

DAY 1 – January 7 <sup>th</sup>				
Time	Amphi A	Amphi B	Salle C	Salle D
13:30	Welcome (Amphi A and overflow room)			
13:45	Plenary 1 – Denis Roze - Genetic associations and the evolution of genetic mixing (Amphi A and overflow room)			
15:00	Paulo SOUSA (S) - Novel method to estimate population genetic statistics from haplo-diploid data	Ewan FLINTHAM - Sexual antagonism, mating systems, and recombination suppression on sex chromosomes	Zoe POSTEL - Loss of distyly in Linum: is shift to higher selfing-rate the main rule?	Erik F. SORENSEN - Chromosome X in primates is extremely deprived of diversity
15:15	Ehouarn LE FAOU (S) - Disruption of sex determination exposes hotspots of sexual antagonism in <i>Mercurialis annua</i>	Lisa AMMER (S) - Single-cell transcriptomics reveal drivers of sex-specific recombination landscapes in the house sparrow	Claire PATIOU - Pervasive translation of short open reading frames and de novo gene emergence in <i>Arabidopsis</i>	Abosede E. OLAREWAJU (S) - Genomic variation in <i>Heligmosomum mixtum</i> : insights into host-parasite coevolution
15:30	Anastasia KOLESNIKOVA (S) - The crops we domesticated: do mutation rate and selection impact domesticability?	Noah BOURNE (S) - Repeated lateral gene transfer of the same DNA fragment into multiple grass species	Nina VITTORELLI (S) - Repeated losses of self-fertility shaped heterozygosity and polyploidy in yeast evolution	Martin CARR - Natural selection and mutation pressure, upon both mRNA and tRNA genes, determine codon bias in <i>Trichomonas vaginalis</i>
15:45	Malvika SRIVASTAVA - Caste antagonism and the maintenance of polymorphism in ants	Alexander DOWNIE - Cryptic polygenic adaptation on body mass in wild meerkats	Ritam DAS (S) - Evolution of Gene Regulatory Networks under Negative Frequency-Dependent Selection	Elizabeth DAVIES (S) - Breaking the ploidy barrier: Genomic insights into allopolyploidy and cross-ploidy hybridisation in British plant <i>Euphrasia</i>
16:00	Bianca DE SANCTIS - Ancient environmental DNA from the Pliocene High Terrace deposits in the Canadian High Arctic	Anna HEWETT - Inbreeding depression across the lifespan of wild barn owls ( <i>Tyto alba</i> )	Juliane FRIEDRICH - Exploring climate adaptation in European Merino sheep: a landscape genomics approach	Paula GARDNER (S) - Global genetic structure and diversity in the widespread red fox
16:15	Bruna CAMA - Recent adaptation in deep-sea lanternfish (Myctophidae) in a changing climate	Susan JOHNSTON - Crossover and consequences: are individual recombination rates under selection?	Louise FOUQUEAU - Species' Packing along an Environmental Gradient	Harshavardhan THYAGARAJAN - The temporal dynamics of a balanced inversion polymorphism
16:30	Coffee Break			

Time	Amphi A	Amphi B	Salle C	Salle D
17:00	Yelle VANDENBOER (S) - Horizontal Transfer of Vingi Retrotransposons in a Putative Ancient Asexual	Anna GLUSHKEVICH (S) - Centromere diversity and turnover in Arabidopsis lyrata	Harry GORDON (S) - Whole-genome sequencing from mammalian snow prints	Arthur BODDAERT (S) - Does Sociality Shape Introgression in Insects?
17:15	Diyar HAMIDI (S) - Understanding the Evolutionary Origin of HLA Diversity in the Americas	Janeesh K. BANSAL (S) - Using genetic data to learn about malaria transmission	Augustin CHEN (S) - A population genetic approach to resolve human gastrulation	Lillith ZIJMERS (S) - Comparative analysis of inbreeding depression across eukaryotes
17:30	Jun ISHIGOHOKA - Adaptive randomness: How does phenotypic stochasticity fuel adaptive evolution?	Edward PAGE (S) - Convergent evolution of inversion-based supergenes in Lepidoptera	Eamon WINSHIP (S) - Epistasis informed protein models yield improved population genetic simulations	Rosie RANDAL (S) - Does bacterial cooperation facilitate the evolution of antibiotic resistance?
17:45	Vitor SUDBRACK (S) - The ecological basis of disruptive selection shapes recombination suppression and the evolution of chromosomal inversions	Anthony HERZIG - Impact of co-occurrent assortative mating and vertical cultural transmission on measures of genetic associations	Anna DEWAR - Plasmid GC content is shaped by host phylogeny, genetic context, and gene essentiality	Arthur WOJCIK (S) - Comparative analysis of barriers to gene flow between wild and domesticated forms in plants
18:00	Poster Session 1			

DAY 2 – January 8 <sup>th</sup>				
Time	Amphi A	Amphi B	Salle C	Salle D
9:20	General information (Amphi A and overflow room)			
9:30	Plenary 2 – Claire Mérot - TBA (Amphi A and overflow room)			
10:30	Coffee Break			
11:00	Chenxi WANG (S) - Inferring the demographic history of <i>Caenorhabditis elegans</i> while accounting for its self-fertilising reproductive mode	Loveday LEWIN (S) - Estimates of long-term effective population size reveal the rapid decline of endangered species	Fanny LAUGIER - The effects of linkage on polygenic adaptation	Saad ARIF - Historical and modern genomes reveal reducing connectivity and increasing genome erosion in a nationally endangered butterfly
11:15	Arne JACOBS - A mosaic of fixed and polymorphic genomic rearrangements underpins parasitism loss in European lampreys	Océane EYCHENNE (S) - Inferring recent demographic dynamics using IBD segments: a simulation framework.	Dante WENSBY (S) - The effect of paralogues on the site frequency spectrum	Bálint UVEGES - The complex population genomics of Eurasian vipers
11:30	Sean STANKOWSKI - Combining top-down and bottom up approaches to reveal the genetic basis of colour variation in a snapdragon hybrid zone	Benjamin ALSTON (S) - Sex Chromosome Evolution in Stalk-Eyed Flies	Gaurav DUTTA (S) - Modeling Genotype-by-Environment Interactions for Milk Yield Under Heat Stress in U.S. Holsteins	Yuqian HUANG (S) - Genetic basis and selection maintaining wing polymorphism in the evening brown butterfly, <i>Melanitis leda</i>
11:45	Frances SWIFT (S) - Investigating the cis-association between indel characteristics and allelic imbalance across insect orders	Burcin YILDIRIM - The genomic landscape and fitness effect of mutations	Theodore BROOK (S) - Speciation with gene flow on a remote oceanic island	Marion TALBI (S) - The speed of recombination landscape divergence scales with gene flow across fish species
12:00	Rosemonde POWER - Ancient DNA reveals past horse diversity at Denisova Cave, Siberia	Isabela DO O (S) - Identifying local adaptation of quantitative traits in structure populations	Katie WILLIS - Designs for partial population suppression using engineered balanced lethals	Finley GROVER-THOMAS (S) - Signatures of Mitonuclear Coevolution in the Mexican Biobank
12:15	Mark BLAXTER - Tree of Life: Genomes at scale for all of diversity	Hannes BECHER - ARGs of empirical datasets - utility, limitations, outlook	Kora KLEIN - Routes to Sciarid strangeness: modelling chromosome elimination and a selfish linkage group	Jinyang LIANG - Polarizing SNPs without outgroup

Time	Amphi A	Amphi B	Salle C	Salle D
12:30	Lunch break (Business meeting at 13:00 in Amphi A)			
14:00	Marilou BODDE - Genomic diversity of the African malaria vector <i>Anopheles funestus</i>	Adam CIEZAREK - Improving fisheries management through population genomics	Emma DIEPEVEEN (S) - The molecular evolution of ampliconic genes in primates	Diane DOUET (S) - Is selfing the best strategy for polyploids to establish ?
14:15	Fabian FREUND - Isolated populations of endemic <i>Arabidopsis</i> species show divergent evolutionary histories	Filip RUZICKA - The enduring mystery of faster-X (and faster-haploid) adaptation	Eva KOCH - Neo-sex chromosomes contribute to reproductive isolation between egg-laying and live-bearing lizards	Julien JOSEPH - Evolutionary drivers of the mammalian meiotic recombination pathway
14:30	Gina HENDERSON (S) - The genomic basis and evolution of maternal genetic effects on early-life immunity in Soay sheep	David S. RICHARDSON - Phenotypic and genomic impacts of using inbred versus outbred rescuers in experimental genetic rescue	Miguel DOS SANTOS - Inherited family reputations and human cooperation through indirect reciprocity	João SOUTO (S) - Incomplete Lineage Sorting and Its Role in the Recurrent Evolution of Parthenogenesis in <i>Timema</i> Stick Insects
14:45	Abdelmajid OMARJEE (S) - The frontier of SFS-based demographic inference	Marie RAYNAUD - Functional and genomic features shape the recombination hotspot landscape of the house sparrow	Gabriela MONTEJO-KOVACEVICH - Genomic time-series of a butterfly biocontrol agent in the South Pacific	Pierre FAUX - Understanding recent demographic history: lessons from honey bee populations
15:00	Menno DE JONG - Species delimitation using genome-wide Dxy- and Fst-estimates	Yu ZHANG (S) - Comparative analysis of demographic inference tools under declining population model	Asad HASAN (S) - Evolutionary rescue in a consumer-resource system	Madeleine CARRUTHERS - Cis-regulatory divergence and heritable plasticity underlie seasonal adaptation in a tropical butterfly
15:15	Xavier VEKEMANS - What can we learn about speciation from high levels of allele sharing at loci subject to strong balancing selection?	Vincent CASTRIC - Sex in the trees : from mating types to sexes in the Oleaceae family"	Hildegard UECKER - How do mate-finding Allee effects affect evolutionary rescue?	Kathryn ELMER - Convergent molecular evolution of viviparity across squamate reptiles
15:30	Coffee Break			

Time	Amphi A	Amphi B	Salle C	Salle D
16:00	Max CARTER-BROWN - Structure and syntenic across diverse plant mitochondrial geno	Amanda GARDINER (S) - Genetic diversity, runs of homozygosity, and demographic history across vertebrates	Milind C. MUTNALE (S) - Genomic Admixture and Mitonuclear Discordance Reveal Complex Population History in the Parasite <i>Tetracapsuloides bryosalmonae</i>	Morgan JONES (S) - The PhyloODB Pipeline for generating scalable phylogenetically informative datasets using BUSCO and OrthoFinder
16:15	Carolyn KOSIOL - PoMoBalance: Detecting longstanding trans-species balancing selection	Cian WILLIAMS (S) - Accounting for local adaptation alters predictions of habitat suitability for an invasive crop pest	Xueling YI - Nonrandom missing data can bias PCA inference on population genetics	Sophia BELKHIR (S) - Mitochondrial horizontal transfer in Tasmanian Devils transmissible cancers
16:30	Els DE KEYZER - Ongoing introgression shapes diversification of an adaptive radiation of Sulawesi sailfin silverside fishes	Katarina PIPONI (S) - Beyond Direct Reproduction: Maternal Kin Explain the Maintenance of Same-Sex Sexual Behaviour in Macaques	Srishti ARYA (S) - Meiofaunal Systematics using Nanopore transcriptome skimming	Alexandros TOPALLOUDIS (S) - Mutation rate in barn owls
16:45	Maud FAGNY - The Importance of Regulatory Network Structure for Polygenic Trait Heritability and Evolution.	François MALLARD - The genetic architecture of phenotypic plasticity	Emma CURRAN - Population structure and local adaptation in a dune-building grass species	Romann CHARBONNIER (S) - Quantifying the evolutionary dynamics of cytoplasmic male sterility
17:00	Poster Session 2			

DAY 3 – January 9 <sup>th</sup>				
Time	Amphi A	Amphi B	Salle C	Salle D
9:20	General information (Amphi A and overflow room)			
9:30	Plenary 3 – Florencia Camus - TBA (Amphi A and overflow room)			
10:30	Coffee Break			
11:00	Victoria LLOYD - The genomic and developmental basis of an honest sexual signal in the stalk-eyed fly <i>Teleopsis dalmanni</i>	Georg LANGEBRAKE (S) - From migrants to residents: Genomic insights into adaptive strategies in European robins ( <i>Erithacus rubecula</i> )	Marit KUIJT (S) - Adaptive potential of hybridization despite initial hybrid breakdown	Christopher LAUMER - Rapid, nearly-full length rRNA cistron nanopore sequencing of single meiofaunal individuals
11:15	Nicholas BAILEY - Deep Learning for Balancing Selection, Demography, and Recombination Variation	Fanny POUYET - Exploring the impact of meiotic frequency on genome-wide genetic diversity	Tram VI - Conserved genomic landscapes of variation in two common invasive birds	Meng LU - HetMix: A Heterozygosity-Based Genome Scan for Detecting Incomplete Introgressed Sweeps
11:30	Alexander MACKINTOSH - Estimating and interpreting genome-wide genealogies from predominantly selfing populations	Ina SATOKANGAS - How do inversion supergenes influence adaptation in a changing environment?	Debbie LEIGH - Building the Genetic Commons: How Better Archiving Could Transform Evolutionary Insights	Muskaan MUSKAAN (S) - Molecular evolution in Bryophytes: How ploidy drives patterns and efficacy of natural selection
11:45	Charles MICHIE (S) - A viral hitchhiker's guide to the genome: ancient and recent invasions of the slow loris	Omar Enrique RUELAS PACHECO (S) - Morphological Traits for the Species Delimitation under a Polymorphism-Aware Phylogenetic Models approach	Diana GONZALEZ (S) - Genetic variation and evolutionary dynamics of three largely maternally inherited genetic elements in the zebra finch	Yifan PEI - Characterizing the germline-restricted chromosome in a hybrid-species complex of sparrows
12:00	Nicholas BARTON - Pedigrees, ARG and fitness	Nicolas BIERNE - Anthropogenic Hybridization in Altered Marine Habitats	Martin A. GBUR (S) - Limits to species' range under the infinitesimal model	Bertrand SERVIN - Improved prediction of complex traits in populations under polygenic selection by combining population and quantitative genetics
12:15	Chris ILLINGWORTH - Strong selection against genetic variation during influenza A virus transmission	Yan WONG - Tskit 1.0: a framework for efficient ARG analysis	Riccardo POLINI - Diversification of the widespread <i>Morpho helenor</i> across the Neotropical region uncovered by genomic analysis	Robert KOFLER - History of transposable element invasions in <i>Drosophila melanogaster</i>

Time	Amphi A	Amphi B	Salle C	Salle D
12:30	Lunch break			
14:00	Amy ROBINSON (S) - The effect of facultative sex on fitness in rotifer populations	Jon BRIDLE - Simulated heatwaves cause rapid and multidimensional evolution including weaker thermal tolerance in host-parasitoid communities	Diana LOBO - Adaptation and (epi)genomic erosion in small, isolated populations: insights from the critically endangered Apennine brown bear	Hannes SVARDAL - Introgression dynamics of sex-linked chromosomal inversions shape the Malawi cichlid radiation
14:15	Wen-Juan MA - Evolution of key sex-determining genes and its role in sex chromosome turnover in anurans	Peter PRICE - Evolution of sex-bias genes	Yannick WURM - ARIA funding in the Engineering Ecosystem Resilience space	Paul BUNEL (S) - Joint inference of selection and demography from genomic time series
14:30	Thomas LENORMAND - Haldane's rule and regulatory evolution	Chon I KAM (S) - The evolution of socially modulated dispersal	Kanika GHILDIYAL (S) - Assessment of genotype imputation from low-coverage sequencing in admixed genomes	Oksana VERTSIMAKHA (S) - Mitigating resistance in gene drives using sex distortion strategies.
14:45	Rob HAMMOND - Sweeping Synaptic Genes in a Socially Polymorphic Ant	Kathy DARRAGH - Ancient and repeated origins of novel biosynthetic pathways in butterflies	Joseph HANLY - The mechanistic basis of a key lepidopteran evolutionary hotspot.	Océane SEUDRE - The genomic basis of phenotypic plasticity in African <i>Bicyclus</i> butterflies
15:00	Alya ZEINATY (S) - Towards co-evolution-aware ancestral sequence reconstruction: evolving beyond site-independent models	Léa NICOLAS (S) - Parallel evolution of balanced and clinal inversion polymorphisms in seaweed flies	Hanbin LEE (S) - Extracting phylogenetic attributes from molecular language model outputs	Laurent GUEGUEN (S) - Population genetics at a phylogenetic scale: simulations and inferences
15:15	Martin LASCOUX - Genetic diversity, census size and the efficacy of purifying selection across plant species	Andy GARDNER - Load-balancing dispersal promotes the evolution of altruism	Michael SALTER-TOWNSHEND - Spurious Associations, Missing Heritability, and Statistical Paradoxes due to Phenotypic Dependent Participation Bias.	Jennifer JAMES - Genome organisation and patterns of molecular evolution
15:30	Coffee Break			

Time	Amphi A	Amphi B	Salle C	Salle D
16:00	Alex HOOFT VAN HUYSDUYNEN (S) - Polygenic selection under intense fishing pressure in Malawi Cichlids	Bert VAN BOCXLAER - Population differentiation and speciation in freshwater molluscs from the East African Rift	Florian LABOUREL - Genetic load and the geometry of adaptation	Hayley B. FREE (S) - Spill the TE: transposable element diversity in the critically endangered mountain chicken frog ( <i>Leptodactylus fallax</i> )
16:15	Angus DAVISON - Evolution and conservation of the world's most beautiful snail, <i>Polymita</i>	Dayna COTTAM (S) - Using phylogenomic data to reassess the species limits of the highly endemic Canarian wall lizard ( <i>Gallotia galloti</i> ).	José COSTA (S) - Genomic Footprints of Pleistocene Hybridization in European Hares	Tin-Yu HUI - Assessing various methods of using population genomic data to measure changes in population size
16:30	Erika PINHEIRO DE CASTRO - Butterfly toxicity and the genetic basis of plasticity-first evolution	Guillaume ACHAZ - Discarding three evolutionary anomalies in the initial SARS-CoV-2 sequence	Henry NORTH - Bidirectional introgression of structural variants between native and invasive species causes pesticide resistance in both	Laura MEYER - The evolutionary trajectory of seahorse inversions is shaped by multiple types of selection
Gala dinner 19:00				



### Poster Session 1: January 7th 6pm

Poster 1: Claire CANTIRAN (S) - Reproductive success in an insect pollinated-plant of patrimonial value: the dune pansy (*Viola tricolor* subsp. *curtisii*)

Poster 3: Charlotte WRIGHT - Rapid chromosome evolution in Polyommata

Poster 5: Pauline PICHON (S) - Genetic architecture of adaptive phenotypic plasticity

Poster 7: Freya WAY (S) - How does inbreeding affect local adaptation in the mountain plant *Arabis alpina*?

Poster 9: Iliia ARTIUSHIN (S) - Structural variation in Malawi cichlids radiation

Poster 11: Thomas LESAFFRE - The evolution of condition-dependent self-fertilisation

Poster 13: Elisa MOGOLLON PEREZ (S) - Evaluating the genetic status of Britain's flies using reference genomes

Poster 15: Francieli DAS CHAGAS - Yellow gene duplications and sociality in bees

Poster 17: Elza GAIGNON (S) - Heterogeneous selection on reproductive traits of *Viola arvensis* along an urban–periurban gradient

Poster 19: Thibault LEROY - 19th century Fox: the genomic epic behind modern garden roses

Poster 21: Pauline RAIMONDEAU - Chromosomal inversions shape local adaptation across monkeyflower range

Poster 23: Swan PORTALIER (S) - Detecting changes in fitness optimum from genetic and phenotypic data

Poster 25: Kyungwoon SUNG (S) - Female-limited polymorphisms evolved through sequential and convergent processes in brood parasitic *Cuculus* cuckoos

Poster 27: Héloïse MULLER - Evolution of structural variants in *C. elegans*

Poster 29: Manwen SU (S) - Evolutionary dynamics of transposable element in bumble bee genomes

Poster 31: Lisa VAN LINDEN (S) - Inbreeding in insular lizards

Poster 33: Silas TANDERUP (S) - Informing rewilding with genomics: choosing horse breeds for sustainable populations

Poster 35: Cara DIXON (S) - Transgenerational Epigenetic Consequences of Pesticide Exposure in the Butterfly, *Vanessa cardui*

Poster 37: Adrian CONTRERAS GARRIDO - The effect of mating systems on *A. lyrata*'s TE populations

Poster 39: Paul ETHEIMER (S) - Insights from and limits of a mosaic molecular clock model of bacterial genomes

Poster 41: Victoria I. AYANSOLA (S) - Tracking zoonotic threats: What metabarcoding tells us about rodent blood microbiomes?

Poster 43: James REEVE - North Sea exclusive structural variant drives population structure in the lesser sandeel (*Ammodytes marinus*)

Poster 45: Zofia STEER (S) - Unravelling the Complexity of Co-infection: Interactions Between Pathogens in *Drosophila melanogaster*

Poster 47: Kseniia MAKSIMOVA (S) - Exploring genetic diversity and key contributors in the global Thoroughbred population to build a reference imputation panel

Poster 49: Eléonore DURAND - Evolution of dominance modifiers over 16 million years

Poster 51: Yuqing PENG (S) - Tracing Positive Selection: A Multi-Dimensional Analysis of Mammalian Genomes

Poster 53: Lilou ZULEWSKI (S) - Genomic prediction of population level categorical traits: application to the host fruit of origin of *Drosophila suzukii* population

### **Poster Session 2: January 8th 5pm**

Poster 2: Julie ROUX (S) - The impact of condition-dependent female preference

Poster 4: Aina COLOMER I VILAPLANA - Evaluating allele frequency trajectory and selection coefficient estimates from genealogies including ancient DNA

Poster 6: Valentina BURSKAIA - Adaptive introgression facilitated explosive speciation of Lake Baikal amphipods

Poster 8: Lucas SORT - Improving mixed model framework for inferring selection with ancient DNA

Poster 10: Alex MC KENNA (S) - Genomic signatures of rapid adaptation after a shift in trait optimum

Poster 12: Emma HINCHCLIFFE (S) - Population structure and genomic divergence within the neotropical clearwing butterfly *Ithomia salapia*

Poster 14: Hugo CORVAL (S) - Developing a T2T, haplotype-resolved genome assembly for the barn owl (*Tyto alba*)

Poster 16: Xuejing HU (S) - Transposable Element diversity in bees

Poster 18: Josh REYNOLDS - Demography and rare variant haplotypes

Poster 20: Sophia GRAY (S) - The Dimensions of Hybrid Genomes: A Simulation Framework for Understanding Hybrid Evolution

Poster 22: Jean WATELET (S) - Evolution of Sex and Self-Incompatibility in the Oleaceae family

Poster 24: Sophie-Asako XERRI - Reconstructing the evolutionary history of world-wide *Arabidopsis thaliana*

Poster 26: Callum THOMAS - A pangenome of the black soldier fly, *Hermetia illucens*

Poster 28: Abigail WILLIAMS (S) - Hybridisation and ghost introgression on in Norfolk Island white-eyes

Poster 30: Ryo SUDA (S) - Diversity and dynamics of self-incompatibility alleles in Japanese *Arabidopsis halleri*

Poster 32: Maya LOUAGE (S) - Multi-locus drug resistance, collateral effects and different treatment strategies

Poster 34: Paul GENNOTTE (S) - Identifying conserved and group specific colour-domains in the avian plumage

Poster 36: Baron KOYLASS (S) - Harnessing Simulations to Identify Balancing Selection in Evolve-and-Resequencing Experiments

Poster 38: Dawid SADKOWSKI (S) - Genomics of the climate change adaptations (in theory)

Poster 40: Qiaz HUA - Using in-depth genomic knowledge to understand and predict responses to climate change in an octopus

Poster 42: Timothee FICHANT (S) - Selfing VS Outcrossing: Evolutionary Consequences in Bryophytes

Poster 44: Jessica YOUNG (S) - The influence of an urban landscape on the dispersal and connectivity of blue tits (*Cyanistes caeruleus*) in a major UK city

Poster 46: Ekaterina NOSKOVA - Uncovering Non-Identifiable Demographic Histories with Generative AI

Poster 48: Adrienne RESSAYRE - Population genetics in the anthropocen?

Poster 50: Tristan CORNELIS (S) - Evolutionary genomics of intra-specific sex-chromosome turnover in the Japanese brown frog

Poster 52: Enolà LE BASLE (S) - Restoring the Glory: The Conservation Genomics of the Kentish Glory Moth

Poster 54: Salomé HENRY (S) - Phylogeographical patterns of population genetic structure in the dwarf palm (*Chamaerops humilis*)