

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**.



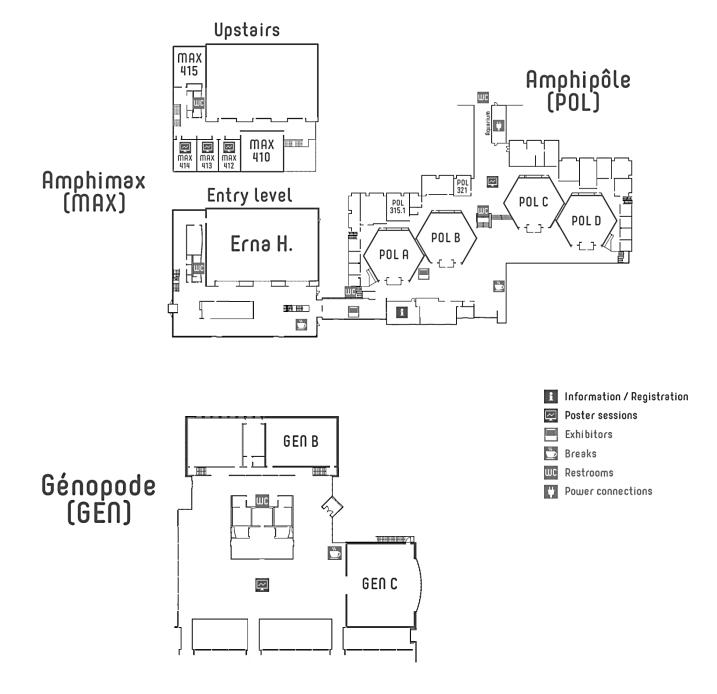
Primary buildings

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

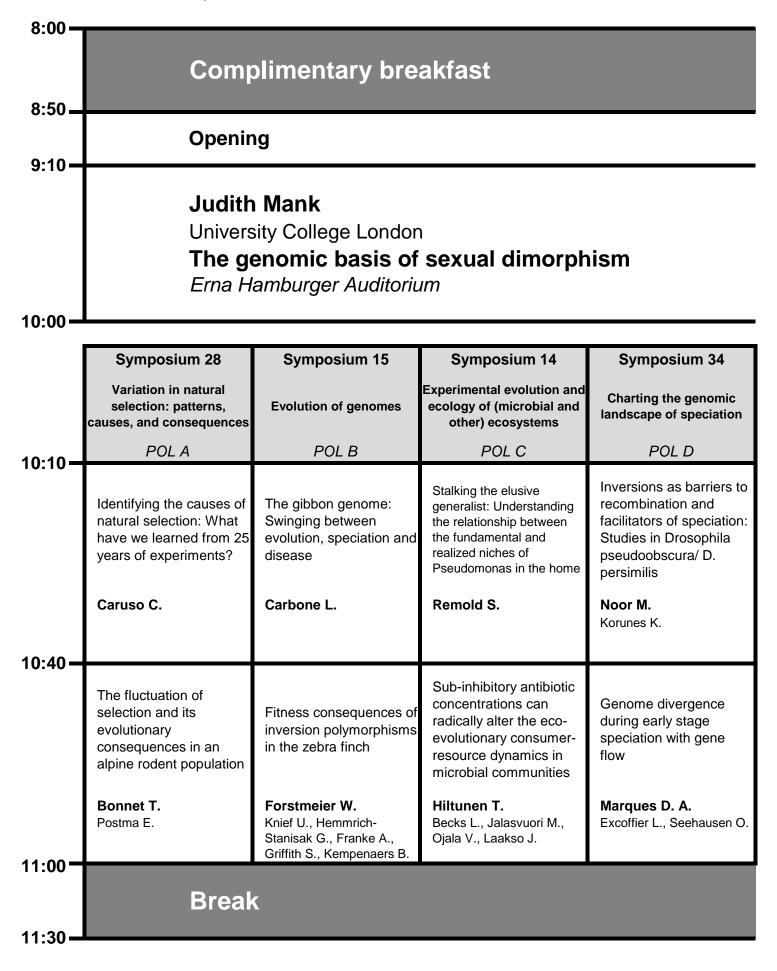
Open symposium

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 — | | | | |

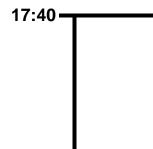
| Symposium 6 | Symposium 13 | Symposium 1 | Symposium 5 |
|--|--|---|---|
| Mating system evolution: unifying theory and test | Evolutionary analysis of ecological communities | Ecology and the Evolution of Sex | Novel insights in the genetics of sex-specific variation |
| MAX 410 | MAX 415 | GEN C | 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. |



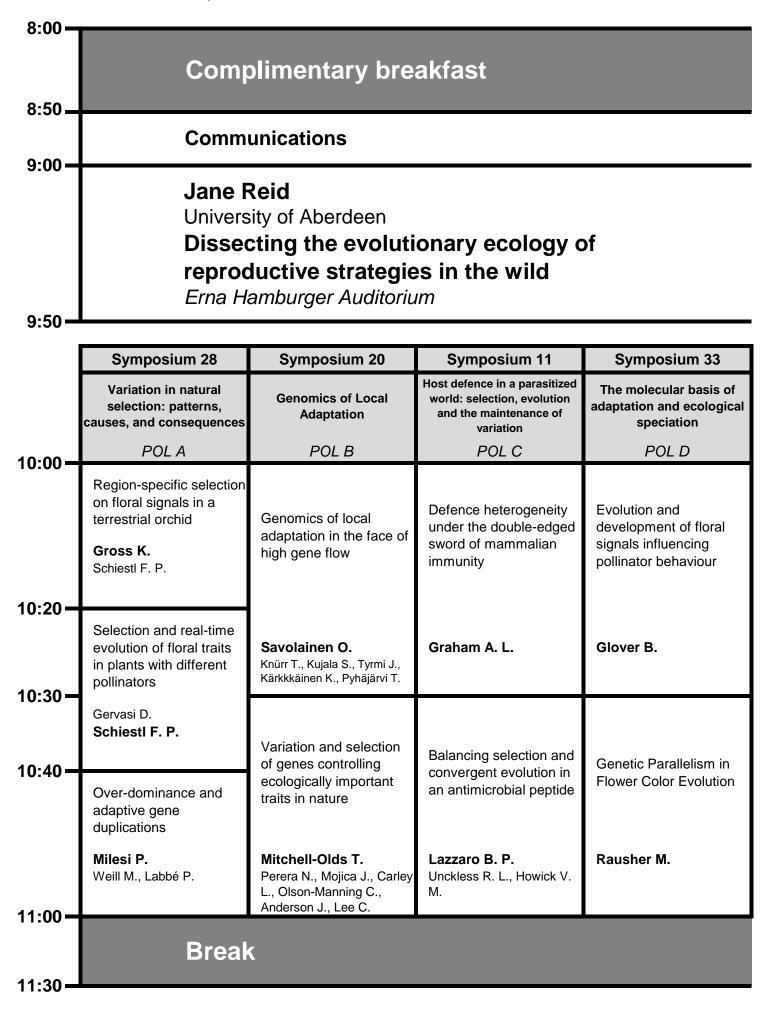


Poster session A

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 |
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TUESDAY, AUGUST 11TH

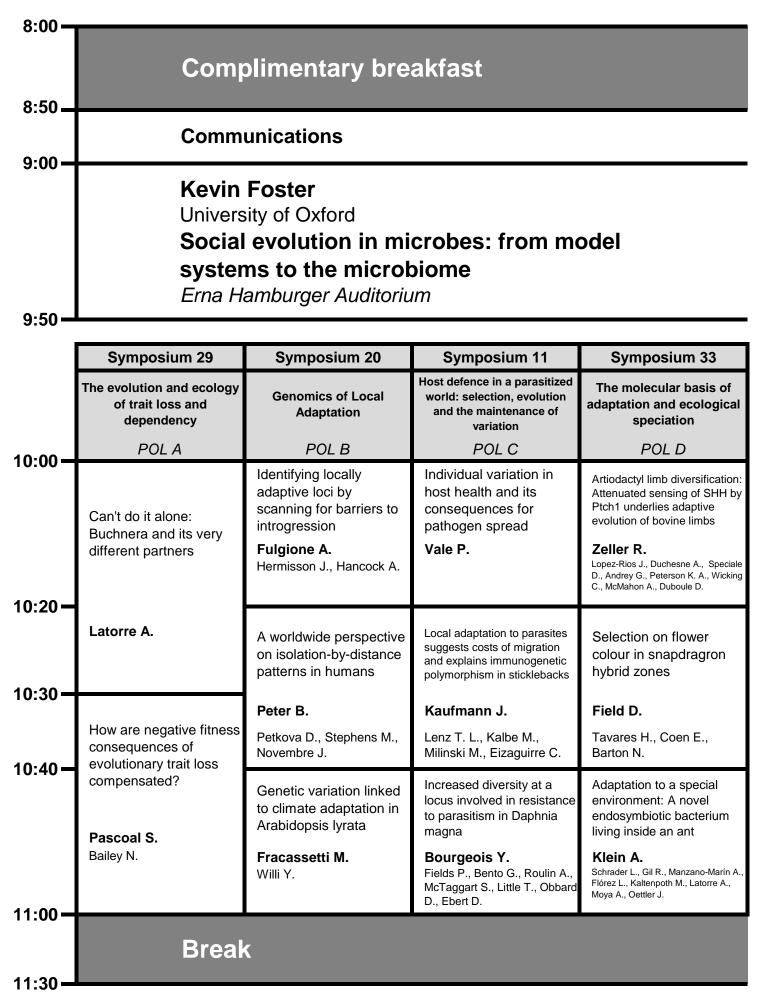
| | Symposium 28 | Symposium 20 | Symposium 11 | Symposium 33 |
|--------------------|---|--|---|--|
| | Variation in natural selection: patterns, causes, and consequences | Genomics of Local Adaptation | Host defence in a parasitized world: selection, evolution and the maintenance of variation | The 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



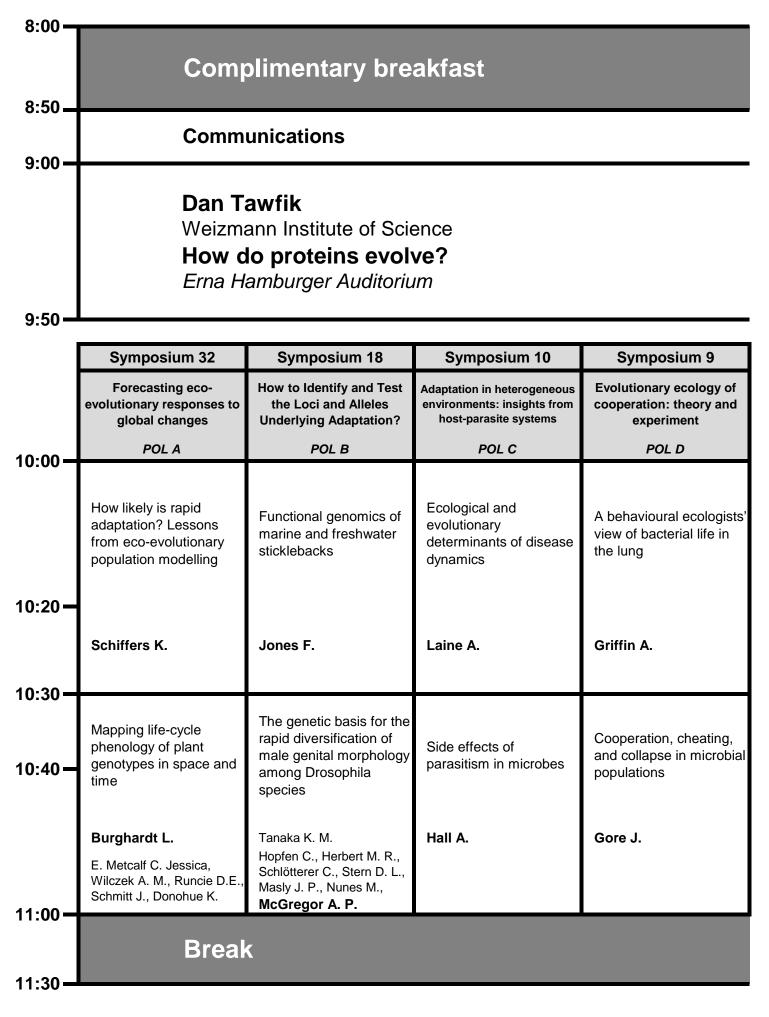
| Symposium 21 | Symposium 7 | Symposium 2 | Symposium 35 |
|--|---------------------------------------|--|--|
| The evolution of phenotypic plasticity within and across generations | Social Evolution & Sexual Conflict | What is new in the study of sex allocation? | Open symposium |
| MAX 410 | MAX 415 | 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. |
| | | | |

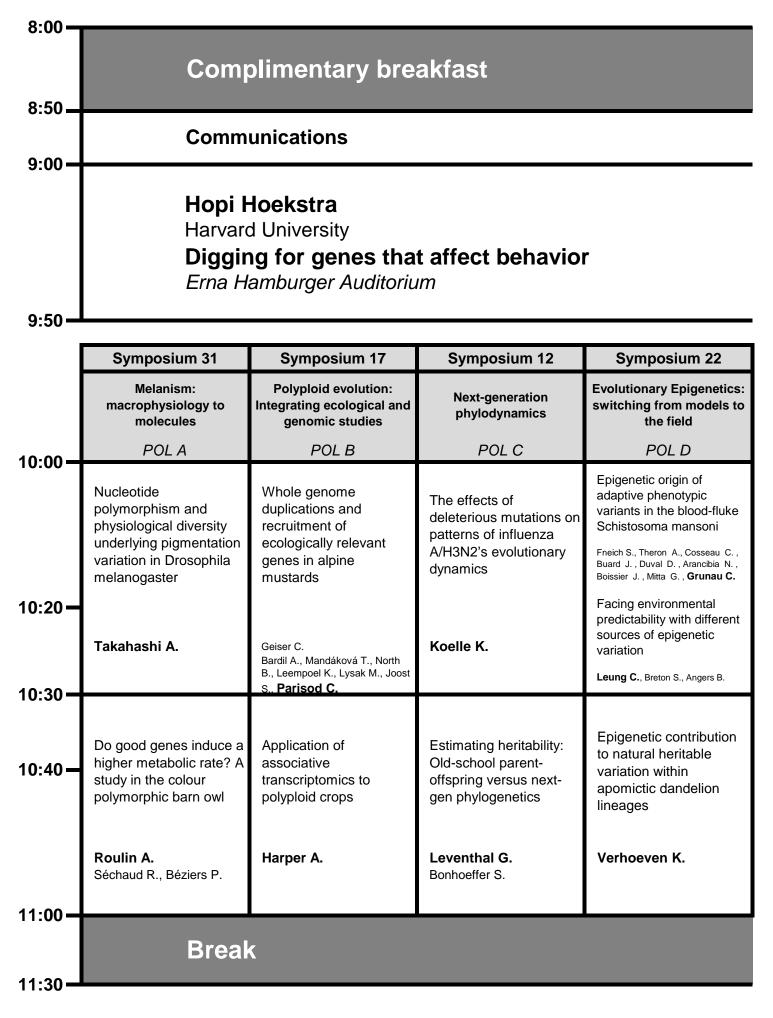
THURSDAY, AUGUST 13TH

| | 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. |
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| 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 |
| · · · · · · · · · · · · · · · · · · · | | _ |
| 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 |
| | Stucki D. et al. | 1 |
| 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 |
| | | 10 |
| 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 |
| | | |
| Lieux ene se such die nem trais staries effected humanishis en discussents Q | Davages Ellestel | 40 |
| 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 | | |
| the canary, Serinus canaria | Delhaye J. et al. | 13 |
| | 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 | | |
| • | O'Connor E. et al. | 15 |
| 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 |
| Distribution of protective symbiont in natural populations | Leclair M. et al. | 21 |
| Is There An Association Between Haemosporidian Parasite Infection And | | |
| Toll-Like Receptor (TLR) Genotype? | Razali H. et al. | 21 |
| | | |
| Superinfection and the coevolution of parasite virulence and host recovery | Kada S. et al. | 22 |
| | | |
| An examination of Dscam1 in the light of immunity, fecundity and behaviour | Peuß R. et al. | 22 |
| Ecological factors dictate the degeneration of induced immunity in the | Matao O at al | 00 |
| spider mite Tetranychus urticae | Matos G. et al. | 23 |
| Endosymbiont-mediated immune protection in a novel host species Symposium 13. Evolutionary analysis of ecological communities | Paulo T. et al. | 23 |
| Symposium 15. Evolutionary analysis of ecological communities | | |
| Local specialists and global generalists : Understanding parasite | | |
| diversification patterns within host communities at different spatial scales | McCoy K. | 24 |
| Linking morphologic and genetic divergence with host use in the tropical tick | Meeby R. | 27 |
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