

Thursday 22nd November 2018

09:00 REGISTRATION

09:30 WELCOME

GENOTYPE TO PHENOTYPE

09:45 **Chris Jiggins**
Signatures of selection at adaptive wing patterning genes in *Heliconius* butterflies.

10:15 **Alistair McGregor**
Changes in tartan underlie differences in male genital morphology between *Drosophila* species.

10:30 **Anne Charmantier**
Urban versus forest ecotypes in great tits: from phenotypic differentiation to population genomics.

11:00 **Frank Chan**
An integrative genomic analysis of the Longshanks selection experiment for longer limbs in mice.

11:15 TEA/COFFEE & POSTERS

11:45 **Andreas Sutter**
What drives and maintains genetic variation in polyandry?

12:00 **Melanie Brien**
Genetics and condition-dependence of structural colour in *Heliconius* butterflies.

12:15 **Miltos Tsiantis**
The genetic basis for diversification of leaf form: from understanding to reconstructing.

12:45 LUNCH

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CONFLICT AND CONSTRAINT

- 14:00 **Katrina McGuigan**
Investigating causes of bias in the distribution of heritable phenotypic variation.
- 14:30 **Ben Ashby**
Understanding the role of eco-evolutionary feedbacks in genetic and phenotypic models of antagonistic coevolution.
- 14:45 **Andrew Pomiankowski**
Sexual conflict explains the extraordinary diversity of mechanisms regulating mitochondrial inheritance.
- 15:00 **Susan Johnston**
Why is genetic variation in individual recombination rate maintained in mammals?
- 15:30 TEA/COFFEE & POSTERS
- 16:00 **Bonnie Fraser**
Insights from long-read assembled male genome reveals population variation in guppy sex chromosome evolution.
- 16:15 **Lara Meade**
Adaptive maintenance of fertility in the face of meiotic drive.
- 16:30 **Raphaël Royauté**
Genetic architecture of behavioural syndromes in field crickets: adaption or constraint?
- 16:45 **Ned Dochtermann**
Wrightian versus Holey landscapes: implications for multivariate phenotypes and within-population trait covariation
- 17:00 **Nina Wedell**
Sex, Conflict and Selfish Genes.
- 17:30 GENETICS SOCIETY AGM
- 18:00 DRIKS RECEPTION AND POSTERS
- 19:30 GALA DINNER (REED HALL)

Friday 23rd November 2018

GENES IN ENVIRONMENTS

- 09:00 **Edze Westra**
The evolutionary ecology of CRISPR-phage interactions.
- 09:30 **Waldir Berbel-Filho**
Two sides of the same coin: epialleles diverge, phenotypes converge.
- 09:45 **Robert Griffin**
Environmental effects on G matrices in humans
- 10:00 **Eleanor O'Brien**
Interacting effects of the abiotic and biotic environment on fitness and evolutionary potential of rainforest *Drosophila*.
- 10:15 TEA/COFFEE & POSTERS
- 11:00 **Mijke van der Zee**
Using whole genome sequences of newly introduced populations reveals rapid genetic convergent evolution in guppies.
- 11:15 **Jonathan Bridle**
Whither local adaptation? Testing how patterns of plasticity and environmental variance affect evolutionary rescue in natural populations.
- 11:30 **Erik Postma**
Human life history evolution in a rapidly changing world
- 12:00 LUNCH

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EARLY CAREER RESEARCHERS

13:15	Filip Ruzicka Genome-wide sexually antagonistic polymorphisms reveal longstanding constraints on sexual dimorphism in the fruitfly.
13:30	Laura Travers Why do dietary restricted animals live longer? Testing the evolutionary theories.
13:45	Elisa Perez Bada Early-life conditions and their effect on senescence in European badgers: all's well that ends well?
14:00	Helena Wells A genome wide association study in the UK Biobank cohort identifies a large number of genome-wide significant loci linked to self-reported adult hearing ability.
14:15	TEA/COFFEE & POSTERS

MICRO TO MACRO

14:45	Matthew Webster The genomic basis of local adaptation and speciation: lessons from birds and bees.
15:15	Aida Andres Genetic differentiation among chimpanzee subspecies and adaptations to viral infections.
15:30	Leslie Turner Investigating genetics of hybrid dysfunction using inbred strains derived from natural populations in the house mouse hybrid zone.
15:45	Walter Salzburger Understanding adaptive radiation and explosive diversification through cichlid fish genomics
16:15	CLOSING REMARKS AND PRIZES