

Tuesday August 21

Location: Ekonomikum 3

Symposium 1: Evolutionary genetics of coloration

Organizers: Nick Mundy, University of Cambridge, UK
Patricia Beldade, Leiden University, The Netherlands

- 9.45-10.15 **Nicolas Gompel (invited)**
Repeated morphological evolution by cis-regulatory changes
- 10.15-10.45 **David Parichy (invited)**
Evolutionary genetics of zebrafish pigment pattern development
- 10.45-11.05 **Hopi Hoekstra**
The production of adaptive colour pattern by interacting genes
- 11.05-11.35 Coffee
- 11.35-11.55 **Jake Gratten**
Cryptic selection on coat colour in Soay sheep
- 11.55-12.15 **Walter Salzburger**
The (adaptive) evolution of colour genes in cichlid fishes
- 12.15-12.35 **Arielle Cooley**
Genetic analysis of floral colour patterning in Chilean *Mimulus*
- 12.35-14.00 Lunch
- 14.00-14.20 **Patricia Wittkopp**
Genetic basis of pigmentation differences within and between *Drosophila* species
- 14.20-14.40 **Staffan Andersson**
Evolution of carotenoid coloration in widowbirds and bishops (*Euplectes* spp.):
Directional discrete mechanisms and labile continuous expression
- 14.40-15.00 **Pieterella Luttikhuisen**
Shell colour polymorphism: using the locus comparison approach to test for
balancing selection in the Baltic tellin
- 15.00-15.20 **Jenny Boughman**
Selective mechanisms and genetics of color divergence in threespine sticklebacks
- 15.20-16.00 Coffee

Tuesday August 21

Location: University building X

Symposium 3: Behavioural EvoDevo

Organizers: Rinaldo Bertossa, University of Groningen, The Netherlands
Leo Beukeboom, University of Groningen, The Netherlands

- 9.45-10.15 **Randolf Menzel (invited)**
Small brains with smart minds
- 10.15-10.45 **Sebastian Haesler (invited)**
An evolutionary perspective on FoxP2: from birds to humans
- 10.45-11.05 **Ryszard Maleszka**
Genomic and epigenomic explanations of social behaviour in honey bees
- 11.05-11.35 Coffee
- 11.35-11.55 **Gro Amdam**
Regulatory architectures of social design: dual function of TOR pathway in diphenic caste development and social behaviour
- 11.55-12.15 **Juergen Gadau**
The evolution of sociality - Testing the reproductive ground plan hypothesis in ants
- 12.15-12.35 **Yannick Wurm**
Genomic response to social restructuring of fire ant colonies
- 12.35-14.00 Lunch
- 14.00-14.20 **Guy Bloch**
The molecular organization of the circadian clock and its socially mediated plasticity in the honey bee *Apis mellifera*
- 14.20-14.40 **Rinaldo Bertossa**
Does *fruitless* specify male courtship behaviour in *Nasonia vitripennis*?
- 14.40-15.00 **Craig Walling**
The quantitative genetic basis of parental care in the burying beetle (*Nicrophorus vespilloides*)
- 15.00-15.20 **Fredrik Sundström**
From growth hormone to ecology: a transgenic coho salmon (*Oncorhynchus kisutch*) model
- 15.20-16.00 Coffee

Tuesday August 21

Location: Ekonomikum 4

Symposium 9: Evolution of diversity in heterogenous environments

Organizers: Sara Magalhães, Instituto Gulbenkian de Ciencia, Portugal
Virginie Ravigné, CIRAD, Montpellier, France
Ophélie Ronce, Université de Montpellier II, France

- 9.45-10.15 **Graham Bell (invited)**
Adaptation to complex environments
- 10.15-10.45 **Thomas Lenormand (invited)**
The reinforcement of local adaptation
- 10.45-11.05 **Claus Rueffler**
The interplay between behaviour and morphology in the evolutionary dynamics of resource specialization
- 11.05-11.35 Coffee
- 11.35-11.55 **Adrien Frantz**
The importance of phenotypic traits other than performance and preference in the process of ecological specialization
- 11.55-12.15 **Frederic Austerlitz**
Evolution of genetic diversity and differentiation for genes involved in regulation networks
- 12.15-12.35 **Martijn Egas**
Coexistence of phytoplankton specialists and generalists in a fluctuating light spectrum
- 12.35-14.00 Lunch
- 14.00-14.20 **Greg McInerney**
Mutation fixation across range limits: consequences for range dynamics and responses to climate change
- 14.20-14.40 **Bénédicte Rhone**
Flowering time trait, gene and microsatellite differentiation among experimental populations of wheat evolving in contrasted environments
- 14.40-15.00 **Patrick Venail**
Functional diversity and productivity peak at intermediate levels of dispersal in evolving metacommunities
- 15.00-15.20 **Alex Hall**
How does resource supply affect evolutionary diversification?
- 15.20-16.00 Coffee

Tuesday August 21

Location: University building IX

Symposium 13: Evolutionary epidemiology and its implications for disease control

Organizers: Olivier Restif, University of Cambridge, UK
Sylvain Gandon, IRD, Montpellier, France

- 9.45-10.15 **Troy Day (invited)**
The evolution of disease life histories
- 10.15-10.45 **Andrew Read (invited)**
How to make an evolution-proof insecticide for malaria control
- 10.45-11.05 **Anne Deredec**
Modelling strategies of genetic control of vector populations to fight against infectious diseases.
- 11.05-11.35 Coffee
- 11.35-11.55 **Florence Débarre**
Evolutionary epidemiology of drug resistance in a spatial model
- 11.55-12.15 **Gabriel Perron**
Source-sink dynamics shape the evolution of antibiotic resistance and its pleiotropic fitness cost
- 12.15-12.35 **Anna-Liisa Laine**
Evolution of parasite transmission in a natural plant-pathogen metapopulation
- 12.35-14.00 Lunch
- 14.00-14.20 **Jacobus de Roode**
Virulence evolution in monarch butterfly parasites
- 14.20-14.40 **Lucie Salvaudon**
Host-parasite genotypic specificity: effects of host variation on parasite evolution.
- 14.40-15.00 **Isabel Gordo**
Patterns of genetic variation in pathogen populations
- 15.00-15.20 **Daniel Wilson**
Tracing the host species of human food-borne infections
- 15.20-16.00 Coffee

Tuesday August 21

Location: Ekonomikum 1

Symposium 25: Evolution of unusual gene organisation: an exception or rule?

Organizers: Kateryna Makova, Penn State University, USA
Anton Nekrutenko, Penn State University, USA

- 9.45-10.15 **Wen-Hsiung Li (invited)**
Overlapping genes in the human, chimpanzee, and mouse genomes
- 10.15-10.45 **Laurent Duret (invited)**
The origin of an RNA gene: since when does Xist eXist?
- 10.45-11.05 **Hans Ellegren**
Faced with inequality: Chicken does not have a general dosage compensation of sex-linked genes
- 11.05-11.35 Coffee
- 11.35-11.55 **Anton Nekrutenko**
Overlapping coding regions in eukaryotic genomes
- 11.55-12.15 **Emmanuelle Porcher**
Evidence of large heritable variation for quantitative traits following genome-wide alterations of DNA methylation in *Arabidopsis thaliana*.
- 12.15-12.35 **Deniz Dali**
Sense-antisense gene pairs: conservation of expression patterns
- 12.35-14.00 Lunch
- 14.00-14.20 **Julien Roux**
Bias in retention of duplicate genes from a whole-genome duplication gives insights into evolution of development in vertebrates
- 14.20-14.40 **Andrew Heidel**
Mitochondrial genome evolution in the social amoebae
- 14.40-15.00 **Olga Novikova**
Distribution and evolution of non-LTR retrotransposons in fungi
- 15.00-15.20 **Philippe Gayral**
Integrations of banana streak virus sequences in the genome of the banana *Musa balbisiana* - Endogenous viruses or host genes?
- 15.20-16.00 Coffee

Wednesday August 22

Location: Ekonomikum 4

Symposium 2: Conservation genetics: genetic deterioration and adaptation to changing environments

Organizers: Kuke Bijlsma, University of Groningen, The Netherlands
Volker Loeschcke, Aarhus University, Denmark

- 9.45-10.15 **Juan Bouzat (invited)**
Natural selection and the purging of deleterious recessive alleles: effects of inbreeding history, inbreeding rate and inbreeding environment
- 10.15-10.45 **Markus Fischer (invited)**
The role of neutral and adaptive evolution for plant conservation genetics in the heterogeneous cultural landscape
- 10.45-11.05 **Kuke Bijlsma**
The interplay between genetic and environmental stress
- 11.05-11.35 Coffee
- 11.35-11.55 **Leonard Nunney**
Survival or extinction: how fast can the red queen run?
- 11.55-12.15 **Audrey Zannese**
Population responses to inbreeding and environmental perturbations: an experimental study
- 12.15-12.35 **Shu-Rong Zhou**
The evolution of inbreeding depression in a metapopulation
- 12.35-14.00 Lunch, council
- 14.00-14.30 **Torsten N. Kristensen (invited)**
Inbreeding and environmental stress – investigated on different levels of biological organization using *Drosophila* as a model organism
- 14.30-14.50 **Kamilla S. Pedersen**
Proteome signatures of inbreeding and heat stress in *Drosophila melanogaster*
- 14.50-15.10 **Tarmo Ketola**
Inbreeding increases resting metabolic rate and reduces energy available for allocation
- 15.10-15.30 **Marta Szulkin**
Inbreeding-by-environment interactions in a wild bird population
- 15.30-16.00 Coffee
- 16.00-16.20 -
- 16.20-16.40 **Lyanne Brouwer**
Heterozygosity-fitness correlations in a bottlenecked island species; a case study on the Seychelles warbler
- 16.40-17.00 **Roosa Leimu**

Genetic history, habitat quality and past selection as determinants of inbreeding and outbreeding depression in herbivore resistance and fitness of fragmented plant populations

17.00-17.20

Andrea R. Pluess

Decreased plant viability due to genetic erosion in a fragmented landscape

Wednesday August 22

Location: University building IX

Symposium 4: “Plant eco-devo”: ecology and genetics of life history timing in plants

Organizers: Renate Wesselingh, Université Catholique de Louvain, Belgium
Henk van Dijk, Université de Lille 1, France

- 9.45-10.15 **Sonia E. Sultan (invited)**
Eco-Devo variation in reproductive and offspring developmental timing
- 10.15-10.45 **Kathleen Donohue (invited)**
Completing the cycle: maternal effects as the missing link in plant life histories
- 10.45-11.05 **Juliette De Meaux**
Evolution of seed dormancy in *Arabidopsis thaliana*
- 11.05-11.35 Coffee
- 11.35-11.55 **Kristen Wagmann**
The variation in seed dormancy among *Beta vulgaris* subsp. *maritima* populations along a latitudinal gradient: impact of environmental factors
- 11.55-12.15 **Andrew M. Simons**
Variable selection on the timing of germination over multiple seasons and the evolution of diversification bet hedging
- 12.15-12.35 **Amy Strange**
Molecular basis of adaptive vernalization response
- 12.35-14.00 Lunch, council
- 14.00-14.30 **Outi Savolainen (invited)**
Genetics of adaptation: flowering time in *Arabidopsis lyrata*
- 14.30-14.50 **Benjamin K. Blackman**
Connecting the sun to flowering in sunflower ecology and genetics
- 14.50-15.10 **Nora Scarcelli**
The effect of FRIGIDA on flowering time and its fitness value in an outbred population of *Arabidopsis thaliana*
- 15.10-15.30 **Renate A. Wesselingh**
Counting nodes: timing of flowering in the annual *Rhinanthus angustifolius*
- 15.30-16.00 Coffee
- 16.00-16.20 **Jutta Buschbom**
The impact of stand-specific timing of flowering on pollen-mediated gene flow across the landscape in *Quercus petraea*
- 16.20-16.40 **Antonina I. Internicola**
Should a food-deceptive species flower before or after a rewarding species? An experimental test of pollinator visitation behaviour under contrasting phenologies
- 16.40-17.00 **Jelmer A. Elzinga**

Synchronous flowering increases seed predation in small *Silene latifolia* patches: a field experiment

17.00-17.20

Elze Hesse

Life history variation in contrasting habitats: flowering decisions in the clonal perennial herb *Veratrum album*

Wednesday August 22

Location: Ekonomikum 1

Symposium 23: Gene mapping in natural populations

Organizers: Jon Slate, University of Sheffield, UK
Christian Lexer, Royal Botanic Gardens, Kew

- 9.45-10.15 **Loren Rieseberg (invited)**
QTL and Association Mapping in Wild and Domesticated Sunflowers
- 10.15-10.45 **Hopi Hoekstra (invited)**
Finding the genes that contribute to adaptive variation in natural populations of mice
- 10.45-11.05 **Katri Kärkkäinen**
Genes and alleles causing adaptive variation in trichome production in natural populations of *Arabidopsis lyrata*
- 11.05-11.35 Coffee
- 11.35-11.55 **David Hall**
Mapping variation in candidate genes for phenology along a latitudinal gradient in European Aspen
- 11.55-12.15 **Alex Buerkle**
Methods and models for admixture mapping in populations of hybrids
- 12.15-12.35 **Tiffany Malek**
Admixture mapping of male nuptial colour in a nascent hybrid population of threespine sticklebacks
- 12.35-14.00 Lunch, council
- 14.00-14.30 **Bengt Hansson (invited)**
Linkage mapping, linkage disequilibrium and heterozygosity-fitness correlations in a passerine bird, the great reed warbler
- 14.30-14.50 **Niclas Backström**
Gene mapping in a wild bird population
- 14.50-15.10 **Jake Gratten**
Genetic variation in natural populations: linkage mapping of fitness related traits in Soay sheep
- 15.10-15.30 **Lena Wilfert**
Natural variation in the genetic architecture of host resistance in the bumblebee *Bombus terrestris*
- 15.30-16.00 Coffee
- 16.00-16.20 **Anti Vasemägi**
QTL mapping of ecologically relevant early life-history traits in Atlantic salmon
- 16.20-16.40 **Luisa Orsini**
Fitness consequences of single nucleotide polymorphism at the Pgi locus in the *Glanville fritillary* butterfly

- 16.40-17.00 **Kees van Oers**
Drd4 gene polymorphisms are associated with personality variation in a passerine bird
- 17.00-17.20 **Nolan Kane**
Molecular evolution across the *Asteraceae*: micro- and macroevolutionary processes

Wednesday August 22

Location: Ekonomikum 3

Symposium 24: Sexual selection: testing the alternatives 25 years later

Organizers: Tom Tregenza, University of Exeter, UK
David Hosken, University of Exeter, UK

- 9.45-10.15 **Russell Lande (invited)**
Some history of sexual selection theory for polygamous species
- 10.15-10.45 **Rauno Alatalo (invited)**
Sexual selection and the indirect genetic benefits
- 10.45-11.05 **Nina Wedell**
Selfish genetic elements and sexual selection
- 11.05-11.35 Coffee
- 11.35-11.55 **Trine Bilde**
The genetic architecture of fitness and evolution of mating biases
- 11.55-12.15 **Wade Hazel**
Is fitness equality necessary for the coexistence of conditionally expressed alternative reproductive phenotypes?
- 12.15-12.35 **Thomas Getty**
Altruism and spite in sexually selected signalling
- 12.35-14.00 Lunch, council
- 14.00-14.30 **Michael Wade (invited)**
The paradox of sexual selection
- 14.30-14.50 **Jane Reid**
Secondary sexual ornamentation and non-additive genetic benefits of female mate choice
- 14.50-15.10 **Rhonda Snook**
Experimental evolution of sexual selection: responses and consequences
- 15.10-15.30 **Daphne Fairbairn**
Sexual selection and allometry: Process does not predict pattern in a water strider
- 15.30-16.00 Coffee
- 16.00-16.20 **Steve Chenoweth**
Dissecting geographical divergence in multiple sexually-selected characters
- 16.20-16.40 **Roger Härdling**
Sexual conflict, genetic correlation and stable polymorphism
- 16.40-17.00 **Göran Arnqvist**
The effect of sexual selection on population fitness
- 17.00-17.20 **Judith Mank**
Evolution of sex-biased genes in birds

Wednesday August 22

Location: University building X

Symposium 28: Ecological and evolutionary immunology

Organizers: Yannick Moret, Université de Bourgogne, France
Michael Siva-Jothy, University of Sheffield, UK
Joachim Kurtz, ETH-Zentrum, Switzerland
Hinrich Schulenburg, University of Tübingen, Germany

- 9.45-10.15 **Louis Du Pasquier (invited)**
Germline and somatic diversification of immune repertoires in Metazoa
- 10.15-10.45 **Tom Little (invited)**
The cost and benefit of the immune response in *Daphnia*
- 10.45-11.05 **Daniela Brites**
A diversified Dscam homologue in the Crustacean *Daphnia*
- 11.05-11.35 Coffee
- 11.35-11.55 **Livia Roth**
Can beetles be vaccinated?
- 11.55-12.15 **Ruth Hamilton**
Parasite diversity selects for combined inducible and constitutive immune responses in a model of innate immunity
- 12.15-12.35 **Lena Wilfert**
The genetic architecture of immune defence and reproduction in male *Bombus terrestris* bumblebees
- 12.35-14.00 Lunch, council
- 14.00-14.30 **Paul Schmid-Hempel (invited)**
Immune defence, pathogenesis and some unsettled questions
- 14.30-14.50 **Jenny Bangham**
High levels of genetic variation in the susceptibility of *Drosophila melanogaster* to viral infection are caused by major-effect polymorphisms
- 14.50-15.10 **Rebecca Schulte**
Experimental coevolution of *Caenorhabditis elegans* and its microparasite *Bacillus thuringiensis*
- 15.10-15.30 **Lars Råberg**
Resistance and tolerance to parasites in animals
- 15.30-16.00 Coffee
- 16.00-16.20 **Jouni Taskinen**
Do measures of immunocompetence measure immunocompetence?
- 16.20-16.40 **Natalia Pitala**
Nestling immune response to phytohaemagglutinin is not heritable in collared flycatchers
- 16.40-17.00 **Sylvia Cremer**

17.00-17.20 Social prophylaxis: collective immunity in ant societies
Brian Preston
Sleep and the mammalian immune system

Thursday August 23

Location: University building IX

Symposium 6: The role of natural enemies in diversification

Organizers: Steven Vamosi, University of Calgary, Canada
Patrik Nosil, Simon Fraser University, Canada

- 9.45-10.15 **James Mallet (invited)**
Mullerian mimicry and speciation
- 10.15-10.45 **Karsten Schonrogge (invited)**
Factors determining the composition of parasitoid assemblages attacking oak cynipid galls
- 10.45-11.05 **Erik Svensson**
Selective predation on species recognition characters and wing morphology in sympatric damselflies (genus *Calopteryx*)
- 11.05-11.35 Coffee
- 11.35-11.55 **Justin Meyer**
Competition, predation, and diversification
- 11.55-12.15 **Johanna Mappes**
Changes in predator community generate seasonally varying selection for warning signals
- 12.15-12.35 **Andrew MacColl**
Can parasites drive the adaptive radiation of host populations?
- 12.35-12.55 **Bryan Clarke**
Experiments on the maintenance of polymorphism by bird predators
- 12.55-14.0 Lunch

Thursday August 23

Location: Ekonomikum 4

Symposium 7: Game theory in an ecological context

Organizers: Eva Kisdi, University of Helsinki, Finland

Hanna Kokko, University of Helsinki, Finland

- 9.45-10.15 **Olof Leimar (invited)**
Phenotypic polymorphism, modifier evolution, and the fine-tuning of reaction norms
- 10.15-10.45 **John McNamara (invited)**
The importance of individual differences in conflict and the evolution of cooperation
- 10.45-11.05 **Franjo Weissing**
Life-history variation and the evolution of animal personalities
- 11.05-11.35 Coffee
- 11.35-11.55 **Michael Kopp**
Competitive sympatric speciation: Understanding the role of costs
- 11.55-12.15 **Dan Cohen**
Age dependent competitive learning rate game in demographic turnover populations of foraging bees, determined by depleting nectar levels in exploited flowers
- 12.15-12.35 **Jean-Baptiste Ferdy**
Evolution of cooperation and social hierarchy
- 12.35-12.55 **Eva Kisdi**
Evolutionary branching and long-term coexistence of cycling predators
- 12.55-14.00 Lunch

Thursday August 23

Location: Ekonomikum 1

Symposium 15: Social evolution in microbes and parasites

Organizers: Ashleigh Griffin, University of Edinburgh, UK
Sarah Reece, University of Edinburgh, UK

- 9.45-10.15 **Greg Velicer (invited)**
The ecology of cooperation in microbes
- 10.15-10.45 **Angus Buckling (invited)**
Siderophore-mediated cooperation and virulence in *Pseudomonas aeruginosa*
- 10.45-11.05 **Jacobus de Roode**
Virulence and competition in genetically diverse malaria infections
- 11.05-11.35 Coffee
- 11.35-11.55 **Andy Gardner**
Bacterial persistence is a social trait
- 11.55-12.15 **Michael Brockhurst**
The ecology of cooperation in microbes
- 12.15-12.35 **Adin Ross-Gillespie**
Frequency-dependence and density-dependence of cooperation in bacteria
- 12.35-12.55 **Kevin Foster**
Cooperation and conflict in microbial biofilms: a story of slime, selfishness and suffocation
- 12.55-14.00 Lunch

Thursday August 23

Location: Ekonomikum 3

Symposium 19: Plastic and evolutionary responses to temperature

Organizers: Jacintha Ellers, Vrije Universiteit, The Netherlands
Klaus Fischer, University of Bayreuth, Germany

- 9.45-10.15 **Volker Loeschke (invited)**
Thermal adaptation and environmental stress: from selection experiments to gene expression studies and field releases
- 10.15-10.45 **George W. Gilchrist (invited)**
Developmental plasticity in thermal sensitivity: as clear as night and day
- 10.45-11.05 **Wolf Blanckenhorn**
Latitudinal clines and thermal adaptation in the yellow dung fly
- 11.05-11.35 Coffee
- 11.35-11.55 **Jan Kammenga**
Genetics of the temperature-size rule in *Caenorhabditis elegans*
- 11.55-12.15 **Gerard Driessen**
The cost of making thermal phenotypes
- 12.15-12.35 **Barbara Feldmeyer**
The evolution of TSD without sex-specific effects of temperature
- 12.35-12.55 **Elizabeth Lacey**
Adaptive thermoregulation in plants! A comparative study of floral reflectance patterns in European populations of *Plantago lanceolata*.
- 12.55-14.00 Lunch

Thursday August 23

Location: University building X

Symposium 29: The paradox of mixed mating in plants

Organizers: Elizabeth Elle, Simon Fraser University, Canada
Mark Johnston, Dalhousie University, Canada

- 9.45-10.15 **Emmanuelle Porcher (invited)**
Promising theoretical solutions to the problem of mixed mating
- 10.15-10.45 **David Moeller (invited)**
Evolution and biogeography of mating system variation in plants
- 10.45-11.05 **Pierre-Olivier Cheptou**
The evolution of dispersal/outcrossing syndrome in spatially heterogeneous
pollination environment: why are there so many dioecious plants on islands?
- 11.05-11.35 Coffee
- 11.35-11.55 **Matthew Olson**
Neighborhood sex ratio and hermaphrodite selfing rate in gynodioecious
populations of *Silene vulgaris*
- 11.55-12.15 **Åsa Lankinen**
Delayed stigma receptivity in *Collinsia heterophylla* in relation to pollen
competition, mating-system evolution and sexual conflicts
- 12.15-12.35 **Carine Collin**
Influence of enemies on plant mating systems: weevils impact on selfing rates
- 12.35-12.55 **Xavier Vekemans**
Shift in mating system along the *Arabidopsis thaliana* lineage: genetics, timescale
and mixed mating intermediate stages
- 12.55-14.00 Lunch

Friday August 24

Location: Ekonomikum 3

Symposium 8: Integrating ecology and evolution: a synthesis

Organizers: Nils Christian Stenseth, University of Oslo, Norway
Eli Rueness, University of Oslo, Norway

- 9.45-10.15 **Thomas Hansen (Invited)**
Integrating ecology and evolution in the comparative method
- 10.15-10.45 **Loren Rieseberg (Invited)**
Integrating ecology and evolution: an example from sunflowers
- 10.45-11.05 **Carol Eunmi Lee**
Rapid evolution across independent invasions into novel environments
- 11.05-11.35 Coffee
- 11.35-11.55 **Daniel Nussey**
Understanding the evolutionary ecology of phenotypic plasticity in the wild
- 11.55-12.15 **Helena Koivulehto**
Adaptive radiation of forest dung beetles in Madagascar
- 12.15-12.35 **Virpi Lummaa**
Sex ratio at birth affects reproductive success in humans
- 12.35-14.00 Lunch
- 14.00-14.20 **Daniel Berner**
From local adaptation to ecological speciation: divergent selection and gene flow in the lake/stream stickleback system
- 14.20-14.40 **Jörgen Ripa**
Adaptive dynamics in stochastic environments
- 14.40-15.00 **Daphne Fairbairn**
Laboratory evolution of trade-offs 1: Testing predictions from quantitative genetics on the loss of dispersal capability
- 15.00-15.20 **Anna Qvarnström**
Long-term fitness consequences of hybridization in *Ficedula* flycatchers
- 15.20-16.00 Coffee

Friday August 24

Location: Ekonomikum 4

Symposium 14: Host-parasite evolution: consequences of parasite communities and host species assemblages

Organizers: Mark Brown, University of Dublin Trinity College, Ireland
Thierry Rigaud, Université de Bourgogne, France

- 9.45-10.15 **Dieter Ebert (invited)**
Interactions between hosts and multiple parasites: studies of *Daphnia* and its microparasites
- 10.15-10.45
10.45-11.05 **David Hughes**
Cordyceps infection of ants in a tropical rainforest: much more than meets the eye
- 11.05-11.35 Coffee
- 11.35-11.55 **Mario Ruiz-González**
Evolution and dynamics of one parasite with multiple hosts: epidemiology and population genetics of a trypanosomatid of bumble bees
- 11.55-12.15 **Guislaine Refrégier**
Identifying multi-host species, a crucial step in detecting host shifts from co-phylogeny analyses: the case of the fungal *Microbotryum violaceum* species complex
- 12.15-12.35 **Amy Pedersen**
Phylogeny and geography predict pathogen host range in wild primates and humans
- 12.35-14.00 Lunch
- 14.00-14.20 **Mike Boots**
Modelling the evolutionary implications of conflict between parasites with different transmission modes
- 14.20-14.40 **Simon Fellous**
Interactions between parasite doses and the host food availability on the outcome of mosquito coinfection by two parasite species
- 14.40-15.00 **Sandra Lass**
Co-infection with micro- and macroparasites: evidence of indirect interactions and a role for timing?
- 15.00-15.20 **Emilie Vautrin**
Dynamics and evolution of multiple infections with vertically transmitted symbionts
- 15.20-16.00 Coffee

Friday August 24

Location: Ekonomikum 1

Symposium 26: Ageing and senescence in wild animal populations

Organizers: Anne Charmantier, CNRS, Montpellier, France
Dan Nussey, University of Cambridge, UK

- 9.45-10.15 **James Carey (invited)**
Population aging and extraordinary life span in wild medflies
- 10.15-10.45 **Anne Bronikowski (invited)**
Physiological evolution and rate of aging in wild populations of the garter snake (*Thamnophis elegans*)
- 10.45-11.05 **Thomas Reed**
Reproductive senescence in a long-lived species: rates of decline in late life performance are associated with varying costs of early reproduction
- 11.05-11.35 Coffee
- 11.35-11.55 **Petteri Ilmonen**
Telomere attrition due to chronic infection
- 11.55-12.15 **Paul Schmidt**
Reproductive diapause and aging in natural populations of *Drosophila melanogaster*
- 12.15-12.35 **Russell Bonduriansky**
The final frontier: ageing in wild insect populations
- 12.35-14.00 Lunch
- 14.00-14.20 **Jean-Michel Gaillard**
Reproductive senescence in female large herbivores: a review of the field evidence and some patterns of variation
- 14.20-14.40 **Alastair Wilson**
Support for the evolutionary theory of ageing from two wild vertebrate populations
- 14.40-15.00 **Jarrod Hadfield**
Evolutionary stasis of age-trajectories in a wild population of bird predicted by non-linear developmental processes
- 15.00-15.20 **Ophélie Ronce**
Does dispersal influence the evolution of ageing?
- 15.20-16.00 Coffee

Friday August 24

Location: University main building, Room X

Symposium 27

Organizers: Gerald Heckel, University of Bern, Switzerland
Maarit Jaarola, University of Lund, Sweden

- 9.45-10.15 **Rémy Petit** (invited)
Reconstructing plant evolutionary histories: what are organelle genes good at?
- 10.15-10.30 **Johan Lindell**
Gene flow across a narrow and highly divergent mtDNA contact zone in the sideblotched lizard (*Uta stansburiana*) of Baja California, Mexico
- 10.30-10.45 **Martin Fischer**
A genomic approach to the complex evolutionary relationships in the genus *Microtus*
- 10.45-11.05 **Tor Carlsen**
Combining AFLPs, SSRs, and plastid and nuclear sequences in phylogeography and systematics
- 11.05-11.35 *Coffee*
- 11.35-11.55 **Maxim Kapralov**
Positive selection facilitates interspecific gene transfer in Hawaiian endemic *Schiedea*
- 11.55-12.15 **Graham Muir**
A selective sweep in the chloroplast DNA of dioecious *Silene* (section *Elisanthe*)
- 12.15-12.35 **Stéphane Hemmerter**
A curious coincidence: mosquito biodiversity and the limits of the Japanese encephalitis virus in Australasia
- 12.35-14.00 *Lunch*
- 14.00-14.20 **Zuzana Musilova**
Incomplete lineage sorting or hybridisation? Multilocus phylogeny and coalescent simulation suggest introgressive hybridisation in asexual complex of European loaches
- 14.20-14.40 **Nabholz Benoit**
Determinism of mitochondrial genetic diversity in birds and mammals
- 14.40-15.00 **Patricia Brito**
Speciation history of white-eyes (*Zosterops griseotinctus*) complex in the Solomon archipelago: contrast between anonymous nuclear loci and mtDNA
- 15.00-15.20 **Pierre-André Crochet**
When mtDNA is not enough: conflicts among markers reveal misleading mtDNA histories
- 15.20-16.00 *Coffee*

Friday August 24

Location: University building IX

Symposium 30: When is a hierarchical model not appropriate in plant systematics

Organizers: Bengt Oxelman, Uppsala University, Sweden
Katharina Huber, University of East Anglia, UK

- 9.45-10.15 **Peter Lockhart (invited)**
Species radiation in the New Zealand alpine flora
- 10.15-10.45 **Vincent Moulton (invited)**
Using networks to explore non-hierarchical patterns of evolution in plants
- 10.45-11.05 **Katarina Andreassen**
Potential hybridization in real data sets: complex relationships in young flowering plants
- 11.05-11.35 Coffee
- 11.35-11.55 **Anja Rautenberg**
Recombination between distinct lineages in *Silene*?
- 11.55-12.15 **Božo Frajman**
Hybrid origins and homoploid reticulate evolution within *Heliosperma* (*Sileneae*, *Caryophyllaceae*) – a multigene phylogenetic approach
- 12.15-12.35 **Guido Grimm**
ITS evolution in *Platanus*: homoeologues, pseudogenes, and ancient hybridisation
- 12.35-14.00 Lunch
- 14.00-14.20 **Christian Lexer**
Evolutionary outcomes of hybridization in *Populus*
- 14.20-14.40 **Simon Joly**
On the phylogeny of organisms using allelic variation and its relevance for studying non-hierarchical evolution
- 14.40-15.00 **Mattias Jakobsson**
The number of genetic founding lineages
- 15.00-15.20 **Bengt Sennblad**
Extending models of genome evolution to include non-hierarchical events
- 15.20-16.0 Coffee

Saturday August 25
Location: Ekonomikum 3

Symposium 5: The population consequences of adaptive processes

Organizers: Daniel Rankin, University of Bern, Switzerland
Jean-François Le Galliard, University Paris VI, France

- 9.45-10.15 **Nelson Hairston (invited)**
The consequences of rapid evolution for community dynamics
- 10.15-10.45 **Maurice Sabelis (invited)**
Milkers and Killers in a predator-prey metapopulation-feedbacks between ecological and evolutionary processes
- 10.45-11.05 **Tom Price**
Sex ratio drive and extinction
- 11.05-11.35 Coffee
- 11.35-11.55 **Renee Duckworth**
Evolution of behaviour at the edge of a range expansion
- 11.55-12.15 **Dylan Weese**
Population recovery under selection on migrants: experimental evaluation in wild guppy populations
- 12.15-12.35 **Anssi Vainikka**
Population-level consequences of evolution in size at maturation in herring-like fishes utilizing one or two resource niches
- 12.35-12.55 **Ilkka Hanski**
Coupling of ecological and evolutionary dynamics in the dispersal of the *Glanville fritillary* butterfly
- 12.55-14.00 Lunch

Saturday August 25
Location: Ekonomikum 1

Symposium 16: Cytonuclear coevolution and the evolution of hybrid zones

Organizers: Johan Lindell, University of Toronto, Canada
Staffan Bensch, Lund University, Sweden

- 9.45-10.15 **David Rand (invited)**
Mitonuclear coadaptation, epistasis and fitness
- 10.15-10.45 **Ronald Burton (invited)**
The role of nuclear/mitochondrial genome incompatibility in interpopulation hybrid breakdown
- 10.45-11.05 **Damian Dowling**
Cytonuclear coevolution and the effects of cytonuclear disruption on hybrid viability in a seed beetle
- 11.05-11.35 Coffee
- 11.35-11.55 **Oliver Niehuis**
Cytonuclear genic incompatibilities in hybrids of *Nasonia* parasitoid wasps
- 11.55-12.15 **Laurene Gay**
Detecting cytonuclear conflicts by comparing introgression rates between mitochondrial and nuclear DNA in two zones of secondary contact between large gulls.
- 12.15-12.35 **Andreia Miraldo**
Mitochondrial DNA heteroplasmy and recombination in a reptilian secondary contact zone
- 12.35-12.55 **Jacek Szymura**
Can negative cytonuclear interactions explain mtDNA patterns in *Bombina* hybrid zones?
- 12.55-14.00 Lunch

Saturday August 25
Location: Ekonomikum 4

Symposium 17: Why MHC makes the difference – its role in various fields

Organizers: Tobias Lenz, Max Planck Institute for Evolutionary Biology, Germany
Christophe Eizaguirre, Max Planck Institute for Evolutionary Biology, Germany

- 9.45-10.15 **Simone Sommer (invited)**
Genes, health & sex: the role of immune gene variability (MHC) in parasite resistance and mate choice
- 10.15-10.45 **Gabriele Sorci (invited)**
Adaptive MHC variation in a non-model species
- 10.45-11.05 **Karin Berggren**
Allelic combinations of promoter and exon 2 in DQB1 in dogs and wolves.
- 11.05-11.35 Coffee
- 11.35-11.55 **Mark Gillingham**
MHC and sexual selection in the fowl, *Gallus gallus*
- 11.55-12.15 **Nina Schwensow**
MHC, parasites and mate choice in a free living primate
- 12.15-12.35 **Claire Loiseau**
Antagonistic effects of a MHC Class I allele on malaria infected house sparrows
- 12.35-12.55 **Dustin Penn**
MHC genes and individual odour
- 12.55-14.00 Lunch

Saturday August 25
Location: University building IX

Symposium 18: The origins and spread of agriculture: an evolutionary perspective

Organizers: Terry Brown, University of Manchester, UK
Martin Jones, University of Cambridge, UK

- 9.45-10.15 **Wayne Powell (invited)**
Evolution and domestication of crop plants: new insight from population-based resequencing of candidate genes
- 10.15-10.45 **Robin Allaby (invited)**
Modelling approaches with multilocus systems and the origins of agriculture
- 10.45-11.05 **Huw Jones**
Diversity of the photoperiod response gene Ppd-H1 in European barley and evidence for the origins of an adaptive trait
- 11.05-11.35 Coffee
- 11.35-11.55 **Hazel Goodwin**
The Evolution and Spread of *Triticum aestivum* in Europe
- 11.55-12.15 **Jennifer Cunniff**
Response of wild C4 crop progenitors to subambient CO2 highlights a possible role in the origin of agriculture
- 12.15-12.35 **Thure Hauser**
Hybridization and evolution between cultivated plants and wild relatives
- 12.35-12.55 **Anna Westerbergh**
Genetic and phenotypic changes in the evolution of the tropical crop cassava (*Manihot esculenta* spp. *esculenta*)
- 12.55-14.00 Lunch

Saturday August 25
Location: University building X

Symposium 20: Mating competition and sex-role dynamics

Organizers: Tony Wilson, University of Zürich, Switzerland
Ingrid Ahnesjö, Uppsala University, Sweden

- 9.45-10.15 **Stephen Shuster (invited)**
The operational sex ratio, the potential reproductive rate and the opportunity for sexual selection
- 10.15-10.45 **Lotta Kvarnemo (invited)**
Operational sex ratio and varying sexual selection
- 10.45-11.05 **Hanna Kokko**
Why do males compete for matings?
- 11.05-11.35 Coffee
- 11.35-11.55 **Stéphanie Bedhomme**
Sexual conflict and immune function: Is immunocompetence a sexually antagonistic trait?
- 11.55-12.15 **Katja Heubel**
Female-biased operational sex ratio increases the current reproductive effort of females
- 12.15-12.35 **Suzy Renn**
Sex, sex-roles, and dominance: a functional genomics approach
- 12.35-12.55 **Henrik Pärn**
Age before beauty - Do ornament fitness-correlations in female birds imply male mate choice?
- 12.55-14.00 Lunch

Saturday August 25
Location: Ekonomikum 3

Symposium 10: Evolution of sex chromosomes

Organizers: Dmitri Petrov, Stanford University, USA
Peter Arndt, Max Planck Institute for Molecular Genetics, Germany

- 14.00-14.30 **A. Bernardo Carvalho (invited)**
Origin and evolution of the Y chromosome: *Drosophila* tales
- 14.30-15.00 **Hans Ellegren (invited)**
Rapid evolution of sex-linked genes in a female heterogametic system
- 15.00-15.20 **John Baines**
Adaptive evolution of X-linked and autosomal genes with sex-biased expression
- 15.20-15.50 Coffee
- 15.50-16.10 **Kateryna Makova**
What does it take to stay on sex chromosomes? The survival guide for genes
- 16.10-16.30 **Roberta Bergero**
Evolutionary strata on the X chromosomes of the dioecious plant *Silene latifolia*:
evidence from new sex-linked genes
- 16.30-16.50 **Dmitry Filatov**
Multigenic view of the sex chromosome evolution in *Silene latifolia*
- 16.50-17.10 **Hanna Johannesson**
"Evolution of the mating-type chromosome in the filamentous ascomycete
Neurospora tetrasperma – implications for sex chromosome evolution"

Saturday August 25
Location: University building IX

Symposium 11: Gender perspective in evolutionary biology

Organizers: Malin Ah-King, Stockholm University, Sweden
Måns Andersson, Uppsala University, Sweden

- 14.00-14.30 **Marlene Zuk (invited)**
Role models and model systems: how gender bias affects our science
- 14.30-15.00 **Patricia Adair Gowaty (invited)**
Chance, time and the origins of adaptive, sex-neutral "sex roles"
- 15.00-15.20 **Margareta Segerståhl**
Novel systems view on eukaryotic sexual reproduction
- 15.20-15.50 Coffee
- 15.50-16.10 **Daniel Rankin**
Male harassment and the tragedy of the commons
- 16.10-16.30 **Krzysztof Hoffmann**
Can metaphors have a good sex?
- 16.30-16.50 **Hans Van Gossum**
Polychromatism in female damselflies (Insecta: *Zygoptera*): to be or not to be male-like?
- 16.50-17.10 **Shinichi Nakagawa**
The cheating and the cheated: a relatively complete picture of 'hidden' sexual selection

Saturday August 25
Location: Ekonomikum 1

Symposium 12: Association mapping in evolutionary biology: emerging concepts and insights from model species

Organizers: Martin Lascoux, Uppsala University, Sweden
Thomas Bataillon, University of Århus, Denmark
Outi Savolainen, University of Oulu, Finland

- 14.00-14.30 **Carsten Wiuf (invited)**
The coalescent as a tool for association mapping
- 14.30-15.00 **Isabelle Goldringer (invited)**
Low linkage disequilibrium around strongly selected genes in experimental selfing populations
- 15.00-15.20 **Stephen Wright**
Natural selection mapping in plant genomes
- 15.20-15.50 Coffee
- 15.50-16.10 **Martin Lascoux**
- 16.10-16.30 **Fabrice Roux**
Genome-Wide Association mapping in *Arabidopsis thaliana* to identify genes causing quantitative resistance to the pathogen *Pseudomonas viridiflava*
- 16.30-16.50 **Koen Verhoeven**
Epistasis, obstacle or advantage for association mapping ?
- 16.50-17.10 **Jakob Mueller**
Zooming in on genetic fine-scale mapping

Saturday August 25
Location: Ekonomikum 4

Symposium 21: Floral Evolution: mechanisms behind shifts in pollination strategies

Organizers: Johanne Maad, Uppsala University, Sweden
Miguel Rodriguez-Girones, CSIC, Almeria, Spain

- 14.00-14.30 **Steven Johnson (invited)**
Patterns and processes of pollinator-driven plant diversification
- 14.30-15.00 **Elizabeth Elle (invited)**
Floral evolution and mating system shifts: selection by pollinators and climate
- 15.00-15.20 **Rodrigo Medel**
Disentangling the complexity of pollinator-mediated selection
- 15.20-15.50 Coffee
- 15.50-16.10 **Eric Imbert**
Flower colour polymorphism in *Iris lutescens* : does the colour matter?
- 16.10-16.30 **Per Toräng**
Mutualists and antagonists mediate frequency dependent reproductive success in a dimorphic herb
- 16.30-16.50 **Luc Gigord**
Can rewardlessness be an ESS...? An in situ experimental test using the food-deceptive European orchid *Himantoglossum robertianum*
- 16.50-17.10 **Katja Hogendoorn**
Biogeography of Australian bees and evolution of flower morphology

Saturday August 25
Location: University building X

Symposium 22: Process and implications of phenotype-dependent dispersal and settlement

Organizers: Pim Edelaar, Texas A&M University, USA
Jean Clobert, Université Pierre et Marie Curie, France

- 14.00-14.30 **Dan Bolnick (invited)**
Examining adaptive variation at multiple spatial scales in threespine stickleback
- 14.30-15.00 **Ben Sheldon (invited)**
Natal environment, dispersal, and the impermanence of environmental effects in the great tit
- 15.00-15.20 **Marjo Saastamoinen**
Spatial variation in dispersal rate and related life history traits in a butterfly metapopulation
- 15.20-15.50 Coffee
- 15.50-16.10 **Fabrice Eroukhmanoff**
Habitat choice, phenotype-dependent dispersal and parallel evolution in a freshwater isopod
- 16.10-16.30 **Audrey Chaput-Bardy**
Morphological clines and consequences on dispersal in dendritic landscapes
- 16.30-16.50 **Jean-François Le Galliard**
Influence of past and present environments on natal dispersal behaviour in small mammals
- 16.50-17.10 **Julien Cote**
Social personalities influence natal dispersal and fitness outcomes in common lizard (*Lacerta vivipara*)