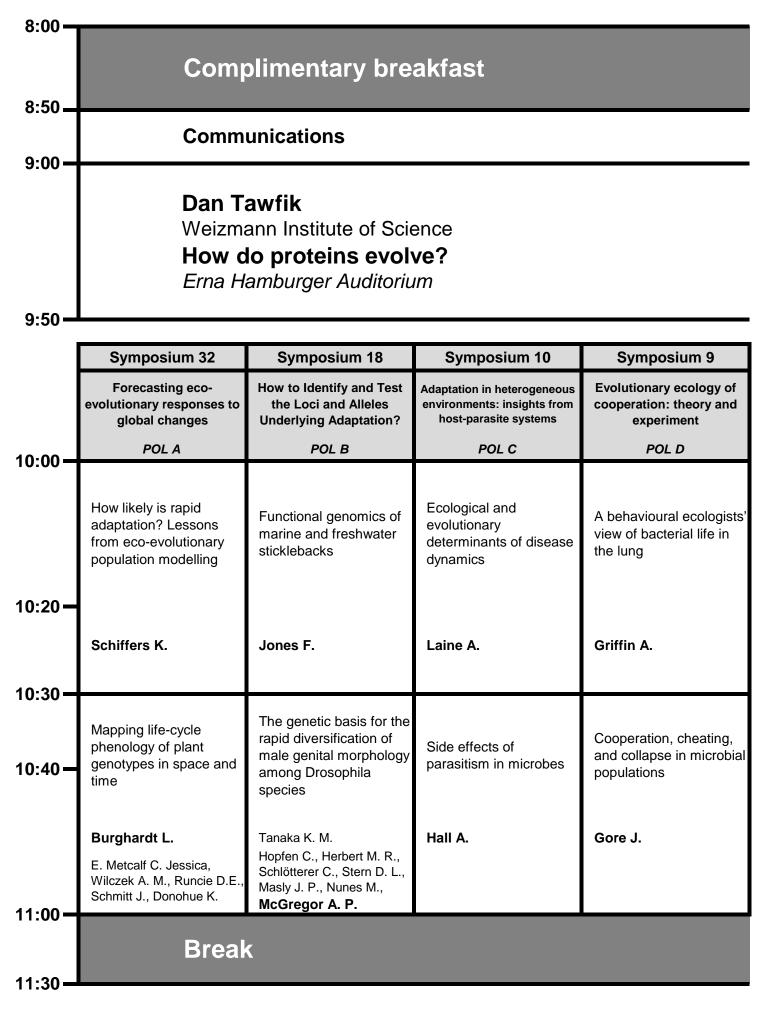
Symposium 21	Symposium 7	Symposium 2	Symposium 35
The evolution of phenotypic plasticity within and across generations	Social Evolution & Sexual Conflict	What is new in the study of sex allocation?	Open symposium
MAX 410	MAX 415	GEN C	GEN B
The evolution of transgenerational integration of information in heterogeneous environments Leimar O. McNamara J.	Sexual conflict and social behaviour	The crucial link between 'how' and 'why' in the evolution of environmental sex determination	Drosophila wing shape Integration: A multi-level approach Benitez H. Klingenberg C.
Maternal effect on worker size in the seed harvester ant Pogonomyrmex rugosus	Chapman T.	Schwanz L.	The evolution of cuticular hydrocarbon profiles in ants
Paolucci S.		Sex allocation in	Schmitt T.
Czech B., Hannon G., Schwander T., Keller L.	Inclusive fitness and sexual conflict	simultaneous hermaphrodites: Lessons from an	Blaimer B., Menzel F.
Pollution-induced non- genetic inheritance and its effect on eco- evolutionary dynamics Plaistow S. Chan B., Collin H., Paterson S.	Gardner A.	emerging model organism Schärer L.	Queen signalling in the honeybee Richardson T.

WEDNESDAY, AUGUST 12TH

	Symposium 29	Symposium 20	Symposium 11	Symposium 33
	The evolution and ecology of trait loss and dependency	Genomics of Local Adaptation	Host defence in a parasitized world: selection, evolution and the maintenance of variation	The molecular basis of adaptation and ecological speciation
11:30-	POL A	POL B	POL C	POL D
11.30	Genomic signatures of sexual trait decay in an asexual wasp	The role of host plant adaptation in genomic divergence and diversification of Timema stick insects	Variation in phenotypic selection on quantitative immune defence traits in a freshwater snail	The hemoglobin repertoire in the order of Gadiformes linked to depth adaptation
11:50-	Kraaijeveld K. Anvar Y., Frank J., den Dunnen J., Ellers J.	Muschick M. Soria-Carrasco V., Dennis S. R., Gompert Z., Comeault A. A., Feder J. L., Nosil P.	Langeloh L. Jokela J., Seppälä O.	Baalsrud H.T. Tørresen O. Kristian, Malmstrøm M., Salzburger W., Jakobsen K. Sigurd, Jentoft S.
11.00	Explaining siderophore loss, cross-use and exploitation in natural Pseudomonas communities	The flexible genome: Uncovering the regulatory basis of phenotypic plasticity	Diversity and divergence of immune genes in four wild rodent species	Molecular structure and functional diversity of a naturally polymorphic enzyme: PGI of Colias
12:10-	Butaite E. Kuemmerli R.	Oostra V. Saastamoinen M., Zwaan B. J., Wheat C.W.	Turner A. Begon M., Pedersen A., Paterson S.	Hill J. Watt W.
12.10-	Strong selection for a loss of metabolic autonomy in bacteria	Ecological genetics of local adaptation in Arabidopsis thaliana	Constitutive protection, mismatch, and secondary exposure in transgenerational immune memory in the bumblebee Bombus terrestris	The genetic basis of parallel speciation in a marine snail
10-00	D'Souza G. Waschina S., Kost C.	Ågren J. Oakley C. G., Lundemo S., Schemske D.W.	Barribeau S. Schmid-Hempel P., Sadd B.	Westram A.M. Panova M., Galindo J., Butlin R.
12:30 —	Loss and (re)gain of color vision in deep-sea fishes: Uncovering the secrets of 100 teleost genomes		Intracellular endosymbiont selection contributes to Drosophila adaptation to viral infection	
12:50 —	Musilova Z. Cortesi F., Malmstrøm M., Tørresen O., Jentoft S., Salzburger W.		Faria V. G. Martins N. E., Magalhães S., Nolte V., Schlötterer C., Teixeira L., Sucena É.	
12.00-	Lunc	h and Excursio	ons	

Symposium 21	Symposium 7	Symposium 2	Symposium 35
The evolution of phenotypic plasticity within and across generations	Social Evolution & Sexual Conflict	What is new in the study of sex allocation?	Open symposium
MAX 410	MAX 415	GEN C	GEN B
Genetic basis of variation in thermal plasticity for body pigmentation Lafuente E.	The influence of relatedness on male entomopathogenic nematode aggression	Sex allocation, juvenile mortality & the costs imposed by offspring on parents and siblings Kahn A.	Transcriptomic underpinning of lifespan differentiation between castes in ants Lucas E.
Beldade P.	Abigail M., Christine G.	Jennions M., Kokko H.	Riba-Grognuz O., Corona M., Wurm Y., Keller L.
Transgenerational effects of diet through the maternal and paternal lineage	Local mate competition mediates sexual conflict over sex ratio in a haplodiploid mite	The evolution of unisexual flowers within inflorescences	Adaptive landscapes of transcription factor binding sites
Zizzari Z.V. van Straalen N. M., Ellers J.	Magalhaes S. Macke E., Olivieri I.	Torices R. Afonso A., Méndez M.	Aguilar-Rodríguez J. Payne J. L., Wagner A.
Age-dependent plasticity in reproductive effort is driven by metabolic reserves and mating opportunities, not adaptive allocation strategies	Male Drosophila melanogaster fight more, and sire shorter- lived daughters, when rival male are unrelated and unfamiliar	Genomic conflict over sex allocation in the parasitoid wasp Nasonia vitripennis	Why shuffle genes? The dynamics of integron evolution in changing environments
Houslay T. Houslay K., Rapkin J., Hunt J., Bussière L.	Carazo P. Perry J., Johnson F., Pizzari T., Wigby S.	Cook N. Ritchie M. G., Pannebakker B. A., Tauber E., Shuker D. M.	Engelstädter J. Harms K., Johnsen P. Jarle
	How sex-biased dispersal affects the resolution of intralocus sexual conflict	Sperm storage and the size advantage model of sex allocation in the protandrous sex-changer Crepidula fornicata	
	Kuijper B. Johnstone R. A.	Broquet T. Barranger A., Billard E., Bestin A., Berger R., Honnaert G., Viard F.	

THURSDAY, AUGUST 13TH



Symposium 24	Symposium 26	Symposium 4	Symposium 35
Evolution of behavioural variation	Real-time bacterial evolution in vivo and in vitro	Evolutionary consequences of sexually antagonistic selection	Open symposium
MAX 410	MAX 415	GEN C	GEN B
Genetic architecture of aggression and cooperation in the California harvester ant Pogonomyrmex californicus	The role of epistasis in the evolution and epidemiology of multidrug-resistant tuberculosis	Comparing within and between-sex pleiotropy as constraints on the evolution of male and female gene expression	A theoretical study of sympatric divergence of whitefish in Scandinavia Thibert-Plante X. Amundsen P., Kahilainen K., Praebel K., Østbye K., Gavrilets S.
Gadau J. Fewell J., Mikheyev A.	Gagneux S.	Chenoweth S.	Genomic imprinting and its systematic perturbation in abortive interspecific tomato seeds
Convergent molecular signatures of plastic phenotypes in eusocial evolution	Convergent evolution and adaptation of Pseudomonas aeruginosa within patients with cystic	Sexually antagonistic epigenetic marks	Florez Rueda A.M. Margot P., Schmidt A., Widmer A., Grossniklaus U., Städler T.
Sumner S.	fibrosis Marvig R.L. Sommer L. M., Molin S., Johansen H.K.	Rice W.	Why are ring species so rare? Martins A. B. de Aguiar M.A.M.

THURSDAY, AUGUST 13TH

	Symposium 32	Symposium 18	Symposium 10	Symposium 9
	Forecasting eco- evolutionary responses to global changes	How to Identify and Test the Loci and Alleles Underlying Adaptation?	Adaptation in heterogeneous environments: insights from host-parasite systems	Evolutionary ecology of cooperation: theory and experiment
44.20	POL A	POL B	POL C	POL D
11:30-	The accumulation of mutation load and range dynamics	Functional characterization of an adaptive cis- regulatory polymorphism in Drosophila melanogaster	Parasite evolution in heterogeneous and spatially structured host populations	Rock-paper-scissors dynamics maintain cooperation and diversity in well-mixed bacterial communities
11:50-	Henry R. Coulon A., Bartoń K., Travis J.	Parsch J. Glaser-Schmitt A.	Lion S.	Kümmerli R. Inglis F., Biernaskie J., Gardner A.
11.50-	Local adaptation versus inbreeding depression in marginal populations of a Mediterranean alpine plant: Are they worthy of conservation in a context of climate change?	From genome to function: Timing adaptations in the intertidal insect Clunio marinus	Relative fitness of a generalist parasite on alternative hosts: A cross-infestation experiment of the hen flea among sympatric passerine hosts	Sibling cooperation mitigates effects of low parental care in earwigs: A new perspective on the early evolution of family life
12:10-	Morente-López J. García-Fernández A., Lara-Romero C., Rubio-Teso M.L., Ruiz R., Sánchez A., Iriondo J.M.	Kaiser T. S.	Appelgren A. McCoy K., Richner H.	Kramer J. Thesing J., Meunier J.
12.10	Forecasting the demographic and evolutionary response of perennial Alpine plants	Characterization of the wing colour patterning supergene in a mimetic butterfly	Parasite evolution in a host sexually dimorphic world	Kin Selection and Maternal Effects: The confusion, consequences and case study
40.00	Cotto O. Thuiller W., Guillaune F.	Saenko S. Prunier F., Llaurens V.	Duneau D. Buchon N., Lazarro B.	Thomson C. Hadfield J.
12:30-	Combining demography with quantitative and population genetics to infer the adaptive potential of small populations			The role of antimicrobials in the evolution of cooperation
40.50	Vincenzi S. Crivelli A., Garza C.			Vasse M. Torres-Barceló C., Hochberg M. E.
12:50 —				
13:40 —	Lunc	h		
14:45				

Symposium 24	Symposium 26	Symposium 4	Symposium 35
Evolution of behavioural variation	Real-time bacterial evolution in vivo and in vitro	Evolutionary consequences of sexually antagonistic selection	Open symposium
MAX 410	MAX 415	GEN C	GEN B
Bold individuals live in risky environments: Nature, nurture or both?	Omics of endosymbiosis adaptation during experimental evolution of legume symbionts	Resource competition and the evolution of sexual dimorphism	Male barn swallows mimic nestlings to attract females
Holtmann B. Nakagawa S.	Clerissi C. Capela D., Marchetti M., Li F., Torchet R., Cruveiller S., Gris C., Rocha E. P.C., Masson-Boivin C.	De Lisle S. Rowe L.	Hasegawa M. Arai E., Watanabe M., Nakamura M.
Direct and indirect genetic effects shape the social phenotype of great tits	Rapid evolution of bacterial pathogens co- infecting an animal host	Sexual selection drives short- and long-term evolution of the avian Z chromosome	How sick are sexy males? Testing Hamilton & Zuk hypothesis with a meta-analytical approach
Radersma R. Firth J. A., Garroway C. J., Voelkl B., Sheldon B. C.	King K. Brockhurst M., Paterson S., Hurst G.	Wright A. Harrison P., Zimmer F., Montgomery S., Pointer M., Mank J.	Prokop Z. Buczek M. , Plesnar- Bielak A., Nakagawa S., Michalczyk L.
Baffling: An alternative signalling strategy using self-made tools	Phylodynamic analysis of a mycobacterium tuberculosis outbreak	Insights on Sexually Antagonistic Selection in the Human Genome	Worldwide patterns of bird colouration on islands and associated mechanisms
Deb R. Balakrishnan R.	Kühnert D. Stucki D., Coscolla M., Fenner L., Stadler T., Gagneux S.	Lucotte E. Laurent R., Heyer E., Ségurel L., Toupance B.	Doutrelant C. Paquet M., Renoult J., Crochet P., Grégoire A., Covas R.
The influence of age and gene expression on division of labor in a social insect	Parallel evolution of a global regulator ameliorates the cost of plasmid carriage		
Kohlmeier P. Susanne F., Barbara F.	Harrison E. Paterson S., Spiers A., Brockhurst M.		
	Meet the U.S. National Science Foundation (NSF)		

THURSDAY, AUGUST 13TH

	Symposium 32	Symposium 18	Symposium 10	Symposium 9
	Forecasting eco- evolutionary responses to global changes	How to Identify and Test the Loci and Alleles Underlying Adaptation?	Adaptation in heterogeneous environments: insights from host-parasite systems	Evolutionary ecology of cooperation: theory and experiment
14:45 —	POL A	POL B	POL C	POL D
14.45	Coevolution of genetic variance and species' range in a changing environment	An island model for unraveling adaptive history: Cape Verde Arabidopsis	Parasitoid adaptation to hosts with symbiont- conferred resistance	Testing inclusive fitness theory in a lower termite
	Polechova J. Barton N.	Fulgione A. Arnoux S., Hermisson J., Hancock A.	Dennis A. Vorburger C.	Korb J. Hoffmann K.
15:05 —			Endosymbiotic bacteria	An evolutionarily significant
15:15 —	The role of sex and recombination in evolutionary rescue	The Genetic Architecture of Recombination Rate Variation in Drosophila melanogaster	protect aphids against natural enemies in a natural wet meadow habitat	unicellular strategy in response to starvation in Dictyostelium social amoebae
	Uecker H. Hermisson J.	Singh N. Hunter C.	Hrcek J. Godfray H. Charles J.	Nizak C. van Baalen M., Dubravcic D.
15:25 —	Environmental marginality and the evolutionary potential of peripheral populations in Arabidopsis lyrata	Tracking genomic changes during rapid life history evolution	All aboard! Tracking host-parasite historical associations in the Canary Islands	Cheating on the edge: Spatial self-organization promotes cooperation in expanding bacterial colonies
	Lee-Yaw J. Willi Y.	Therkildsen N. O. Munch S. B, Conover D. O., Palumbi S.R.	Jorge F. Perera A., Poulin R., Roca V., Carretero M. A.	Jousset A. Hille A., Scheu S., Meyer K.
15:45 — 16:15 —	Break	(

Symposium 24	Symposium 25	Symposium 4	Symposium 35
Evolution of behavioural variation	Groups versus individuals: levels of selection in microbial systems	Evolutionary consequences of sexually antagonistic selection	Open symposium
MAX 410	MAX 415	GEN C	GEN B
DNA methylation in the clonal raider ant Cerapachys biroi Libbrecht R. Oxley P., Keller L., Kronauer D.	Functional trade-offs and phenotypic diversity in cellular migration	Field estimates of parentage reveal sexually antagonistic selection on body size in a population of Anolis lizards Duryea K. Bergeron P., Clare-Salzler Z., Calsbeek R.	Inference of past historical events using ABC and MCMC methods on population genetics data sets Austerlitz F.
Correlated experimental evolution of behaviour and life history in Drosophila	Emonet T.	Identification and characterisation of sexually antagonistic loci in Drosophila melanogaster	Unravelling the evolutionary history of the mosquito disease vector Aedes aegypti; Lineage diversification and successful worldwide colonisation
Hoedjes K. Kapun M., Zwaan B., Flatt T., Keller L.	Bacterial Genomic	Hill M. Morrow T., Fowler K., Reuter M.	Bennett K.
The social niche experienced early in life influences the behavioural phenotype	Diversity in Light of Environmental Selection	Male-male competition in the pistil causes rapid sexually antagonistic evolution in a plant and a correlated response on a mating- system related floral trait	Running faster or jumping further? Analysis of adaptive walks in various classes of fitness landscapes
Balzarini V. Taborsky M., Frommen J. G.	Polz M.	Lankinen Å. Hydbom S., Strandh M.	Trubenova B. Paixao T.

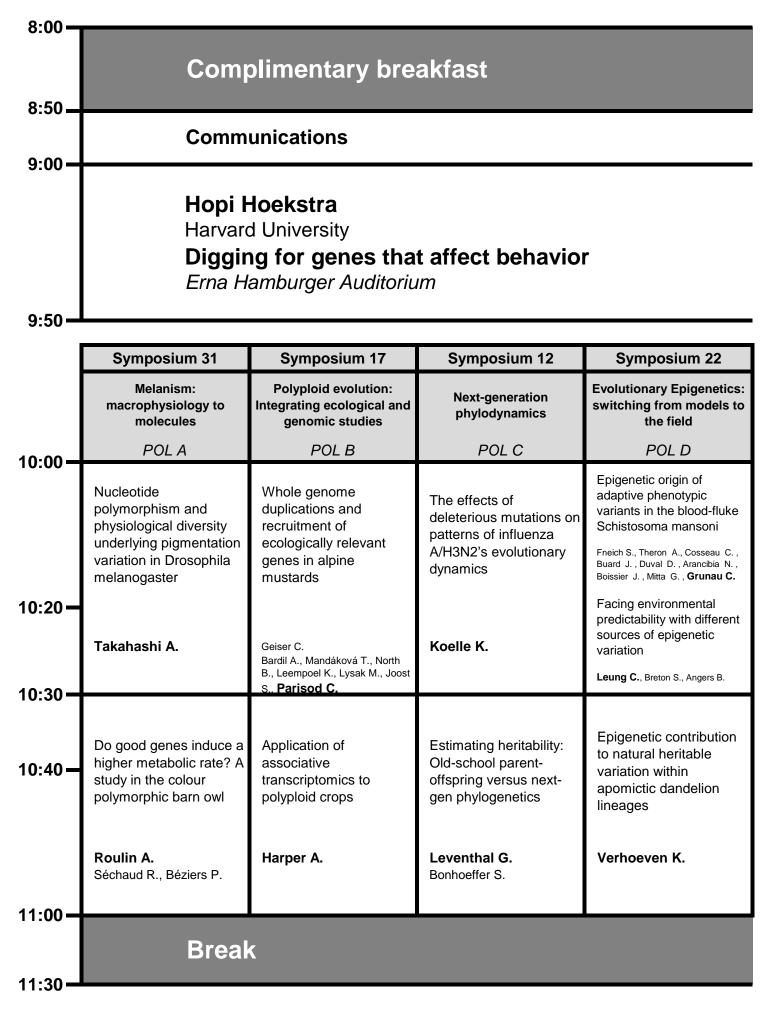
THURSDAY, AUGUST 13TH

	Symposium 32	Symposium 18	Symposium 10	Symposium 9
	Forecasting eco- evolutionary responses to global changes	How to Identify and Test the Loci and Alleles Underlying Adaptation?	Adaptation in heterogeneous environments: insights from host-parasite systems	Evolutionary ecology of cooperation: theory and experiment
16:15-	POL A	POL B	POL C	POL D
10.13	Evolution of seasonal timing in a changing world: How empirical evidence and phenological models can help us to forecast the rate of adaptation	The genetic basis of parallel evolution in an introduced species	Population size shape reciprocal adaptations in the experimental host- parasite coevolution	Long Life, Promiscuity and the Origin of Cooperation in Birds
	Salis L. Visser M.	Gould B. Stinchcombe J.	Papkou A. Schalkowski R., Barg M., Braker I., Schulenburg H.	Downing P.
16:35 —	From genes to ecosystems: The molecular mechanisms of eco-evolutionary feedbacks from rapid adaptation of herbivore consumers to nutrient limitation	A Clinal Polymorphism in Insulin Signaling Has Major Effects on Drosophila Life History	Testing for genetic differentiation along altitudinal gradients in ticks (Ixodes ricinus)	Diversity in parent- offspring communication in birds: Shifting between signals and cues
	Papakostas S. Declerck S.	Durmaz E. Rajpurohit S., Betancourt N., Schmidt P.S., Flatt T.	Lemoine M. Tschirren B.	Caro S. Griffin A., Hinde C., West S.
16:55 —	Entire a time and batters and			Developie e e ciel
	Estimating evolutionary potential in the wild: Role and stability of the G matrix		Eco-evolutionary dynamics in coevolving host-virus systems	Developing social evolution theory into a set of tools for analyzing microbial data
47.45	Teplitsky C. Chantepie S., Moller A. P., Nakagawa S., de Lope F., Gustafsson L., Mills J. A., Wheelwright N., Charmantier A.		Frickel J. Becks L.	Smith J.
17:15	Adaptation lags in bet- hedging traits during periods of climate change		Host age structure as a source of heterogeneity in host-parasite interactions	Fitness costs in spatially structured environments
	Van Dooren T. J. M.		Ben-Ami F.	Débarre F.
17:35				
17.40 -				



Symposium 24	Symposium 25	Symposium 4	Symposium 35
Evolution of behavioural variation	Groups versus individuals: levels of selection in microbial systems	Evolutionary consequences of sexually antagonistic selection	Open symposium
MAX 410	MAX 415	GEN C	GEN B
Genomic changes associated with behavioural plasticity: Selection for improved learning behaviour	Is HIV short-sighted? Insights from a multistrain nested model	Sex biased expression as a sexually antagonistic trait	The molecular mechanisms and reversibility of fisheries- induced evolution
Liefting M. Kraaijeveld K., Le Lann C., Wertheim B., Ellers J.	Lythgoe K. Pellis L., Fraser C.	Veltsos P. Fang Y., Cossins A. R., Snook R.R., Ritchie M.G.	Uusi-Heikkilä S. Sävilammi T., Papakostas S., Arlinghaus R., Primmer C.
Maladaptive reproductive investment and behavioral variation in urban habitat	Spatial constrains on public good production during biofilm development	Sexual conflict and sex- biased gene expression throughout development	Density dependence determines the role of extrinsic mortality in shaping life history traits
Demeyrier V. Grégoire A., Lambrechts M., Charmantier A.	Hölscher T. Bartels B., Gallegos- Monterrosa R., Kovacs A.T.	Ingleby F.	Dańko M. J. Burger O., Kozłowski J.
The role of state- behavior feedbacks in explaining adaptive personality differences	Migrating together: How Bacillus subtilis uses division of labor to colonize surfaces	Evolution of haploid selection in predominantly diploid organisms	Sex-specific evolution of learning performance, locomotion, reproduction and lifespan in an outcrossing nematode
Moiron M. Mathot K. J., Dingemanse N. J.	van Gestel J. Vlamakis H., Kolter R.	Otto S. P. Scott M. F., Immler S.	Zwoinska M. Lind M., Cortazar M., Ramsden M., Maklakov A.
Behavioural interactions of a planktonic crustacean with pond sediments	Experimental evolution of increased efficiency through serial propagation in emulsion	Sexually antagonistic selection in canaries not generated by testosterone- related intralocussexual conflict	A comprehensive phylogenetic study of mammalian embryology and skeletogenesis reveals the altricial life history of the placental ancestor, modularity and a brain- bone development link
Arbore R. Mushegian A., Andras J., Ebert D.	Rabbers I. Bruggeman F., Bachmann H., Teusink B.	Iserbyt A. Eens M., Müller W.	Sánchez-Villagra M. Werneburg I., Laurin M., Koyabu D.

FRIDAY, AUGUST 14TH



Symposium 23	Symposium 16	Symposium 19	Symposium 35
Emerging 'models' in evolutionary and ecological neurobiology	Evolutionary consequences of selfish genetic elements	Ignoramus et Ignorabimus? How much genome scans can and should tell us about evolution	Open symposium
MAX 410	MAX 415	GEN C	GEN B
Genetic and neural basis for the evolution of schooling behavior in sticklebacks	Whole genome meiotic drive in Arthropods	The promise of reverse ecology	The genetic sex determination system predicts adult sex ratio in tetrapods Kirkpatrick M. Pipoly I., Bókony V., Székely T., Liker A.
Peichel C. L. Greenwood A. K., Wark A. R., Mills M.G.	Ross L.	Rockman M.	A quantitative genetic signature of senescence in a short-lived perennial plant
Using live bearing fish as short generation time	Origin, evolution and consequences of sex	Human adaptation to life	Pujol B. Marrot P., Pannell J.
models in the study of vertebrate brain evolution	chromosome drive in stalk-eyed flies	in the high arctic	Bauplan constraints on the evolution of lifespan in Vertebrates
Kolm N.	Wilkinson G. A. Reinhardt J., Paczolt K. A.	Nielsen R.	Scheuerlein A.

FRIDAY, AUGUST 14TH

	Symposium 31	Symposium 17	Symposium 12	Symposium 22
	Melanism: macrophysiology to molecules	Polyploid evolution: Integrating ecological and genomic studies	Next-generation phylodynamics	Evolutionary Epigenetics: switching from models to the field
11.20	POL A	POL B	POL C	POL D
11:30 —	Tests of the thermal melanism and melanisation desiccation- resistance hypotheses in New Zealand Hemideina maori (Orthoptera: Stenopelmatidae)	Zinc accumulation, transcriptomics and asymmetric adaptation in the allopolyploid Arabidopsis kamchatica	New routes to phylogeography	Importance of pollution induced epigenetic inheritance for phenotypic diversification in Daphnia pulex
11:50 -	King K. Sinclair B., Waters J., Wallis G.	Paape T. Hatakeyama M., Sese J., Shimizu-Inatsugi R., Shimizu K.	De Maio N. Wilson D.	Collin H. Paterson S., Plaistow S.
11.00	Effects of MC1R gene on sexual dimorphism in barn owls and the potential conflict between natural and sexual selection on melanin-based colorations	Evolutionary analysis and demographic inference for polyploid genomes using ABC	Heterogeneity in antibody range and the antigenic drift of influenza A viruses	Associations of climate with DNA methylation polymorphisms provide evidence of local response to environment in a California oak, Quercus lobata
12:10 —	San-José Garcia L.M. Ducrest A., Ducret V., Béziers P., Simon C., Wakamatsu K., Roulin A.	Roux C. Pannell J.	Gomes G.	Sork V. Gugger P.
12.10	Could melanin-based plumage colouration be adaptive in environments polluted with trace metals?	Molecular basis of ecological diffusion after recurrent allopolyploidization in Dactylorhiza	Phylodynamic analysis of poliovirus outbreak	A role for methylation in responding to environmental stress in a wild rodent
12:30 —	Chatelain M. Gasparini J., Frantz A.	Paun O. Balao F., Lorenzo M., Diehl D., Hao B., Trucchi E., Hedrén M.	Li L. Grassly N. C., Fraser C.	Sims A. van Cann J. , Koskela E., Mappes T., Watts P.
12.00	Larval UV exposure impairs adult immune function through a trade-off with larval investment in cuticular melanin	Whole genome duplication events and evolution of the self-incompatibility system are strongly associated within the Brassicaceae	Phylodynamic inference for bacterial and viral populations using BEAST 2	Epigenetic divergence and parallel evolution in Heliosperma pusillum (Caryophylaceae)
12:50 -	Debecker S. Sommaruga R., Maes T., Stoks R.	Vekemans X. Henocq L., Castric V., Poux C.	Vaughan T. Leventhal G., Drummond A., Welch D., Stadler T., French N.	Trucchi E. Flascher R., Romero M. Lorenzo, Frajman B., Schönswetter P., Paun O.
13:40 -	Lunc	h		
13.40		Members meeting amburger Auditoriu		
14:45				

Symposium 23	Symposium 16	Symposium 19	Symposium 35
Emerging 'models' in evolutionary and ecological neurobiology	Evolutionary consequences of selfish genetic elements	Ignoramus et Ignorabimus? How much genome scans can and should tell us about evolution	Open symposium
MAX 410	MAX 415	GEN C	GEN B
Innate differences in auditory perception and reproductive isolation in an avian species pair Wheatcroft D.	Mating system shifts and transposable element evolution Ågren J.A. Wright S. I.	Genomic basis of the evolution and variation in Drosophila immunity against parasitoids Wertheim B. Salazar-Jaramillo L., Gerritsma S., Jalvingh K.M.	Early-life reproduction is associated with increased mortality risk but enhanced lifetime fitness in humans Lummaa V. Hayward A., Nenko I.
From the jungle to the barn: Independent genetic control for increased brain and body size and Mosaic brain evolution in chickens during domestication Henriksen R. Andersson L., Jensen P., Wright D.	Spore killer genomics: Elucidating causes and consequences meiotic drive in Neurospora Svedberg J. Molnar R. I., Hammond T. M., Johannesson H.	A complementary method to genome scans for selection against maladaptive gene flow Aeschbacher S. Coop G.	Repair or reproduce? Trying to solve an open question - an experimental study on zebra finches Sudyka J. Casasole G., Rutkowska J., Cichoń M.
Evolution of acid- sensing olfactory circuits in Drosophila Prieto-Godino L. Rytz R., Cruchet S., Abuin L., Bargeton B., Silbering A., Ruta V., Dal Peraro M., Benton R.	The molecular basis of paris sex ratio meiotic drive in Drosophila simulans Helleu Q. Gérard P. R., Dubruille R., Ogereau D., Bastien S., Prud'homme B., Loppin B., Montchamp-Moreau C.	The genomic consequences of local adaptation in deer mice Pfeifer S. P. Laurent S., Foll M., Peterson B., Jensen J. D., Hoekstra H. E., Barrett R. D. H.	Reproductive costs in males: Does it really matter? Gamelon M. Bleu J., Sæther B.
Communication scenes of weakly-electric fish recorded in natural habitats challenge sensory processing Benda J. Henninger J., Krahe R.	Genome size variation and song attractiveness in grasshoppers: Sexual selection against large genomes? Schielzeth H. Streitner C., Lampe U., Franzke A., Reinhold K.	The genetic architecture of recombination rate variation in a wild population Johnston S. Slate J., Pemberton J.	Slow development as an evolutionary cost of long life Lind M. Chen H., Meurling S., Guevara Gil A.C., Carlsson H., Zwoińska M., Maklakov A.

14:45 —	FRIDAY, AUGUST 14 TH
15:30-	ESEB Presidential Address Laurent Keller University of Lausanne Supergenes, sex, and sociality <i>Erna Hamburger Auditorium</i>
	John Maynard Smith Prize 2014 Laurie Stevison Auburn University The timescale of recombination rate evolution in great apes <i>Erna Hamburger Auditorium</i>
16:10 —	Break
16:40 —	Break
	John Maynard Smith Prize 2015 Matthew Hartfield University of Toronto Mathematical adventures in sex and disease evolution <i>Erna Hamburger Auditorium</i>
17:20 —	Closing ceremony Erna Hamburger Auditorium
17:50 —	
19: 00 —	
	Conference dinner <i>Unithèque</i>
21:00 — 2:00 —	Concert Orchestre jaune <i>Unithèque</i>

Poster session A Monday, August 10th 1740-1940

Génopode 2000

Symposium 11. Host defence in a parasitized world: selection, evolution		ation
Resistance and tolerance towards parasites in a polymorphic insect	Willink B. et al.	1
Evolutionary Potential of Ectoparasitism by Mites	Polak M. et al.	1
Coevolution between the red flour beetle and Bacillus thuringiensis bacteria:		
	Milutine de Ductuel	0
Transcriptome analysis of host defence after experimental evolution	Milutinovic B. et al.	2
Contemporary evolution of immunity in invasive species: The case of the		
domestic mouse (Mus musculus domesticus) and of the black rat (Rattus		
rattus) in Senegal	Diagne C. et al.	2
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A targeted presetive response to prevent disease sutbreaks in ont essistics	Pull C. et al.	2
A targeted proactive response to prevent disease outbreaks in ant societies	Pull C. et al.	3
Parasitism as a driver of age-specific mortality in Asian Elephants (Elephas		
maximus)	Lynsdale C. et al.	3
Protein evolution of Toll-like receptors 4, 5 and 7 within Galloanserae birds	Vinkler M. et al.	4
Individual multilocus heterozygosity at immune gene loci but not		•
microsatellites influences roe deer natal dispersal	Vanpé C. et al.	4
The QRS (Quantification of Representative Sequences) pipeline for		
amplicon sequencing: Case study on within population ITS1 sequence		
variation in a microparasite infecting Daphnia	Gonzalez Tortuero E. et al.	5
Variation of vector competence in Culicoides sonorensis	Morales-Hojas R. et al.	5
	Morales-hojas R. et al.	5
Why Sexually Transmitted Bacteria Tend to Cause Infertility: An		
Evolutionary Hypothesis	Apari P. et al.	6
Ants do drugs to fight disease	Freitak D. et al.	6
Steady state and induced immunity among castes of Formica exsecta	Stucki D. et al.	7
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The Impact of Parasite Mediated Selection on the Host's Genetic and		
Phenotypic Diversity at the Metapopulation Level	Kaufmann A. et al.	7
Use, effectiveness and variability of external immune defense in ants	Tragust S.	8
Multidimentional manipulation of host behaviour explains the ecological	-	
success of a social parasite	Foitzik S. et al.	8
Host age modulates parasite within-host competition	Izhar R. et al.	
	iznar R. et al.	9
Local adaptation between malaria and its bird hosts: An experimental		
approach	Jenkins T. et al.	9
Variation in Toll-like receptor 4 in closely related passerine species adapted		
for different environments	Králová T. et al.	10
The Genetic Basis of Behavioral Coevolution: Adaptations in Socially		10
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Parasitic Slavemakers and Their Hosts	Alleman A. et al.	10
Mixed diets – the key to a healthy life?	Dickel F. et al.	11
Evolution of immune responses and parasitoid virulence in a spatial context	Hambäck P. et al.	11
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How are coevolutionary trajectories affected by variable environments?	Brunner F. et al.	12
Uncovering host defense strategies: Bacterial infection in Drosophila		
melanogaster	Kutzer M. et al.	12
The relationship between host oxidative stress and Plasmodium infection in		
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	Demaye J. et al.	13
Coinvasion and Coinfection: Evolution and adaptation in two invasive		
parasites infecting blue mussels	Feis M. et al.	13
Gene diversity of Major histocompatibility complex (MHC) class II alleles of		
Scandinavian anuran species	Cortazar Chinarro M. et al.	14
Disentangling genetic and parental effects in determining immune function	contactor of milding with of the	
in a simultaneously hermaphroditic snail	Seppälä O. et al.	14
Microbiota plays a role in oral immune priming in Tribolium castaneum	Futo M. et al.	15
Not all MHC alleles are equal: Different characteristics of MHC Class I		
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alleles among song birds		15
Use of Concanavalin A in skin-swelling test of immune responsiveness		
facilitates interpretation of the measurement in rodents	Bílková B. et al.	16

Evolution of specific resistance against bacterial infection: Based on		
genetically hard-wired or phenotypically plastic defences?	Knoblich K. et al.	17
Host-mutualist and host-parasite coevolution in tripartite interactions	Rafaluk C. et al.	17
Differential expression of MHC genes in three species of sparrows indicates		
conserved functional differences	Drews A. et al.	18
Interactions among co-infecting bacterial strains and fluke genotypes shape		
disease virulence	Karvonen A. et al.	18
Acquired host responses erode advantages of co-infection by multiple		
parasite genotypes	Klemme I. et al.	19
Defence by AMP synergies against variable parasites	Schmid-Hempel P. et al.	19
MHC and Borrelia in bank voles: Divergent allele advantage	Scherman K. et al.	20
Transcriptomic response to pathogen challenges in leaf-cutting ants	Schiøtt M. et al.	20
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Is There An Association Between Haemosporidian Parasite Infection And		
Toll-Like Receptor (TLR) Genotype?	Razali H. et al.	21
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Interspecific interactions influence contrasting spatial genetic structures in		
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mimetic butterflies	Arias M. et al.	29
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under different nutrient conditions	Guignard M. et al.	30
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using Medicago polymorpha as an experimental system	Jack C. et al.	33
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