

Wednesday 17th December

Plenary

9.00-9.50

Bryan Clarke

What can related species living together tell us about evolution?

Julian Hodge LT

10.00-10.20

Katy Morgan

Pleistocene radiation of the forest-dependent *Leucospyrus* group of *Anopheles* mosquitoes across Southeast Asia

10.20-10.40

Laura Corrigan

Mechanisms of phenotypic divergence and the evolution of reproductive isolation in sympatric populations of Arctic charr

10.40-11.00

Simit Patel

The use of AFLP markers to detect selection in the land snail, *Cepaea nemoralis*

11.40-12.00

Helen Senn

Hybridisation between invasive sika (*Cervus nippon*) and native red deer (*Cervus elaphus*) on the Kintyre Peninsula, Scotland.

12.00-12.20

Eugenia Zarza

Hybridization, introgression and cytonuclear discordance in inter- and intra-specific contact zones of the Mexican black spiny-tailed iguana.

12.20-12.40

Stuart Baird

Genetic conflict outweighs heterogametic incompatibility in the mouse hybrid zone?

14.00-14.20

Andrew Tedder

Pseudogene based phylogeography of *Arabidopsis lyrata*

14.20-14.40

Chris Dixon

Widespread species in island radiations: the case of *Schiedea globosa* H.Mann in the Hawaiian Islands

14.40-15.00

Petri Kempainen

Concerted ecotype evolution in the flat periwinkle, *Littorina fabalis*

15.40-16.00

Simon Baxter

Genetic variation at a butterfly wing patterning locus

16.00-16.20

Laura Ferguson

Parallel and divergent pigmentation patterns of mimetic *Heliconius* butterflies

16.20-16.40

Marianne Elias

Mutualistic mimicry drives ecological niche convergence in a diverse butterfly community

16.40-17.00

Mathieu Joron

Genomic rearrangements and the formation of a polymorphic mimicry supergene in *Heliconius numata*

Business LT 2

10.00-10.20

Joao Lopes

Studying historic demographic parameters using an approximate bayesian computation

10.20-10.40

Kevin Dawson

Bayesian hierarchical clustering

10.40-11.00

Jianliang Wang

A new method for estimating effective population sizes using a single sample of multilocus genotype

Coffee

11.40-12.00

Simon Aeschbacher

Joint parameter estimation in bottlenecked populations using Approximate Bayesian Computation

12.00-12.20

John Welch

Using fossils in molecular dating: Determinants of rate variation in mammals

12.20-12.40

Richard Nicols

Was Wright wrong? A replicated empirical estimate of differentiation among populations

Lunch

14.00-14.20

Grazyna Korbecka

Genetic signatures of patch-level dynamics in plant populations with contrasting sexual systems

14.20-14.40

Peter Hoebe

Mating system evolution in *Arabidopsis lyrata* ssp. *lyrata*

14.40-15.00

Anabelle Haudry

Mating system and recombination affect molecular evolution in four *Triticeae* species

Coffee

15.40-16.00

Marco Andreollo

Demographic based estimates of effective population size for the perennial plant

16.00-16.20

Marc Stift

Segregation of the loss of self incompatibility (SI) in North-American *Arabidopsis lyrata*

16.20-16.40

Mikko Lehto

Ecological differentiation between sexual and asexual *Daphnia pulex*

16.40-17.00

Laura Michie

Mating success of different colour morphs in three coccinellid species (*Harmonia axyridis*, *Adalia bipunctata* and *Adalia decempunctata*)

17.00

Poster Session

Business LT 3

10.00-10.20

Daniel Halligan

High rate of adaptive protein evolution in wild mice

10.20-10.40

Tobias Warnecke

The impact of chromatin structure on the evolution of protein-coding sequence in yeast

10.40-11.00

Toni Großmann

Evolution of NAD metabolism

11.40-12.00

Juliette de Meaux

Evolution of flagellin sensing in *Arabidopsis thaliana* and its relatives

12.00-12.20

Pernilla Vallenback

Molecular organisation of the transgene *PgiC2* in *Festuca ovina*

12.20-12.40

Iris Fischer

The role of the *Asr* gene family in Adaption to Drought in wild tomatoes

14.00-14.20

Nancy Irwin

Cryptic sympatric diversity at a deep phylogenetic level in endangered tube-nosed bats, *Nyctimeninae*

14.20-14.40

Sara Goodacre

The dynamics of population differentiation in aeronautic spiders: What makes a spider fly

14.40-15.00

Alain Frantz

Using spatial Bayesian clustering methods in a continuous population: clusters or isolation-by-distance?

15.40-16.00

Hannah Dugdale

Reproductive constraint and senescence in the European badger *Meles meles*

16.00-16.20

Thomas White

Population genetics in the deep sea

16.20-16.40

Mark de Bruyn

Response of the southern elephant seal to habitat release and loss during Holocene climate change

16.40-17.00

Amber Teacher

How does disease affect population genetic variation

19.00 Dinner (Aberconway Building)

Thursday 18th December

Plenary

9.00-9.50

Mark Jobling

It's a man thing: the Y chromosome as a tool for studying human populations

Julian Hodge LT

10.00-10.20

Bruce Winney

The need for a well characterised UK Control Population

10.20-10.40

Turi King

Surnames and population diversity

10.40-11.00

Shuhei Mano

Biased Gene Conversion Hypothesis and Evolutionary rate of Multigene Families

11.40-12.00

Vitor Sousa

Estimation of admixture proportions using Approximate bayesian Computation (ABC) with applications to study human populations

12.00-12.20

Per Sjödin

Insertion and Deletion Processes in Recent Human History

12.20-12.40

Matthew Webster

Hotspots of biased nucleotide substitutions in human genes

14.00-14.40

Francois Balloux

Plenary

The long march of human genes

14.40-15.00

Daniel Falush

Inferring human admixture history by sloppy painting.

15.40-16.00

Ed Hollox

Dynamic defensins: mutation, variation and evolution of human structural variation

16.00-16.20

Joanna Parmley

Codon usage and the regulation of gene function in humans

16.20-16.40

Richard Neher

Collective effects of weak epistatic polymorphisms in presence of recombination

16.40-17.00

Alan Hodgkinson

Tri-allelic sites: two new alleles from one?

Business LT 2

10.00-10.20

Daniel Jeffares

Long and short term selection in malaria parasite genomes

10.20-10.40

Louise Johnson

Selfish elements favour a sequestered germline

10.40-11.00

Sophie Maron de Proce

Polymorphism data shows that first introns in *Drosophila americana* are subject to natural selection

Coffee

11.40-12.00

Kai Zeng

Estimating selection intensity on synonymous codon usage in a non-equilibrium population

12.00-12.20

Lel Eory

Comparing genic selective constraints in hominids and murids

12.20-12.40

Jessica Thomas

A generation time effect in invertebrate molecular evolution: Implications for the genetic draft hypothesis

Lunch

14.00-14.20

Catherine Pink

Evidence that replication associated mutation alone does not explain between-chromosome differences in substitution rates

14.20-14.40

Vittoria Elliott

Characterisation of the Y-Chromosome in Cetaceans

14.40-15.00

Deborah Charlesworth

Y chromosome haplotypes in the plant *Silene latifolia*

Coffee

15.40-16.00

Brian Charlesworth

Revisiting the theory of faster-X evolution

16.00-16.20

Adam Eyre-Walker

Variation in the effective population size of animal mtDNA

16.20-16.40

Andrea Bettancourt

Low recombination reduces adaptation: the dot chromosome of *Drosophila americana*

16.40-17.00

Thomas Bataillon

The number and size of mutations fixed during an adaptive walk

Business LT 3

10.00-10.20

Darren Obbard

Population genomics of the *Drosophila* Immune system: A Solexa approach

10.20-10.40

Simon Creer

Assessing temperature benthic meiofaunal diversity using 454 metagenetics

10.40-11.00

Christian Schlotterer

Gene expression by massively parallel sequencing—the potential for model and non-model species

11.40-12.00

Eddie Brede

Is Jimminy Cricket an ideal solution to the problem of water hyacinth or (unlike Pinnocchio) does he/it have strings attached?

12.00-12.20

Samantha Wilkinson

The genetic substructure of British traditional and commercial pig breeds

12.20-12.40

Jenny Hagenblad

19th century seeds reveal the population genetics of historic barley

14.00-14.20

Geoff Hobbs

Population genetic structure of a recovering otter (*Lutra lutra*) population in the UK.

14.20-14.40

Marie Pointer

Identifying the genetic basis for colour polymorphism in the Common Buzzard

14.40-15.00

Nick Barton

A new model for large-scale population dynamics: quantifying phylogeography

15.40-16.00

Sharon Zytynzka

Community Genetics in a Tropical Forest Ecosystem: tree genotype influences epiphytic plant communities

16.00-16.20

Stephen Ansell

Outside the European phylogeographic box: Turkey is the centre of global diversity for the arctic-alpine *Arabis alpina* (L.)

16.20-16.40

Anja Horger

Evolution of pathogen resistance pathways in wild tomato

16.40-17.00

Stacey Lee Thompson

An applied population genomic approach to assess the risks posed by trees with novel traits

17.00

19.30

Business Meeting (Julian Hodge Lecture Theatre)

Conference Dinner at the National Museum of Wales

Friday 19th December

Plenary

9.00-9.50

Mark Blaxter

On the peculiarities of nematode genomes

Julian Hodge LT

10.00-10.20

Andrew King

Opening a can of worms: unprecedented sympatric cryptic diversity within British lumbricid earthworms

10.20-10.40

Jane Andre

The population and functional genetic basis underlying Pb tolerance in the earthworm *L. rubellus*: illustrating the adage “‘physiologically the Pb stream’ follows the ‘calcium stream’”

10.40-11.00

David Lunt

Genetic tests of ancient asexuality in Root Knot Nematodes reveal recent hybrid origins

11.40-12.00

Gabriela Juma

Evolutionary dynamics in a soil-dwelling sentinel

12.00-12.20

Daniel Stoebel

Experimental evolution of a global regulatory network in *E.coli*

12.20-12.40

Melissa Ward

Epistatic interactions between HA and NA in avian influenza

12.40-13.00

Pamela Styles

Horizontal transfer of transposable elements in *Drosophila*

Business LT 2

10.00-10.20

Samuel Dobbie

Limited dispersal helps preserve genetic polymorphism in coevolving plant-pathogen recognition genes

10.20-10.40

Cock van Oosterhout

A new theory of MHC evolution

10.40-11.00

Mark McMullan

Genetic variation at the Major Histocompatibility Complex (MHC) in wild guppy populations with contrasting parasite faunas

Coffee

11.40-12.00

Lena Wilfert

Genetic interactions in an Insect-Virus system

12.00-12.20

Sam Tazzyman

How much sperm should an attractive male invest?

12.20-12.40

Penelope Hadrill

Elevated levels of expression associated with regions of the *Drosophila* genome that lack crossing over.

12.40-13.00

Business LT 3

10.00-10.20

Kermit Ritland

The correlation of gene diversity between linked loci, a neglected parameter of genome structure

10.20-10.40

Christoph Haag

Homozygosity reduces resistance against asexual invaders in experimental *Daphnia pulex* populations

10.40-11.00

Falk Hildebrand

Testing for directional mutation pressure in bacteria

11.40-12.00

Lawrence Loewe

The Distribution of Mutational Effects on Fitness in a Simple Circadian Clock

12.00-12.20

Nina Stoletzki

The correlation between omega and ds is due to ruins of multiple adjacent substitutions

12.20-12.40

Martin Carr

Widespread replacement of an "essential" gene within Opisthokonta

12.40-13.00

Lunch