



# List of posters

**Poster 1 (ID 2480)**
**Variation in wild-derived and classical laboratory strains of the house mouse model organism**
*Jaroslav Piálek*

## S01. Tug of war between the sexes: The transcriptomic architecture of sex-linked traits

**Poster 2 (ID 1219)**
**Evolutionary consequences of sex loss on male fitness and sex-biased gene expression in pea aphids**
*Hélène Defendini*
**Poster 3 (ID 1277)**
**Mechanisms driving development of male-larger sexual size dimorphism in a lizard**
*Brandon Meter*
**Poster 4 (ID 1484)**
**Sexual selection in the red seaweed *Gracilaria gracilis***
*Myriam Valero*
**Poster 5 (ID 1795)**
**Brain transcriptome architecture in a species with sex reversal: a three sex chromosome orchestra**
*Louise Heitzmann*
**Poster 6 (ID 1836)**
**The evolutionary potential of brown trout in the context of interacting anthropogenic stressors**
*Hugo Palejowski*
**Poster 7 (ID 2081)**
**Sex-biased genes and their role in speciation in the scarce swallowtails**
*Sam Ebdon*
**Poster 8 (ID 2086)**
**How many alleles and transcripts have sex-specific fitness effects in *Drosophila*?**
*Luke Holman*
**Poster 9 (ID 2090)**
**Modelling *Wolbachia*-induced cytoplasmic incompatibility in oak gallwasps with cyclic parthenogenesis**
*Sonja Grath*
**Poster 10 (ID 2205)**
**A gene copy number arms across a species barrier**
*Miloš Macholán*

## S02. Sex chromosome evolution: the canonical model and so much beyond

**Poster 11 (ID 986)**
**Young X chromosome evolution**
*Andrea Mrnjavac*
**Poster 12 (ID 1070)**
**Neo-sex chromosome evolution in morabine grasshoppers**
*Suvratha Jayaprasad*
**Poster 13 (ID 1286)**
**No evidence for faster evolution on Z chromosome in chameleons of the genus *Furcifer***
*Lucija Andjel*
**Poster 14 (ID 1420)**
**Neo-faster-Z: chromosome fusion facilitates adaptation on a butterfly sex chromosome**
*Andrew Mongue*
**Poster 15 (ID 1471)**
**Dynamics of transposable element accumulation in non-recombining regions**
*Marine Duhamel*
**Poster 16 (ID 1473)**
**Divergent evolution of genetic sex determination mechanisms along environmental gradients**
*Martijn A. Schenkel*
**Poster 17 (ID 1474)**
**Mechanism and drivers of sex chromosome turnover in Atlantic salmon**
*Nicola Barson*
**Poster 18 (ID 1516)**
**Sex chromosome evolution in the plant genus *Mercurialis***
*Jörn Frederik Gerchen*
**Poster 19 (ID 1569)**
**Effect of inversions on suppression of recombination and sex chromosome evolution in fission yeast**
*Cristina Berenguer Millanes*
**Poster 20 (ID 1641)**
**Convergence and divergence in the evolution of stickleback sex chromosomes**
*Daniel Jeffries*
**Poster 21 (ID 1645)**
**Scarlet tide – the first report of sex chromosomes in red algae**
*Agnieszka Lipinska*
**Poster 22 (ID 1693)**
**ZW sex-chromosome evolution and contagious parthenogenesis in *Artemia* brine shrimp**
*Marwan Elkrewi*
**Poster 23 (ID 1731)**
**Convergence evolution of a dosage compensation system**
*Mariela Tenorio*
**Poster 24 (ID 1760)**
**Sex-linked genomic variation among populations of an intertidal snail, *Littorina saxatilis***
*Amin Ghane*
**Poster 25 (ID 1820)**
**Chromosome marker suggests rearrangements in sex chromosomes in Brazilian complex species of frogs**
*Bruno Cansanção Silva*
**Poster 26 (ID 1821)**
**Polymorphism of a satDNA in a zone of secondary contact of lineages with distinct sex chromosomes**
*Lucas Henrique Bonfim Souza*
**Poster 27 (ID 1871)**
**Sex chromosome discovery and dosage compensation mechanism in the Cuban wood snake**
*Amy Wilson*
**Poster 28 (ID 1937)**
**The ant-cricket, a new model of sex chromosome evolution?**
*Vincent Mérel*
**Poster 29 (ID 1955)**
**Variations on a background of conservation of sex chromosomes in lacertids**
*Ana M Gonzalez-Tizon*
**Poster 30 (ID 2033)**
**Investigating the sex locus in the haplodiploid Argentine ant**
*Qiaowei Pan*
**Poster 31 (ID 2176)**
**Cytogenetic analysis of the members of the snake genera *Cylindrophis*, *Eryx* and *Python***
*Tomáš Charvát*
**Poster 32 (ID 2210)**
**A supergene underlies social polymorphism in the desert ant**
*Aparna Lajmi*
**Poster 33 (ID 2215)**
**Identification of ZZ/ZW sex chromosomes in the Madagascan leaf-tail geckos**
*Eleonora Pensabene*
**Poster 34 (ID 2260)**
**Evolution of sex chromosomes in chameleons**
*Sofia Mazzoleni*
**Poster 35 (ID 2276)**
**Discovery and ecological impact of minute sex chromosomes in *Sphagnum* (peat moss)**
*Adam Healey*
**Poster 36 (ID 2283)**
**Neo-sex chromosome evolution in butterflies of the tribe Danaini**
*Pablo Mora Ruiz*
**Poster 37 (ID 2303)**
**Evolution of sex chromosomes in pholcid spiders (Araneae: Pholcidae)**
*Jiří Král*
**Poster 38 (ID 2320)**
**Sex chromosomes expression evolution in *Drosophila* spp. spermatogenesis**
*Camila Avelino*
**Poster 39 (ID 2342)**
**Sex determination in the oribatid mite *Hermannia gibba***
*Svenja Wulsch*
**Poster 40 (ID 2352)**
**The S-locus supergene controlling heterostyly in primroses originated via stepwise duplications**
*Giacomo Potente*
**Poster 41 (ID 2375)**
**Linking gametologue evolution to human sex differences in gene expression and disease**
*Alex DeCasien*

**Poster 42 (ID 2448)**

**De-novo genome assembly of the dwarf willow *Salix herbacea* reveals the sex-linked region**  
*Xiaomeng Mao*

## S03. Diversity and evolution in sperm, ova, and other primary reproductive traits

**Poster 43 (ID 993)**

**Macroclimatic and maternal effects on the evolution of reproductive traits in lizards**  
*Dylan Padilla*

**Poster 44 (ID 1016)**

**Sperm morphology and reproductive success in the hermaphroditic flatworm, *Macrostomum lignano***  
*Santhosh Santhosh*

**Poster 45 (ID 1043)**

**Impact of thermal stress from hot exposure events during heatwaves on reproduction in a model insect**  
*Ramakrishnan Vasudeva*

**Poster 46 (ID 1102)**

**Selection on sperm size in response to promiscuity and variation in female sperm storage organs**  
*Emily Cramer*

**Poster 47 (ID 1249)**

**Comparative proteomics of the perivitelline layer – the site of avian sperm-egg interaction**  
*Emma Whittington*

**Poster 48 (ID 1347)**

**How does social environment affect oviposition decisions?**  
*Emily Churchill*

**Poster 49 (ID 1359)**

**Mitochondrial DNA copy number variation in birds and its relationship to sperm midpiece length**  
*Laima Bagdonaite*

**Poster 50 (ID 1783)**

**How reproductive modes influence the egg size/clutch size trade-offs in salamanders?**  
*Balázs Vági*

**Poster 51 (ID 2056)**

**Effects of egg size and carotenoid content on juvenile growth and survival in brown trout**  
*Jonas Bylemans*

**Poster 52 (ID 2157)**

**Sperm competition in lampreys**  
*Nolwenn Decanter*

**Poster 53 (ID 2194)**

**Influence of storage time on the DNA integrity and viability of spermatozoa of the spider crab**  
*Andres Martinez-Lage*

**Poster 54 (ID 2204)**

**Comparative analysis of heteromorphic sperm in the gastropod genus *Littorina***  
*Luisa Kumpitsch*

**Poster 55 (ID 2390)**

**The gene regulation response to insemination in the reproductive system of the ant**  
*Yue Shi*

## S04. The evolutionary ecology of mating systems

**Poster 56 (ID 1054)**

**Unusually long parental care in Malagasy shorebirds**  
*Claire Tanner*

**Poster 57 (ID 1160)**

**Androgenesis to induce polyploidy and hybridization in the invasive *Corbicula* clam genus**  
*Martin Vastrade*

**Poster 58 (ID 1188)**

**A model of stable trioecy and its transition toward and from dioecy in metapopulations**  
*Mai Thu Nguyen*

**Poster 59 (ID 1320)**

**Selection for male stamina can help explain costly displays with cost-minimizing female choice**  
*Viktor Kovalov*

**Poster 60 (ID 1336)**

**Genetic basis and genomic consequences of loss of distyly in *Linum***  
*Juanita Gutiérrez-Valencia*

**Poster 61 (ID 1356)**

**The genetic basis of asexuality in *Artemia parthenogenetica***  
*Gayathri Venkatraman*

**Poster 62 (ID 1444)**

**Theoretical predictions on the effects of self-fertilisation on speciation**  
*Lucas Marie-Orleach*

**Poster 63 (ID 1469)**

**The complex pathway of sympatric speciation by floral mimicry**  
*Pablo Guerrero*

**Poster 64 (ID 1723)**

**Reducing genetic load via sexual selection: the role of environmental variance in male mating success**  
*Maximilian Tschol*

**Poster 65 (ID 1787)**

**Demographic history and selection in association with mating system variation in *Arabis alpina***  
*Panagiotis-Ioannis Zervakis*

**Poster 66 (ID 1817)**

**Multiple mating rescues offspring sex ratio but not number in a haplodiploid exposed to heat stress**  
*Sofia Costa*

**Poster 67 (ID 1960)**

**Network Theory to elucidate the interplay between sexual selection and metapopulation structure**  
*David Pablo Quevedo Colmena*

**Poster 68 (ID 2164)**

**Unilateral adaptation – how trichomes change pollinators' behavior in sexually deceptive flowers**  
*Noa L. A. Schwabe*

**Poster 69 (ID 2189)**

**The development of a decoy: spatial and temporal map of *Ophrys sphegodes* labellum**  
*Mattia Alessandrini*

**Poster 70 (ID 2256)**

**Male mate choice evolves as a by-product of adaptation to larval crowding in *Drosophila melanogaster***  
*Harisankar Durga*

**Poster 71 (ID 2293)**

**Genetic underpinnings of species-specific sexual signaling mechanisms in parasitoid wasps**  
*Weizhao Sun*

**Poster 72 (ID 2337)**

**The genetic basis of hybrid incompatibilities in the Arctic plant *Cochlearia groenlandica***  
*Marie Kristine Brandrud*

**Poster 73 (ID 2371)**

**Sexual dimorphism in lacrimal and salivary glands of the wild house mice**  
*Barbora Vošlajerová Bímová*

**Poster 74 (ID 2389)**

**The evolution of sex roles: new insights from individual-based simulations**  
*Xiaoyan Long*

**Poster 75 (ID 2415)**

**Evidence of environment – dependent inbreeding depression in a mixed mating plant**  
*Mark Walker*

**Poster 76 (ID 2417)**

**The effect of recombination on the evolutionary dynamics of populations evolving on neutral networks**  
*Alexander Klug*

**Poster 77 (ID 2434)**

**The role of antennation in mating behavior in parasitoid wasp *Aphidius ervi***  
*Murat Bakirdöven*

## S05. A combinatorial view on rapid speciation – the role of ancient genetic variants and hybridisation

**Poster 78 (ID 1310)**

**The impact of hybridization on gene expression in ZW brine shrimp**  
*Clémentine Lasne*

**Poster 79 (ID 1372)**

**Bird-of-paradise hybrids, infertile vagaries or drivers of macro-evolutionary change**  
*Filip Thörn*

**Poster 80 (ID 1402)**

**A wolf in spiders' clothing: genomic-wide screening uncovers admixture between Madeiran wolf spiders**  
*Alba Enguídanos García*

**Poster 81 (ID 1425)**

**The role of ancestral hybridization in clownfish adaptive radiation**  
*Sarah Schmid*

**Poster 82 (ID 1462)**

***Petunia* species in the making: consequences of hybridization between two *P. axillaris* subspecies**  
*Pedro Henrique Pezzi*

**Poster 83 (ID 1485)**

**Hybridization and asexual reproduction in a haploid diploid red alga *Gracilaria gracilis***  
*Christophe Destombe*

**Poster 84 (ID 1552)**

**Eco-evolutionary consequences of costly sexual interactions in hybridizing spider mites**  
*Miguel A. Cruz*

**Poster 85 (ID 1627)**

**Whole genome sequencing unravels the genomic landscape of hybrid speciation in alpine butterflies**  
*Thibaut Capblançq*

**Poster 86 (ID 1776)**

**The genomic basis of hybrid male sterility in *Ficedula* flycatchers**  
*Carolina Segami Marzal*

**Poster 87 (ID 1826)**

**Introgression and incomplete lineage sorting shape the evolution of Eucalypts' rapid radiation**  
*Anne-Cecile Colin*

**Poster 88 (ID 1855)**

**Did ancient hybridization fuel the evolution of pelvic brooding ricefishes?**  
*Jana Flury*

**Poster 89 (ID 1880)**

**Ancient hybridization in *Curcuma* (Zingiberaceae) – fuel or brake of lineage diversification?**  
*Eliska Zaveska*

#### Poster 90 (ID 1900)

**Evidence for ancient and ongoing hybridization in Iberian freshwater fish from whole-genome data**

Sofia L. Mendes

#### Poster 91 (ID 2062)

**Re-emergence of a species after the 2011 Tohoku tsunami-induced hybridization**

Takuya Hoski

#### Poster 92 (ID 2104)

**On the hunt for introgression: charting external gene flow into the Lake Malawi cichlid radiation**

Sophie Gresham

#### Poster 93 (ID 2143)

**Phylonumtomics uncovers hybridisation and unknown genomic variation of mammal and bird species**

Yu-Chi Chen

#### Poster 94 (ID 2369)

**Seasonal dynamics of ancient adaptive genetic variants in a stickleback hybrid zone**

Juan Camilo Cubillos Moreno

## S06. Revisiting chromosomal speciation in the genomic era

#### Poster 95 (ID 1144)

**Chromosomal rearrangements can inhibit speciation by preventing premating isolation**

Thomas Aubier

#### Poster 96 (ID 1210)

**Speciation in a pair of *Brenthis* fritillary butterflies**

Alexander Mackintosh

#### Poster 97 (ID 1355)

**Speciation through chromosomal fusion and fission**

Hannah Augustijnen

#### Poster 98 (ID 1386)

**The complex phylogeographic history and speciation in subterranean blind mole rats (*Nannospalax* sp.)**

Alexey (Oleksiy) Yanchukov

#### Poster 99 (ID 1490)

**Sex-specific ancestral fusion between autosomes and W chromosome in *Heliconius* butterflies**

Nicol Magaly Rueda Munoz

#### Poster 100 (ID 1724)

**Conserved chromosomal structure but divergence in centromeric repeats of two hybridizing species**

Manon Poinet

#### Poster 101 (ID 2005)

**Chromosome divergence and hybrid sterility in budding yeasts**

Jasmine Ono

#### Poster 102 (ID 2425)

**Did circular DNA shape the evolution of mammalian genomes?**

Gerard Arrey

## S07. Chromosome rearrangements in evolution

#### Poster 103 (ID 1172)

**High rate and variability in the spectrum of new structural mutations of *Chlamydomonas reinhardtii***

Eugenio López-Cortegano

#### Poster 104 (ID 1293)

**From SNPs to SVs: exploring the impact of structural variants on timing emergence of *Clunio marinus***

Carolina Peralta

#### Poster 105 (ID 1304)

**tRNA scrabble: extensive gene rearrangements in the mitogenomes of bumblebees (*Bombus*)**

Leonardo Tresoldi Gonçalves

#### Poster 106 (ID 1403)

**The pangenome of the invasive ascidian *Styela plicata*. A world of genomic and structural variants**

Carles Galà-Camps

#### Poster 107 (ID 1617)

**Structural variation at *Linum* distyly supergene – cause or consequence of recombination suppression?**

Marco Fracassetti

#### Poster 108 (ID 1654)

**Strong genomic divergence on new inversions during ecological speciation in *Drosophila***

Erina Ava Ferreira

#### Poster 109 (ID 1915)

**Emergence of a chromosomal duplication and its adaptive role in a cold-adapted bacterium**

Luis Ever Vega-Cabrera

#### Poster 110 (ID 2042)

**Linking structural variation to gene expression in the *Brassicaceae* family**

Raúl Wijffes

#### Poster 111 (ID 2078)

**Structural variation in genomes of two closely related passerine species**

Zuzana Halenková

#### Poster 112 (ID 2091)

**Rapid gene content turnover on the germline-restricted chromosome in songbirds**

Stephen Schlebusch

#### Poster 113 (ID 2116)

**Wrath detects adaptively important structural variants from haplotagging data in a mimetic butterfly**

Anna Orteu

#### Poster 114 (ID 2285)

**Genome rearrangements in the asexual bdelloid rotifer *Adineta vaga* after DNA repair and reproduction**

Antoine Houtain

#### Poster 115 (ID 2305)

**Background selection and mutation accumulation in locally adaptive inversions**

Carl Mackintosh

#### Poster 116 (ID 2372)

**Karyotype evolution in closely related estrildid finches of the genus *Lonchura***

Martina Johnson Pokorná

#### Poster 117 (ID 2442)

**Divergent subgenome evolution in the allotetraploid frog *Xenopus calcaratus***

Martin Knytl

## S08. Integrative biogeography: Past, present, future

#### Poster 118 (ID 1183)

**Population genomics of the allotetraploid African clawed frog *Xenopus laevis* from South Africa.**

Dareen Almojil

#### Poster 119 (ID 1241)

**A novel lineage of *Capra* discovered in the Taurus Mountains of Turkey using ancient DNA**

Kevin Daly

#### Poster 120 (ID 1272)

**Comparative phylogeography of two *Arabidopsis* species in the Carpathians**

Gabriela Šrámková

#### Poster 121 (ID 1321)

**A museomics approach to determine population dynamics in an endemic New Guinean bird family**

Ingo Achim Müller

#### Poster 122 (ID 1528)

**Zones of secondary contact maintained by temporal isolation through allochrony**

Kay Lucek

#### Poster 123 (ID 1557)

**Do the species with large geographic range diversify faster?**

Jan Smyčka

#### Poster 124 (ID 1576)

**The role of Pleistocene climatic oscillations in the formation of the European crow hybrid zone**

Chyi Yin Gwee

#### Poster 125 (ID 1629)

**Evolutionary history of the Atlantic cod (*Gadus morhua*) across space and time**

Lourdes Martínez-García

#### Poster 126 (ID 1664)

**New mitogenomic data for Lagomorpha enhance the understanding of microevolution in the order**

Anwasha Saha

#### Poster 127 (ID 1698)

**Landscape and climatic variations shaped secondary contacts amid barn owls of the Western Palearctic**

Tristan Cumer

#### Poster 128 (ID 1706)

**Diaspore morphospace disparity among Australasian *Atriplex* L. during adaptive radiation**

Dominique Groffman

#### Poster 129 (ID 1745)

**Cliff shells: endemism and radiation in waterfalls of the Western Ghats, India**

Sudeshna Chakraborty

#### Poster 130 (ID 1758)

**Evolutionary history and population dynamics of *Gallus gallus* in Southeast Asia and South Pacific**

Cyrill John Godinez

#### Poster 131 (ID 1841)

**Phylogeographic and evolutionary history analyses of *Sus scrofa* in Southeast Asia**

John King Layos

#### Poster 132 (ID 1847)

**An integrative study of the diversification of dung beetles in the Malay Peninsula and Borneo**

Sean Yap

#### Poster 133 (ID 1894)

**Biogeography can help to resolve the reticulate history of the the genus *Curcuma* (Zingiberaceae)**

Marcos Vinicius Dantas-Queiroz

#### Poster 134 (ID 1905)

**First population genetic study of New Guinean jewel-babblers reveals cryptic diversity**

Saphira Schroers

#### Poster 135 (ID 1957)

**Genomic diversity of the bank vole in Scandinavia: the role of multiple colonizations and refugia**

Silvia Marková

#### Poster 136 (ID 2024)

**Recent biogeography of *Argyrodus lanyuensis* along the Taiwan-Philippine archipelago**

Mae Responte

#### Poster 137 (ID 2025)

**A host-driven genetic divergence within a microgeographic pattern: the case of *Argyrodus bonadea***

Noraya Elias

#### Poster 138 (ID 2071)

**Global phylogeography of a wood decay fungus indicates reinforcement on secondary contact**

Dabao Sun Lu

**Poster 139 (ID 2105)**

**Historical biogeography of a multi-host parasite (Cestoda: *Ligula intestinalis*)**

Masoud Nazarizadeh

**Poster 140 (ID 2120)**

**Herbarium DNA traces *Phytophthora infestans* strain that caused Irish Famine into 20th-century Europe**

Donikë Sejdiu

**Poster 141 (ID 2152)**

**Biogeographic history and patterns of gene flow within the Natterer's bats in the Caucasus**

Vanuhi Hambarzumyan

**Poster 142 (ID 2195)**

**Gene flow in a secondary contact zone of two bat species within the *Myotis nattereri* species complex**

Darija Josić

**Poster 143 (ID 2200)**

**Demographic inference of multiple population pairs across the European ranges of two species**

Beatriz Portinha

**Poster 144 (ID 2241)**

**Genomic assessment of Scots Pine expansion in Europe**

Chedly Kastally

**Poster 145 (ID 2271)**

**Characterization of molecular diversity of spring fen zoobenthos from two geomorphological regions**

Magdalena Gajdošová

**Poster 146 (ID 2374)**

**Asymmetric lability in habitat shifts underlies the evolution of savanna Miombo trees in Africa**

Dario Ojeda Alayon

**Poster 147 (ID 2380)**

**Targeted metabarcoding reveals new diversity in marine Myxozoa**

Inga Martinek

**Poster 148 (ID 2397)**

**The biogeographic history of the Ethiopian highland *Ptychadena***

Mariana Lyra

**Poster 149 (ID 2427)**

**Biogeographic affinities of terrestrial invertebrates among Juan Fernández and Desventuradas Islands**

Darko Cotoras

## S09. Parallel and repeated evolution in adaptive radiation

**Poster 150 (ID 1133)**

**How is evolvability affected by niche shifts?**

Kalle Nilsson

**Poster 151 (ID 1197)**

**Seasonal environments drive convergence in life-history traits across butterfly adaptive radiations**

Sridhar Halali

**Poster 152 (ID 1546)**

**Multiple independent transitions to cave life and molecular diversity in olms (*Proteus anguinus*)**

Hans Recknagel

**Poster 153 (ID 1559)**

**Diversification of a group of songbirds with pervasive phenotypic parallelism**

Niloofar Alaei Kakhki

**Poster 154 (ID 1600)**

**Arctic charr in Thingvallatn: a miniature natural laboratory to study repeated evolution**

Marina de la Cámara

**Poster 155 (ID 1639)**

**Probabilistic modeling of bursts and gradual changes of diversification rates in bird evolution**

Viktor Senderov

**Poster 156 (ID 1863)**

**Determinism and contingency in the genetic basis of parallel armor plate evolution of sticklebacks**

Yo Yamasaki

**Poster 157 (ID 1876)**

**Cave dwelling *Physella* sp. as a model system for studying the loss of pigmentation**

Magdalena Grgić

**Poster 158 (ID 1909)**

**Flying, mating and escaping: diversification of wing shape in *Papilionidae* butterflies**

Ariane Chotard

**Poster 159 (ID 2136)**

**Convergence for high trophic position drives functional disparity in crustacean radiation**

Cene Fišer

**Poster 160 (ID 2161)**

**The genetic bases of adaptive radiation in *Ophrys* orchids**

Alessia Russo

**Poster 161 (ID 2171)**

**Unravelling the hidden genetics of wrinkly spreaders**

Gisela Tatianna Rodriguez

**Poster 162 (ID 2193)**

**The predictable sequence of adaptive radiation in subterranean amphipods**

Špela Borko

**Poster 163 (ID 2392)**

**What underlies gene reuse in adaptation?**

Alžběta Poštulková

**Poster 164 (ID 2402)**

**Repeated evolved dwarfism in Arctic charr: patterns of shared and distinct differentiation**

Han Xiao

## S10. Eco-evolutionary dynamics in changing environments: insights from models, experiments and case studies

**Poster 165 (ID 1055)**

**Individual variation in a parasite-host system: performance, heritability, and host quality**

Gerardo Fracasso

**Poster 166 (ID 1158)**

**Habitat connectivity prevents population structure in a commercially important fish (*Lutjanus jocu*)**

Julia T. Verba

**Poster 167 (ID 1291)**

**Phenotypic robustness differs between queen and worker caste**

Esther van den Bos

**Poster 168 (ID 1340)**

**The role of niche construction for the adaptability of the red flour beetle, *Tribolium castaneum***

Lai Ka Lo

**Poster 169 (ID 1385)**

**Do ectotherms adjust their thermal preferences in an urban heat island context?**

Valentin Cabon

**Poster 170 (ID 1483)**

**Eco-evolutionary dynamics of host-parasite systems in complex landscapes**

Jhelam N. Deshpande

**Poster 171 (ID 1487)**

**Learning to cope: the effect of population bottlenecks in the maintenance of complex adaptations**

Sergio Gonzalez

**Poster 172 (ID 1500)**

**The effects of temporal heterogeneity in genetic covariance**

Isa do O

**Poster 173 (ID 1540)**

**Lead induces sex and development related differential *Mtn* gene expression in two *Drosophila* species**

Mina Rakic

**Poster 174 (ID 1604)**

**The metabolic switch? Linking individual physiology and life-history in the Glanville fritillary**

Carly Lynsdale

**Poster 175 (ID 1674)**

**Context-dependent tradeoffs and population dynamics across life histories**

Louis Bliard

**Poster 176 (ID 1735)**

**Fitness consequences of heatwaves in *Drosophila melanogaster***

Abhishek Meena

**Poster 177 (ID 1827)**

**Realized niche breadth evolution driven by reproductive interference and resource competition**

Daisuke Kyogoku

**Poster 178 (ID 1932)**

**Phenotypic response of flowering plant to limited access to natural pollinator community**

Elisabeth Authier

**Poster 179 (ID 2006)**

**Rapid seasonal thermal adaptation in *Chironomus riparius***

Quentin Foucault

**Poster 180 (ID 2022)**

**Allochrony in the Moorish gecko as a behavioral syndrome: an ecological and genetic study**

Adriana Bellati

**Poster 181 (ID 2068)**

**Genomic insights into the muskox' history of surviving against all odds**

Patricia Chrzanová Pečnerová

**Poster 182 (ID 2198)**

**Effect of host plant species and insecticides on the evolution of genetic diversity of a crop pest**

Benoit Barrès

**Poster 183 (ID 2218)**

**Predicting the genetic signatures of dry-season aestivation of malaria-transmitting mosquitoes**

Tin-Yu Hui

**Poster 184 (ID 2242)**

**Limits to adaptation and fragmentation of a species' range**

Jitka Polechova

**Poster 185 (ID 2248)**

**Demography modeling: understanding the ABC of *Ophrys* orchids radiation**

Sara Edith Garcia Morales

**Poster 186 (ID 2398)**

**Understanding plant evolution mediated by interactions with pollinators and herbivores**

Sergio Ramos

**Poster 187 (ID 2405)**

**Eco-evolutionary dynamics in an insect community**

Laura Zamorano

**Poster 188 (ID 2433)**

**Coalescent effective population size: between the stepping stone and the island model**

Pia Gober

## S11. Adaptation and evolution across environmental gradients

Poster 189 (ID 1005)

**Non-optimal phenotypic plasticity evolves under assortative mating: new theoretical predictions**

*Ophélie Ronce*

Poster 190 (ID 1045)

**Dispersal plasticity driven by variation in fitness across species and environmental gradients**

*Julie Campana*

Poster 191 (ID 1072)

**Parallel genomic architecture of adaptation in *Littorina saxatilis* along shore levels**

*Ana-Maria Peris Tamayo*

Poster 192 (ID 1116)

**Effect of heat and drought at southern range limits on plant performance**

*Judith Schepers*

Poster 193 (ID 1119)

**Evolutionary constraints at low-latitude range edges under climate change**

*Jessica Heblack*

Poster 194 (ID 1154)

**Limited dispersal and spatially varying selection among European populations of sea lamprey**

*Miguel Baltazar-Soares*

Poster 195 (ID 1255)

**G x G interactions between algal and zooplankton clones isolated during the spring season**

*Domiziana Cristini*

Poster 196 (ID 1452)

**The forces maintaining a balanced inversion polymorphism**

*Esra Durmaz Mitchell*

Poster 197 (ID 1532)

**Effects of temperature and an invasive predator on genetic and phenotypic variation in damselflies**

*Guillaume Vos*

Poster 198 (ID 1653)

**Investigating local adaptation of wild olive tree to climate change across a north-south gradient**

*Lison Zunino*

Poster 199 (ID 1730)

**Adaptation to climatic variation in the native and introduced ranges of a cosmopolitan plant**

*Lucas Albano*

Poster 200 (ID 1750)

**The power of museomics to dissect the genetic basis of winter coat colour polymorphism in stoats**

*Marcela Alvarenga*

Poster 201 (ID 1762)

**The genetics of plant-plant interactions in *Arabidopsis thaliana***

*Germain Montazeaud*

Poster 202 (ID 1792)

**Nutrient limitation influences moss-associated nitrogen fixation across a subarctic gradient**

*Lina Avila Clasen*

Poster 203 (ID 1797)

**Postglacial history and local adaptation of the wood decay species *Trichaptum abietinum* in Europe**

*Ine-Susanne Methlie*

Poster 204 (ID 1846)

**A mostly-microendemic assemblage of tiny microhylid frogs on a mountain in northern Madagascar**

*Nicholas Joris Fleck*

Poster 205 (ID 1864)

**Genomic basis of local adaptation in the European barn owl (*Tyto alba*)**

*Hugo Corval*

Poster 206 (ID 1912)

**Intensity of pathogen-imposed selection for disease resistance varies along an elevation gradient**

*Michael Rechsteiner*

Poster 207 (ID 1998)

**The genomic basis of temperature adaption of *Littorina saxatilis* across small scales**

*Bingqian Han*

Poster 208 (ID 2037)

**The story of *Proasellus* (Isopoda, Crustacea) – cave colonization ensured by the plastic response?**

*Jana Bedek*

Poster 209 (ID 2044)

**Transposable elements and environmental niches interaction in the Cape Floristic Region**

*Zuzana Chumová*

Poster 210 (ID 2121)

**Environmental effects on the genetic architecture of fitness components in an hermaphrodite**

*Elodie Chapuis*

Poster 211 (ID 2196)

**Genetics of adaptation to local climate**

*Anna Shoshan*

Poster 212 (ID 2216)

**Testing for the mechanisms of balancing selection maintaining 6Pgdh polymorphism in the bulb mite**

*Pranav Unnikrishnan*

Poster 213 (ID 2263)

**Parallel subfunctionalisation of isoforms of photosystem II subunit PsbO in plants**

*Miloš Duchoslav*

Poster 214 (ID 2289)

**Genomic patterns of differentiation and signals of selection along multiple hybrid zone transects**

*Arka Pal*

Poster 215 (ID 2309)

**Evolution of thermal mismatch between host and parasite in a temperature gradient experiment**

*Oliver Kaltz*

Poster 216 (ID 2310)

**Modelling reaction norms with few assumptions**

*Mário Santos Mira*

Poster 217 (ID 2420)

**Climate-driven natural selection across protein-coding and cis-regulatory genetic variation**

*Shannon Hateley*

## S12. Resurrection ecology as a tool for the study of rapid evolution

Poster 218 (ID 1165)

**Trait and fitness variation in a resurrected phytoplankton population from two periods**

*Richard Lambrecht*

Poster 219 (ID 1480)

**Back to the past: rapid adaptation in *Viola arvensis* using resurrection ecology**

*Samson Acoca-Pidolle*

Poster 220 (ID 1481)

**Thermal plasticity of resurrected and contemporary populations of *Hypericum perforatum***

*Martti J. Levo*

## S13. Evolutionary ecology of chemically-mediated species interactions in plants

Poster 221 (ID 1041)

**How did the preemptive counter-defense become superior? A modelling study**

*Suman Chakraborty*

Poster 222 (ID 1097)

**Correlations between attraction and defence plant chemistry – what is the true target of selection**

*Hanna Thosteman*

Poster 223 (ID 1270)

**Flower size, not floral scent, may function as an honest signal in a generalist-pollinated perennial**

*Katherine Eisen*

Poster 224 (ID 1644)

**Temperature-induced plasticity and reciprocal selection in a plant-pollinator-herbivore system**

*Quint Rusman*

Poster 225 (ID 1670)

**Floral volatile variation in an Andean orchid pollinated by euglossine bees across landscape**

*Yasmin Alomia*

Poster 226 (ID 1734)

**How does metal hyperaccumulation protect *Noccaea caerulea* from the herbivore *Pieris brassicae*?**

*Alexandra Schwaiger*

Poster 227 (ID 1748)

**Patterns of variation in a novel defence reveal evolutionary drivers of chemical diversification**

*Tobias Züst*

Poster 228 (ID 1939)

**Evolution of chemical defenses in Salicaceae and the plant-herbivore arms race**

*Ezgi Ogutcen*

Poster 229 (ID 2079)

**Floral scent variation partly explains visitor variation within populations of *Arum maculatum***

*Danae Laina*

Poster 230 (ID 2127)

**Autopolyploidy and pollination divergence in *Dianthus broteri*: a transcriptomic approach**

*Jesus Picazo-Aragones*

## S14. Ecological drivers and evolutionary consequences of within-population colour variation

Poster 231 (ID 1317)

**The role of opsins in search image tuning in the damselfly *Ischnura elegans***

*Natalie Roberts*

Poster 232 (ID 1367)

**Mimicry promotes morphological diversification but not speciation in mimetic swallowtail butterflies**

*Athulya Kizhakke*

Poster 233 (ID 1575)

**All that glitters is not iridescence—devising a measure of iridescence that links color to optics**

*Klara Nordén*

Poster 234 (ID 1582)

**Integration of signaling traits during social interaction in a colour changing lizard**

*Subhasmita Patro*

Poster 235 (ID 1712)

**Coexistence of male colour morphs in an African annual fish**

*Martin Reichard*

**Poster 236 (ID 1889)**

**Look under the leaf: effect of artificial light at night on duckweed colour**

*Totoro Nakagawa-Lagisz*

**Poster 237 (ID 1968)**

**Huge flower color polymorphism in *Iris pumila* L.: previous studies and current research**

*Nataša Barišić Klisarić*

**Poster 238 (ID 1992)**

**Becoming pale in the city: a strategy of the European garden spider to adapt to city life?**

*Katrien De Wolf*

**Poster 239 (ID 2146)**

**Cryptic ultraviolet color variation in the polymorphic common wall lizard**

*Prem Aguilar*

**Poster 240 (ID 2187)**

**Piecing together the *Heliconius* wing pattern: Identification of colour elements used in mate choice**

*Sophie Helen Smith*

**Poster 241 (ID 2220)**

**SPIN\*-CITY: the role of spider colour in adapting to urban heat islands.**

*Bram Vanthournout*

**Poster 242 (ID 2224)**

**Consequences of mobbing and predation on camouflage abilities and use of space in tawny owls**

*Charlotte Perrault*

**Poster 243 (ID 2229)**

**Genetic control of colour in the tropical seastar *Linckia laevigata***

*Suzanne Williams*

**Poster 244 (ID 2307)**

**Is shell colour polymorphism in *Littorina* associated with chromosomal inversions?**

*Rui Faria*

**Poster 245 (ID 2355)**

**Relationship between seed dispersal and flower color variation in *Anemone coronaria***

*Sissi Lozada Gobillard*

**Poster 246 (ID 2362)**

**Dissecting proximate causes of variation in melanin-based colouration in the house sparrow**

*Szymon Drobnik*

## S15. Rapid evolution of color patterns

**Poster 247 (ID 1124)**

**Evolution and development of wing colour patterns in ithomiine butterflies**

*Eva van der Heijden*

**Poster 248 (ID 1544)**

**Plumage coloration misrepresents relationships in a recent avian radiation**

*Lois Rancilhac*

**Poster 249 (ID 1705)**

**Genomic analysis of host association and coloration in clownfishes**

*Lucy Fitzgerald*

**Poster 250 (ID 1710)**

**Clownfish's host-phenotype trait complex is a product of convergent evolution.**

*Alberto Garcia Jimenez*

**Poster 251 (ID 2123)**

**Convergent loss of ommochrome pigmentation in cave-adapted isopod crustaceans**

*Lada Jovović*

**Poster 252 (ID 2129)**

**Understanding wing patterns in Central Asian Hawkmoths**

*Franziska Patzold*

**Poster 253 (ID 2133)**

**Constrained evolution of dorsal plumage color contrasts with flexible evolution of ventral feathers**

*Nicholas Friedman*

**Poster 254 (ID 2149)**

***Hyles* (Lepidoptera: Sphingidae) karyotype and high quality genomes as basis for wing pattern studies**

*Anna Hundsörfer*

**Poster 255 (ID 2382)**

**Phylogeny drives color pattern resemblance in Müllerian mimics**

*Yann Le Poul*

## S16. Predator cognition and the evolution of prey defence strategies

**Poster 256 (ID 1001)**

**Chemical defense acquired via pharmacophagy can lead to herd protection in a sawfly**

*Pragya Singh*

**Poster 257 (ID 1132)**

**Recognition of predator calls is socially transmitted across territory borders in wild birds**

*Jakub Szymkowiak*

**Poster 258 (ID 1306)**

**Quantification of mimicry resemblance in butterflies using feature extractor of deep neural network.**

*Kai Amino*

**Poster 259 (ID 1507)**

**Evolution of antipredator response in a complex life cycle**

*Kanika Rawat*

**Poster 260 (ID 1522)**

**Shimmering response in *Apis dorsata* are triggered by dark stimuli moving against a bright background**

*Sajesh Vijayan*

**Poster 261 (ID 1563)**

**Variability of a cooperative defense behavior in social pine sawflies**

*Raphael Ritter*

**Poster 262 (ID 1683)**

**Innate reactions of birds to mimetic hoverflies and their hymenopteran models**

*Marie Truhlářová*

**Poster 263 (ID 1692)**

**Snakes as mediaeval knights in ring armour: Antipredatory strategy in sand boas (Erycidae)**

*Petra Frýdlová*

**Poster 264 (ID 1715)**

**Weapons or deterrents? Exploring the mode of nudibranch chemical defence against predators**

*Anne Winters*

**Poster 265 (ID 1747)**

**Birds select for higher mimetic accuracy in ant-mimicking spiders and true bugs**

*Alice Exnerova*

**Poster 266 (ID 1805)**

**I remember you! Multicomponent warning signals and predator memory**

*Anita Szabó*

**Poster 267 (ID 2059)**

**Are ladybird spiders (*Eresus* spp.) Batesian mimics of aposematic insects?**

*Jan Raška*

**Poster 268 (ID 2364)**

**Do spiders ride on the fear of scorpions? A cross-cultural eye tracking study**

*Iveta Stolhoferová*

**Poster 269 (ID 2381)**

**Fear of snakes in the cradle of human kind**

*Daniel Frynta*

**Poster 270 (ID 2472)**

**Predator response to two components of the putative deimatic display of the Colombian four-eyed frog**

*Bibiana Rojas*

## S17. Brain, behaviour and cognitive evolution

**Poster 271 (ID 1368)**

**Sensory, neural, and life history predictors of anti-parasitic egg rejection as a cognitive trait**

*Mark Hauber*

**Poster 272 (ID 1391)**

**Cognition in the wild: Ecology dictates the value of memory for foraging bees**

*Cecylia Watrobska*

**Poster 273 (ID 1453)**

**Chromosomal rearrangements are responsible for altered neuroinflammatory regulation in parrots**

*Daniel Divín*

**Poster 274 (ID 1461)**

**Reconstructing the ancestral vertebrate brain using a lamprey neural cell type atlas**

*Francisca Hervas-Sotomayor*

**Poster 275 (ID 1714)**

**The genetic basis of personality in long-tailed macaques**

*Debottam Bhattacharjee*

**Poster 276 (ID 2395)**

**Within and between species variation in cognitive and behavioural determinants of innovativeness**

*Utku Urhan*

**Poster 277 (ID 2432)**

**Faster transport through slower runs: ant relocation dynamics in nature**

*Anoop Karunakaran*

## S18. The evolution of behavioural adaptations: Genes, neurons and ecology

**Poster 278 (ID 978)**

**The effects of neurogenetic architecture and signal information on behavioral evolution**

*Thomas Blankers*

**Poster 279 (ID 1040)**

**A multi-dimensional quantitative approach to study the evolution of social complexity**

*Ohad Peled*

**Poster 280 (ID 1103)**

**The ecology of UV-vision in female *Heliconius erato* & *H. himera***

*Jose Borrero Malo*

**Poster 281 (ID 1126)**

**Modelling the evolution of learning**

*Magdalena Kozielska*

**Poster 282 (ID 1146)**

**Is bat predation risk driving the evolution of multimodal duetting in katydids?**

*Kasturi Saha*

**Poster 283 (ID 1250)**

**The gut microbiota affects the social network of honeybees**

*Joanito Liberti*

**Poster 284 (ID 1366)**

**Social parasitism leads to transcriptomic shifts in the nervous system of captured ant workers**

*Erwann Collin*

#### Poster 285 (ID 1585)

**Interaction between territoriality and traits of males in Neotropical Poison Frogs**

*Mileidy Betancourth-Cundar*

#### Poster 286 (ID 1593)

**Single cell sequencing of a parental brain**

*Chris Cunningham*

#### Poster 287 (ID 1755)

**To call or not to call: persistence of flexible alternative reproductive tactics in a tree cricket**

*Mohammed Aamir Sadiq*

#### Poster 288 (ID 1809)

**Assortative mate preferences in *Heliconius* and the role of genes, brains and environment**

*Lucie Queste*

#### Poster 289 (ID 1814)

**Origin of a new olfactory sensory neuron population**

*Gwenaëlle Bontonou*

#### Poster 290 (ID 1823)

**Using juvenile songbirds to study the genetic basis of the migratory syndrome**

*Hannah Justen*

#### Poster 291 (ID 1881)

**Antimicrobial activity of the mud used to build the nests in birds**

*Magdalena Ruiz-Rodríguez*

#### Poster 292 (ID 1961)

**Evolutionary dynamics of olfactory receptor genes in ray-finned fish**

*Demian Burguera*

#### Poster 293 (ID 2027)

**Inclusive fitness and the evolution of nuptial gifts**

*Goncalo Faria*

#### Poster 294 (ID 2035)

**Molecular basis of the social control of reproduction and behavior in ants**

*Martin Coulm*

#### Poster 295 (ID 2075)

**Evolution of gene expression in the chemosensory tissues of ecologically diverse fly species**

*Bastien Saint-Leandre*

#### Poster 296 (ID 2082)

**Evolutionary genetics of visual adaptation in *Heliconius* butterflies**

*Juliana Rodriguez-Fuentes*

#### Poster 297 (ID 2168)

**Mitochondrial interactions modulate nutritional preference**

*Florencia Camus*

#### Poster 298 (ID 2233)

**Does trophic environment affect behavior and gene expression in the facultative parasitic blowfly?**

*Vanessa Cunha*

#### Poster 299 (ID 2359)

**Parental care and paradox decisions: does relatedness play a role in nursery choice?**

*Carolin Dittrich*

## S19. Eco-evolutionary dynamics and feedbacks in invasive species

#### Poster 300 (ID 1673)

**Evolution of Na<sup>+</sup>/K<sup>+</sup>-ATPase, a candidate gene under selection during invasions in a common copepod**

*Jacob Fredette-Roman*

#### Poster 301 (ID 1791)

**Molecular analysis of lately introduced populations of lizard supports invasiveness at species level**

*Oleksandra Oskyrko*

#### Poster 302 (ID 1801)

**Using invasions to understand adaptation: genomic reconstruction of the house sparrow global spread**

*Jack Harper*

#### Poster 303 (ID 1887)

**Multi-year monitoring of *Asclepias syriaca* spread in protected reserve of Deliblato Sand in Serbia**

*Stevan Avramov*

#### Poster 304 (ID 1958)

**Cuticular hydrocarbon diversification drives aggression in the invasive ant *Cardiocondyla obscurior***

*Maja Drakula*

#### Poster 305 (ID 2151)

**Spider mites do not modify their interaction with plant defences when evolving with a competitor**

*Mariya Kozak*

#### Poster 306 (ID 2207)

**Conservation genomics in Italian pike: contrasting hybridization with non-native European pike**

*Barbara Sofia Ilardo*

#### Poster 307 (ID 2245)

**Inheritance mechanisms in knotweeds – are they driven by population genetics or the environment?**

*Kateřina Berchová Bímová*

#### Poster 308 (ID 2319)

**The hidden signature of biological invasions with hybridization**

*Claudio Quilodran*

## S20. Unravelling the interplay between plasticity and evolution during rapid global change

#### Poster 309 (ID 1010)

**Weak thermal limit plasticity exposes insects to extreme temperature events**

*Hester Weaving*

#### Poster 310 (ID 1021)

**Developmental plasticity in heat tolerance: ontogenetic variation, persistence and future directions**

*Patrice Pottier*

#### Poster 311 (ID 1080)

**Individual reversible plasticity as a genotype-level bet-hedging strategy**

*Thomas Ray Haaland*

#### Poster 312 (ID 1109)

**Evolutionary demise of a social interaction: partners differ in the rate of interacting trait loss**

*Eleanor Bladon*

#### Poster 313 (ID 1190)

**In a changing world, farmed-wild hybridisation alters a key life-history trait in Atlantic salmon**

*Joshka Kaufmann*

#### Poster 314 (ID 1290)

**How is phenological plasticity constrained by habitat artificialization? Empirical evidence in tits**

*Paul Cuchot*

#### Poster 315 (ID 1382)

**Maladaptive reproductive responses to developmental temperature in the European corn borer moth**

*Genevieve Kozak*

#### Poster 316 (ID 1405)

**Phenotypic plasticity enhances adaptation potential to fluctuating warm environments**

*Berta Canal*

#### Poster 317 (ID 1503)

**Poison frog social behaviour under global change: potential impacts and future challenges**

*Lia Schlippe Justicia*

#### Poster 318 (ID 1568)

**Heat-induced plant plasticity influences herbivore and pollinator preferences and plant reproduction**

*Juan Traine*

#### Poster 319 (ID 1778)

**Fish plastic and evolutionary metabolic response to freshwater hypoxia**

*Amélie Crespel*

#### Poster 320 (ID 1800)

**Fluctuating heat stress during development exposes reproductive costs and putative benefits**

*Leonor Rodrigues*

#### Poster 321 (ID 1845)

**Plasticity in a multivariate world: impact of density on phenological plasticity in Great Tits**

*Vaishnavi Purushotham*

#### Poster 322 (ID 2141)

**Can parasites adapt to elevated temperature? Experimental evolution and a survey of heated lakes**

*Justyna Wolinska*

#### Poster 323 (ID 2203)

**Male indirect genetic effects on lay date: the role of social plasticity in evolutionary rescue**

*Myranda Murray*

#### Poster 324 (ID 2238)

**A tit's quick wit: examining cognitive differences between urban and forest birds**

*Dhanya Bharath*

#### Poster 325 (ID 2407)

**Cold shock resistance in early developmental stages of *Drosophila melanogaster***

*Ruchika Choudhary*

#### Poster 326 (ID 2454)

**Animal migration to higher latitudes: environmental changes and increasing threats**

*Vojtěch Kubelka*

## S21. Epigenetics goes wild! Epigenetic diversity and the evolutionary potential of wild populations.

#### Poster 327 (ID 1046)

**Spontaneous epigenetic changes and natural epigenetic variation in a filamentous fungus**

*Ilkka Kronholm*

#### Poster 328 (ID 1069)

**Parasite infection mediates intergenerational DNA methylation in the three-spined stickleback**

*Alice Balard*

#### Poster 329 (ID 1131)

**Epigenetic and gene expression differences are associated with reproductive success in aphid morphs**

*Zhe Yang Yim*

#### Poster 330 (ID 1135)

**Assimilation of an acquired character by plasticity guided genetic and epigenetic inheritance**

*Gonzalo Sabarís*

#### Poster 331 (ID 1148)

**The role of DNA methylation in transgenerational adaptation of (a)sexual offspring of *Fragaria vesca***

*Vít Latzel*

**Poster 332 (ID 1191)**

**Epigenetic markers of chronological age and survival in a wild passerine**

*Thomas Brown*

**Poster 333 (ID 1390)**

**Differential methylation, epigenetic clocks, and island-mainland divergence in a small mammal**

*Marie-Laurence Cossette*

**Poster 334 (ID 2162)**

**The role for epigenetics in the evolution of plasticity of avian phenotypic traits**

*Kees van Oers*

**Poster 335 (ID 2197)**

**Adaptive potential of epigenetic switching during adaptation to fluctuating environments**

*Dragan Stajic*

**Poster 336 (ID 2221)**

**Do chromatin-TE interactions contribute towards transgenerational plasticity in wild fruit flies?**

*Ewan Harney*

**Poster 337 (ID 2223)**

**Genotyping of the seagrass *cymodocea nodosa* identifies candidate genes for environmental adaptation**

*Emanuela Dattolo*

**Poster 338 (ID 2326)**

**The role of DNA methylation in gene expression and phenotypic plasticity in a social spider**

*Anne Aagaard*

**Poster 339 (ID 2338)**

**DNA methylation in wild barn swallow populations: effects of age and genetic variation**

*Sarah Mueller*

## S22. Phenotypic plasticity's importance in evolution: Same old dog or new tricks?

**Poster 340 (ID 1122)**

**Non-heritable mutations as a source of foresight for adaptive phenotypes**

*Paco Majic*

**Poster 341 (ID 1203)**

**Individual variation in social plasticity affects predictions of evolutionary change**

*Tom Ratz*

**Poster 342 (ID 1318)**

**Multifaceted insect cuticle: different stages-different patterns**

*Harshad Mayekar*

**Poster 343 (ID 1331)**

**Plant phenotypic plasticity affects pollinator-mediated selectio**

*Thomas Dorey*

**Poster 344 (ID 1515)**

**Gene expression plasticity role in adaptation : confrontation of empirical and simulation data**

*Apolline Petit*

**Poster 345 (ID 1558)**

**Evolution of robustness and plasticity in gene regulatory networks**

*Arnaud Le Rouzic*

**Poster 346 (ID 1596)**

**Maternally-transferred thyroid hormones in birds are evolutionary constrained**

*Bin-Yan Hsu*

**Poster 347 (ID 1837)**

**Does the definition of a novel environment affect the ability to detect cryptic genetic variation?**

*Camille Riley*

**Poster 348 (ID 1914)**

**Phenotypic plasticity of *Iris pumila* leaf functional traits in response to experimental warming**

*Katarina Hočevár*

**Poster 349 (ID 1929)**

**The role of juvenile hormone in developmental polyphenism of an ant with obligately sterile workers**

*Jeanne Brühlhart*

**Poster 350 (ID 1938)**

**Trait-dependent mechanisms influence lifespan and behavioural plasticity in *Drosophila melanogaster***

*Claire Smithson*

**Poster 351 (ID 1973)**

**The mutational origins of phenotypic plasticity**

*Jeff Dudycha*

**Poster 352 (ID 2039)**

**The role of the gut microbiome in *Drosophila* socially-driven plasticity**

*Megan Fairweather*

**Poster 353 (ID 2244)**

**From environmental to genetic control – and back? Transitions in sex determination in amniotes**

*Barbora Straková*

**Poster 354 (ID 2297)**

**Phenotypic plasticity is decoupled from genomic specialization in domesticated fungi**

*Ricardo Rodríguez de la Vega*

## S23. The evolution and consequences of non-mendelian inheritance

**Poster 355 (ID 1044)**

**Rapid evolution of *cid* variants shift *Wolbachia*-induced cytoplasmic incompatibility patterns**

*Alice Namias*

**Poster 356 (ID 1076)**

**Genome-wide characterization of genetic variation for pollen expression in *Rumex hastatulus***

*Meng Yuan*

**Poster 357 (ID 1180)**

**Transcriptional patterns on the germ-line-restricted chromosome in blue tits**

*Jakob Mueller*

**Poster 358 (ID 1388)**

**Potential for recent selfish spread of the germline-restricted chromosome in zebra finches**

*Augustin Chen*

**Poster 359 (ID 1429)**

**Gross physical damage to testes is associated with the suppression of sperm-killing meiotic drive**

*Sophie Lyth*

**Poster 360 (ID 1430)**

**Evolution of alternative reproductive systems in *Bacillus* stick insects**

*Alexander Brandt*

**Poster 361 (ID 1513)**

**Sperm, what are they good for? -- Reproductive anomalies in the flea beetle *Altica lythri***

*Alina Sanken*

**Poster 362 (ID 1570)**

**Meiotic drive causes adaptive testis enlargement during early development in the stalk-eyed fly**

*Sasha Bradshaw*

**Poster 363 (ID 1743)**

**Meiotic drive and sperm competition: can sperm loss be mitigated?**

*Sadé Bates*

**Poster 364 (ID 1774)**

**Extremely rapid genetic content evolution on the germline-restricted chromosome in passerine birds**

*Radka Reifová*

**Poster 365 (ID 1878)**

**Genome fractionation in asexuals: mechanisms, consequences for selection and link to gene function**

*Karel Janko*

**Poster 366 (ID 2099)**

**Premeiotic genome endoreplication is an unexpectedly rare phenomenon in gynogenetic hybrid fishes**

*Dmitrij Dedukh*

**Poster 367 (ID 2140)**

**Repetitive DNA dynamics in asexually reproducing killifishes**

*Anne-Marie Dion-Côté*

**Poster 368 (ID 2291)**

**Cytological map of the zebra finch GRC at the lampbrush stage**

*Svetlana Galkina*

**Poster 369 (ID 2304)**

**GRC behavior during meiosis and embryogenesis in songbirds**

*Lyubov Malinovskaya*

**Poster 370 (ID 2330)**

**Evolutionary innovation in the long-term absence of sex in the oribatid mite *Platynothrus peltifer***

*Shan Gao*

**Poster 371 (ID 2361)**

**Non-genetic inheritance: is it time for the genotype-phenotype framework to evolve?**

*Ignacio Maeso*

**Poster 372 (ID 2421)**

**Integration of endogenous circular DNAs is a frequent source of chromosomal structural variation**

*Gerard Arrey*

**Poster 373 (ID 2424)**

**Searching for toxin-antidote elements in an ant social supergene**

*Luca Soldini*

## S24. Progress and prospects in adaptation genomics

**Poster 374 (ID 994)**

**A two-step adaptive walk rewires nutrient transport in a challenging edaphic environment**

*Emmanuel Tergemina*

**Poster 375 (ID 1201)**

**Dissecting the molecular mechanisms of adaptive life history variation in Atlantic salmon**

*Jukka-Pekka Verta*

**Poster 376 (ID 1226)**

**Untangling the role of sexual selection on genomic divergence**

*Stewart Leigh*

**Poster 377 (ID 1230)**

**The dynamics of adaptation to stress from standing genetic variation and *de novo* mutations**

*S. Lorena Ament-Velásquez*

**Poster 378 (ID 1231)**

**Genetic responses of local populations in response to the establishment of novel invasive species**

*Heidi Viitaniemi*

**Poster 379 (ID 1289)**

**Estimating the distribution of fitness effects from single spontaneous mutations in *Escherichia coli***

*Julie Grosse-Sommer*



**Poster 380 (ID 1315)**

**Fitness landscape analysis reveals that the wild type allele is sub-optimal and mutationally robust**

Tamar Friedlander

**Poster 381 (ID 1326)**

**Demographic history, hybridisation and genomic variation of two Atlantic puffin subspecies**

Oliver Kersten

**Poster 382 (ID 1362)**

**Comparative genomics evidence striking convergence in adaptive duplications in mosquito species**

Jean Loup Claret

**Poster 383 (ID 1369)**

**Genes under selection in two inverted chromosomal regions of the western honey bee (*Apis mellifera*)**

Marco Mazzoni

**Poster 384 (ID 1396)**

**A single nucleotide variant in Eip75B affects the evolution of fecundity in *Drosophila***

Katja Hoedjes

**Poster 385 (ID 1432)**

**Population genomics of the waterbuck (*Kobus ellipsiprymnus*)**

Corey Kirkland

**Poster 386 (ID 1520)**

**Closer than they appear: Low divergence and no structure in pest beetle populations**

Shivansh Singhal

**Poster 387 (ID 1530)**

**Genomic signatures of sexually antagonistic and sex-limited selection on body size**

Martyna Zwojnska

**Poster 388 (ID 1631)**

**Role of evolutionary capacitance for adaptation in red flour beetles, *Tribolium castaneum***

Reshma R

**Poster 389 (ID 1635)**

**The genomics of adaptation to host plant using the comparative framework of the pea aphid complex**

Marjolaine Rousselle

**Poster 390 (ID 1793)**

**Genome evolution of the painted lady – a rising star of the insect migratory genomics**

Daria Shipilina

**Poster 391 (ID 1825)**

**The effect of hatchery-imposed selection on wild and farmed Australian blue mussels (*Mytilus* sp.)**

Georgina Bramwell

**Poster 392 (ID 1835)**

**Experimental evolution to uncover genome dynamics and effect of gene flow on adaptive divergence**

Langqing Liu

**Poster 393 (ID 1919)**

**The genomic patterns of divergence in the Oriental clade of the *D. melanogaster* species group**

Tane Kafle

**Poster 394 (ID 1941)**

**The genomics of avian adaptation and speciation: from oceanic to sky islands**

Claudia A. Martin

**Poster 395 (ID 1953)**

**Species divergence driven by ecology and mating system in taxonomically complex British Euphrasia**

Yanqian Ding

**Poster 396 (ID 1990)**

**Signals of epistatic interactions in time series genomic data**

Nathan Anderson

**Poster 397 (ID 2065)**

**Genomic relatedness matrix-based heritability of immune function in an invertebrate**

Cansu Çetin

**Poster 398 (ID 2115)**

**Genomic investigation of potential adaptive introgression in two cryptic bat species**

Marie Gurke

**Poster 399 (ID 2191)**

**Deciphering the genetic architecture of polygenic adaptation in *Tribolium castaneum***

Charles Rocabert

**Poster 400 (ID 2239)**

**The role of inbreeding in genetic depletion: genomic diversity of tundra bluethroat populations**

Dragomir Damjanovic

## S25. The positives and negatives of whole genome duplication: synthesizing polyploid evolution across organisms and disciplines

**Poster 401 (ID 973)**

**Polyploidization as an opportunistic mutation**

Josselin Clo

**Poster 402 (ID 998)**

**Niche differentiation after polyploidization?**

Nélida Padilla-García

**Poster 403 (ID 1313)**

**Evolution of the meso-octoploid genome of *Heliophila variabilis* (Brassicaceae)**

Yile Huang

**Poster 404 (ID 1363)**

**The macro eco-evolutionary dynamics of mixed ploidy populations**

Felipe Kauai Pereira

**Poster 405 (ID 1364)**

**Diploidization associates with cladogenesis, trait disparity and gene coevolution in Microlepidieae**

Xinyi Guo

**Poster 406 (ID 1373)**

**Are genes with variable expression more evolvable? Evidence from whole-genome duplication in fishes**

Christabel Floi Bucao

**Poster 407 (ID 1435)**

**Becoming polyploid in a diploid population: when size and metabolism change**

Silvija Milosavljevic

**Poster 408 (ID 1567)**

**Introgression between diploid and tetraploid *Cardamine amara* in their secondary contact zone**

Paolo Bartolić

**Poster 409 (ID 1595)**

**Origin and evolutionary significance of autotriploids in *Butomus umbellatus***

Eliška Petříková

**Poster 410 (ID 1694)**

**The parasitoid wasp *Nasonia vitripennis* as a model for animal polyploid evolution**

Kelley Leung

**Poster 411 (ID 1727)**

**How do different ploidies adapt? A case of *Arabidopsis* in non-extreme edaphic environment.**

Sonia Celestini

**Poster 412 (ID 1824)**

**Convergent evolution of DNA methylome in newly synthesized tetraploid towards natural tetraploid**

Rie Shimizu-Inatsugi

**Poster 413 (ID 2251)**

**Evolution of vision in sturgeons**

Prokop Košťátko

**Poster 414 (ID 2159)**

**Variation in the pathways and rates of diploid - polyploid gene flow across multiple plant systems**

Martin Čertner

**Poster 415 (ID 2264)**

**Eco-evolutionary dynamics in a polyploid establishment experiment**

Frederik Mortier

**Poster 416 (ID 2365)**

**How does the common barbel (*Barbus barbus*) see? The effect of the whole-genome duplication on vision**

Zuzana Konvičková

**Poster 417 (ID 2366)**

**Predictions from Fisher's geometric model on the effect of polyploidy on heterosis**

Hilde Schneemann

## S26. The biological meaning of SNPs

**Poster 418 (ID 1772)**

**A pipeline for SNP genotyping in non-model species with various DNA sources and sequencing platforms**

Samantha López Clinton

**Poster 419 (ID 2232)**

**Genome-wide SNPs reveals distinct population structure in the holoplanktonic snail *Limacina bulimoides***

Le Qin Choo

## S27. Tandem repeats: their role in molecular evolution and methods

**Poster 420 (ID 2088)**

**Evolutionary dynamics of transposable elements in the poison frog *Dendrobates tinctorius***

Aaron Comeault

**Poster 421 (ID 2257)**

**Ancient satellite DNA and rapid turnover across passerine birds**

Inês Borges

**Poster 422 (ID 2295)**

**Tandem repeats composing centromere, telomere and rDNA chromosome regions in the zebra finch**

Olga Takki

**Poster 423 (ID 2419)**

**Uncovering the diverse roles of short tandem repeat variation in colorectal cancer**

Max Verbiest

## S28. Beyond transcription: the role of post-transcriptional gene regulation in adaptation and evolution

**Poster 424 (ID 1414)**

**Alternative splicing plasticity constrains genetic diversity and the potential for adaptation**

Rachel Steward

**Poster 425 (ID 1161)**

**The probability of smithRNAs: mitochondria can easily get involved in nuclear regulation**

Federico Plazzi

**Poster 426 (ID 1928)**

**The biogenesis of mitochondrial short non-coding RNAs: an analysis of CLIP-seq data**

*Alessandro Formaggioni*

**Poster 427 (ID 2178)**

**Transcription factors and gene regulation in scent biosynthesis in *Ophrys* orchids**

*Chengwei Wang*

**Poster 428 (ID 2181)**

**Interrogating the function of the avian germline-restricted chromosome through isoform analysis**

*Niki Vontzou*

## S29. Comparative genomics: a powerful tool for exploring broad evolutionary questions

**Poster 429 (ID 1089)**

**Finding genome-specific differences between pairs of genomes**

*Beatriz Vieira Mourato*

**Poster 430 (ID 1220)**

**Characterising the genome of the spiny dogfish (*Squalus acanthias*)**

*Clara Isabel Wagner*

**Poster 431 (ID 1244)**

**Evodictor: Prediction of prokaryotic gene gain/loss evolution**

*Naoki Konno*

**Poster 432 (ID 1257)**

**Exploring drivers of adaptive radiation using a comparative genomics framework**

*Clara Groot Crego*

**Poster 433 (ID 1271)**

**Domestication of different varieties in the cheese-making fungus *Geotrichum candidum***

*Bastien Bennetot*

**Poster 434 (ID 1276)**

**Closely related *Tephritis* flies (Diptera: Tephritidae) have closely related host plants**

*Emma Kärrnäs*

**Poster 435 (ID 1343)**

**Signatures of balancing selection in genes associated with facial variation across great apes.**

*Alfie Gleeson*

**Poster 436 (ID 1381)**

**Revealing functional and genomic differences between two species of the megadiverse genus *Begonia***

*Katie Emelianova*

**Poster 437 (ID 1496)**

**The primordial MHC: insights from cartilaginous fish genomes and comparative genomics**

*Ana Verissimo*

**Poster 438 (ID 1523)**

**Changes in immunological genes to explain intraspecific and interspecific parrot's evolution**

*Mercedes Gómez*

**Poster 439 (ID 1527)**

**Museum versus the taxonomic gap: a type-specimen explicit protocol to resolve cophyline phylogeny**

*Alice Petzold*

**Poster 440 (ID 1564)**

**Identifying the genomic basis of the ecological transition to life out of sea in molluscs**

*Leandro Aristide*

**Poster 441 (ID 1566)**

**Chromosome rearrangements and evolutionary diversification of duplicated genomes**

*Manuel Poretti*

**Poster 442 (ID 1571)**

**The evolution of mutualistic dependence – a case study using a diverse ant/plant symbiotic system**

*Laura Campbell*

**Poster 443 (ID 1614)**

**MicroRNA expansion in cephalopods and the evolution of the complex nervous system**

*Grygoriy Zolotarov*

**Poster 444 (ID 1636)**

**Characterization of the genetic basis of resistance to (bio)pesticides in *Cydia pomonella* (L.)**

*Mathilda Idier*

**Poster 445 (ID 1646)**

**Genome-scale reconstructions of *Wolbachia* to elucidate horizontal transfer in Lepidoptera**

*Federica Valerio*

**Poster 446 (ID 1671)**

**Towards a better understanding of Lepidoptera phylogeny**

*Etka Yapar*

**Poster 447 (ID 1672)**

**Speciation without gene-flow in hybridizing deer**

*Camille Kessler*

**Poster 448 (ID 1677)**

**Multiple expansion and contraction events in two major chemosensory gene families in aphids**

*Sergio Gabriel Olvera Vazquez*

**Poster 449 (ID 1704)**

**De novo gene emergence: A large-scale investigation of the enabling mutations**

*Anna Grandchamp*

**Poster 450 (ID 1775)**

**Whole-genome duplication boosts parvalbumin gene diversity in teleost fishes**

*Subham Mukherjee*

**Poster 451 (ID 1832)**

**Convergent decay of the CTCF paralog BORIS in neognathous birds**

*Katja Palitzsch*

**Poster 452 (ID 1848)**

**Comparative genomics & transcriptomics reveal rapid evolution of novel reproductive genes in insects**

*Mrinalini*

**Poster 453 (ID 1893)**

**Comparative study of the evolution of human cancer gene duplications across fish**

*Richard Meitern*

**Poster 454 (ID 2030)**

**Clustered gene orientation bias on Gemmatimonadota chromosomes**

*Jürgen Tomasch*

**Poster 455 (ID 2066)**

**Comparative genomics identify major shifts in LINE content associated with bivalve diversification**

*Jacopo Martellosi*

**Poster 456 (ID 2118)**

**Host specialization of the pathogenic fungus *Zymoseptoria passerinii* in wild and domesticated barley**

*Idalia Rojas-Barrera*

**Poster 457 (ID 2262)**

**Machine learning assisted gene annotation of a nematode phylogeny by proteotranscriptomics**

*Camilo Alejandro Ceron Noriega*

**Poster 458 (ID 2312)**

**What makes a tree a tree? Evolution of the gene regulatory network underlying wood formation**

*Siri Birkeland*

**Poster 459 (ID 2409)**

**Evidence of horizontal transmission of *Wolbachia* within the *Drosophila saltans* group (Drosophilidae)**

*Lilian Madi-Ravazzi*

## S30. Characterizing genomic landscapes of recombination and their evolution

**Poster 460 (ID 1078)**

**Population genomics reveal PRDM9-dependent recombination landscapes in salmonids**

*Marie Raynaud*

**Poster 461 (ID 1268)**

**Influence of nutrient deficiency on meiotic recombination and pollen size variation in rye**

*Christina Wäsch*

**Poster 462 (ID 1449)**

**Effects of recombination rate variation on efficacy of selection in butterflies.**

*Karin Näsval*

**Poster 463 (ID 1475)**

**Genetic basis of individual recombination rate variation in a wild house sparrow population**

*John McAuley*

**Poster 464 (ID 1699)**

**Combination of recombination inference methods in a wild owl population**

*Alexandros Topaloudis*

**Poster 465 (ID 1770)**

**High-throughput gamete-based inference of recombination and variation within species**

*Sergio Tusso*

**Poster 466 (ID 1944)**

**The interplay between selection and the genomic landscape during the domestication of grain amaranth**

*Corbinian Graf*

**Poster 467 (ID 2007)**

**Inferring recombination from population genomic datasets: from simulation to real data**

*Marion Talbi*

**Poster 468 (ID 2064)**

**Yeast recombination specificity impact on demography inference**

*Louis Ollivier*

**Poster 469 (ID 2158)**

**PRDM9 diversity and function in salmonids**

*Julie Clement*

**Poster 470 (ID 2394)**

**The interplay of selection and recombination on the genomic level**

*Milan Malinsky*

## S31. Limits to adaptation: linking evolution, ecology, and genetics

**Poster 471 (ID 1093)**

**Maternal effects do not resolve the paradox of stasis in birth weight in a wild mammal**

*Julie Gauzere*

**Poster 472 (ID 1114)**

**Experimental evolution in *Drosophila*-parasitoid networks as a tool to study evolution in communities**

*Vincent Montbel*

**Poster 473 (ID 1137)**

**Genetic drift and the architecture of polygenic adaptive divergence under gene flow**

*Himani Sachdeva*

**Poster 474 (ID 1269)**

**Fisheries induced evolutionary changes recover slowly but surely over time.**

*Stephan Van Dijk*

**Poster 475 (ID 1287)**

**The genomic consequences of 10,000 generations of isolation of Orkney voles**

*Xuejing Wang*

**Poster 476 (ID 1377)**

**Genotypes selected for early and late avian lay date differ in phenotype but not fitness in the wild**

*Melanie Lindner*

**Poster 477 (ID 1591)**

**Evolution of developmental constraints: lessons from a classic case of fish resource polymorphism**

*Kalina Kapralova*

**Poster 478 (ID 1729)**

**Random segregation as a constraint on the evolution of multidrug resistance on bacterial plasmids**

*Ian Dewan*

**Poster 479 (ID 1798)**

**How does ecology shape phenotypic and genomic divergence on a small spatial scale?**

*Sofie Nilén*

**Poster 480 (ID 1838)**

**Rapid adaptation of a novel butterfly biocontrol in the Cook Islands (New Zealand)**

*Gabriela Montejo-Kovacevich*

**Poster 481 (ID 1870)**

**Unraveling the impact of compensatory evolution on metabolic divergence**

*Dorottya Kalapis*

**Poster 482 (ID 1940)**

**Coarse-graining model for the evolution of cooperative breeding**

*Alan Flatres*

**Poster 483 (ID 2119)**

**Genome-wide changes caused by fishing in experimentally exploited fish populations**

*Silva Uusi-Heikkilä*

**Poster 484 (ID 2282)**

**Bill length variation in great tits (*Parus major*): Are there any fitness consequences?**

*Judith Risse*

**Poster 485 (ID 2377)**

**Trade-off between mimicry and thermoregulation: an experimental study in hoverflies**

*Klára Daňková*

## S32. Inferring macroevolutionary patterns from microevolutionary processes: methods and practices

**Poster 486 (ID 1365)**

**Effects of distinct drivers on the phylogenetic structure of forests in the Eastern Czech Republic**

*Ecio Diniz*

**Poster 487 (ID 1398)**

**Consistent phenotypic variation across biological levels: from developmental noise to macroevolution**

*Keita Saito*

**Poster 488 (ID 1456)**

**A spectrum of verticality across genes**

*Falk Nagies*

**Poster 489 (ID 1573)**

**Innovation and elaboration on the avian tree of life across evolutionary scales**

*Thomas Guillerme*

**Poster 490 (ID 1695)**

**The role of nutrients in the evolution of multicellularity in green algae**

*Qinyang Li*

**Poster 491 (ID 2002)**

**Modeling the diversification of species interaction networks**

*Yichao Zeng*

**Poster 492 (ID 2254)**

**Elucidation the systematic status of *Orestias agassii* (Cyprinodontinae): Altiplano, South America**

*Alejandra Fabres*

**Poster 493 (ID 2437)**

**Analysis of evolutionary regimes of mammals under the mixed Gaussian phylogenetic model**

*Bayu Brahmantio*

**Poster 494 (ID 2450)**

**Is there a trend in evolvability? Testing the theory of frozen evolution**

*Jan Toman*

## S33. Domestication: Fresh insights from ancient genomics

**Poster 495 (ID 1264)**

**The founding feathers: the true ancestry of the Barbary dove**

*Germán Hernández Alonso*

**Poster 496 (ID 1383)**

**How would you recognize an aurochs if you sequenced one?**

*Jacob Chisausky*

**Poster 497 (ID 1518)**

**An archaeogenomic perspective into sheep evolution and local breeds in the Baltic Sea area**

*Martin Larsson*

**Poster 498 (ID 1606)**

**Deciphering the evolutionary history of a domesticated red alga using population genomic**

*Marie Laure Guillemin*

**Poster 499 (ID 2100)**

**Spread of donkeys into Asia Minor: archaeogenomic evidence**

*Mustafa Özkan*

**Poster 500 (ID 2253)**

**Animal domestication by humans as a case of correlated evolution**

*Andre Rodrigues*

**Poster 501 (ID 2299)**

**The history of domestic cat in Central Europe**

*Danijela Popovic*

**Poster 502 (ID 2399)**

**Early European tomato genomes reveal a mixed origin and private variation at domestication genes**

*Simon Aeschbacher*

## S34. How have biomarkers improved our understanding of health and the evolution of senescence?

**Poster 503 (ID 1065)**

**Ageing and age-specific effects of deletions on *Drosophila* life history**

*Martin Linatti Brengdahl*

**Poster 504 (ID 1205)**

**Does evolution of ageing feedback (positively or negatively) on itself?**

*Avani Mital*

**Poster 505 (ID 1584)**

**Parental age effects on offspring performance exacerbate reproductive senescence in European badgers**

*Melanie Weedon*

**Poster 506 (ID 1588)**

**Transient early-life downregulation of nutrient-sensing signalling improves late-life survival**

*Sara Irish*

**Poster 507 (ID 1897)**

**The use of cave-dwelling animals as models in senescence studies**

*Enrico Lunghi*

**Poster 508 (ID 1902)**

**Biomarkers in a social fluid reveal social rewiring of metabolism and aging in superorganismal ants**

*Adria LeBoeuf*

**Poster 509 (ID 1913)**

**Inheritance of senescence-associated methylation patterns in the short-lived turquoise killifish**

*Lisandrina Mari*

**Poster 512 (ID 2036)**

**Biomarkers for immunosenescence and inflammaging in wild passerine birds**

*Michal Vinkler*

**Poster 513 (ID 2038)**

**The effect of germline senescence on life history evolution**

*E. Yagmur Erten*

**Poster 510 (ID 2226)**

**Synchronization of senescence across phenotypic traits and sex difference in the Alpine swift**

*Héloïse Moullec*

**Poster 511 (ID 2234)**

**Reproductive death and the delay of the selection shadow in ants**

*Luisa Maria Jaimes Nino*

## S35. The art of microscopic war: interference competition in microbes

**Poster 514 (ID 1024)**

**Siderophore-mediated social interactions drive invasion dynamics in natural *Pseudomonas* communities**

*Alexandre Figueiredo*

**Poster 515 (ID 1115)**

**Collective protection against the type VI secretion system in bacteria**

*Elisa Granato*

**Poster 516 (ID 1181)**

**A plasmid-borne antibacterial T6SS effector in *Vibrio campbellii***

*Katarzyna Kanarek*

**Poster 517 (ID 1182)**

**A novel antibacterial T6SS effector restricted to a subset of *Vibrio parahaemolyticus* isolates**

*Daniel Tchelet*

**Poster 518 (ID 1238)**

**Engineering a customizable antibacterial T6SS-based platform in *Vibrio natriegens***

*Biswanath Jana*

**Poster 519 (ID 1753)**

**Systematic identification of novel genetic targets for fungal-bacterial antagonism**

*Yu-Ying (Phoebe) Hsieh*

**Poster 520 (ID 1828)**

**Competition between two contagious cancers for one host: the Tasmanian devil (*Sarcophilus harrisii*)**

*Anne-Lise Gérard*

**Poster 521 (ID 1976)**

**The evolution & ecology of bacteriocins in natural populations of *Staphylococcus aureus***

*Joshua Thomas*

**Poster 522 (ID 2288)**

**Inter-species competition and resource availability can limit the evolution of pathogen virulence**  
*Devshuvam Banerji*

## S36. Evolution of antibiotic resistance: from lab to clinic

**Poster 523 (ID 1056)**

**Quantifying stress-induced mutagenesis using fluctuation assays**  
*Lucy Lansch-Justen*

**Poster 524 (ID 1248)**

**Combining antibiotics to curb antibiotic resistance: A systematic review and meta-analysis**  
*Berit Siedentop*

**Poster 525 (ID 1652)**

**Evolutionary paths to high-level ampicillin resistance**  
*Rotem Gross*

**Poster 526 (ID 1666)**

**Antibiotic resistance fitness landscapes are surprisingly predictable across environments**  
*Ana-Hermina Ghenu*

**Poster 527 (ID 1732)**

**One strategy to treat them all? The “hit hard” dogma in view of antibiotic resistance evolution**  
*Peter Czuppon*

**Poster 528 (ID 1803)**

**Antibiotic persistence is not defined by bacterial population growth phase**  
*Saran Davies*

**Poster 529 (ID 1818)**

**Exploring the boundaries and mechanisms of cellular negative hysteresis**  
*Lina Marie Upterworth*

**Poster 530 (ID 2449)**

**Ecologically mediated mutation rate plasticity provides new insights on microbial evolution**  
*Rowan Green*

## S37. Microbiomes in the wild: the drivers and evolutionary consequences of microbiome variation

**Poster 531 (ID 999)**

**Feedback loop: microbiome, immunity, stress and fitness**  
*Hugo Pereira*

**Poster 532 (ID 1017)**

**Effect of temperature in the microbiota composition of a parasitoid wasp**  
*Camila Souza Beraldo*

**Poster 533 (ID 1187)**

**Infection by a eukaryotic gut parasite in wild zooplankton associates with a distinct microbiome**  
*Amruta Rajarajan*

**Poster 534 (ID 1204)**

**How immune priming affects host microbiome and *vice versa***  
*Joachim Kurtz*

**Poster 535 (ID 1346)**

**Using flow cytometry to quantify and describe the gut microbiome of wild mice**  
*Simon Hunter-Barnett*

**Poster 536 (ID 1348)**

**Gut microbiota at the interface of host energy needs and food availability**  
*Anni Hämäläinen*

**Poster 537 (ID 1354)**

**Global comparative analysis of virome composition in ants**  
*Nicolas Schröder*

**Poster 538 (ID 1378)**

**Defensive symbiosis “in the wild”: seasonal dynamics of parasitism and symbiont-conferred resistance**  
*Elena Gimmi*

**Poster 539 (ID 1404)**

**Coping with anthropogenic stress: the role of gut-associated bacteria in a freshwater isopod**  
*Elvira Lafuente*

**Poster 540 (ID 1463)**

**Pollution-related bird-microbe associations**  
*Lydia Leino*

**Poster 541 (ID 1512)**

**The drivers of gut microbiota in wild great tit: effects of health and heavy metal contamination**  
*Lucie Schmiedová*

**Poster 542 (ID 1521)**

**Secondary endosymbionts in aphid field populations**  
*Helena Donner*

**Poster 543 (ID 1549)**

**Response of the gut microbiota and its host to warmer climate and habitat fragmentation.**  
*Emma Fromm*

**Poster 544 (ID 1550)**

**Altitudinal effect on gut microbiome composition of Anatolian blind mole rat (*Nannospalax xanthodon*)**  
*Halil Mert Solak*

**Poster 545 (ID 1764)**

**Volatiles of bacterial origin associate ecto-parasitism and fledging success of hoopoes**  
*Juan José Soler*

**Poster 546 (ID 1779)**

**Effect of gut microbiota on male reproductive traits in *Drosophila melanogaster* populations**  
*Komal Maggu*

**Poster 547 (ID 1789)**

**Human encroachment into wildlife gut microbiomes**  
*Gloria Fackelmann*

**Poster 548 (ID 1812)**

**Co-evolution between leaf beetles and their gut microbiome**  
*Yueqing An*

**Poster 549 (ID 1839)**

**The nature and the role of gut microbiome in terrestrial and aquatic isopods**  
*Terezia Horvathova*

**Poster 550 (ID 1979)**

**How do herbivory-induced changes in plant microbiota shape plant evolution?**  
*Sara Nouere*

**Poster 551 (ID 2114)**

**Divergent gut microbiota and role of sociality in two closely related house mouse subspecies**  
*Barbora Bendová*

**Poster 552 (ID 2286)**

**Effect of urbanization on microbiome composition of the garden spider *Araneus diadematus***  
*Clémence Rose*

## S38. Molecular evolution and trade-offs in host-pathogen interactions and host immunity

**Poster 553 (ID 1104)**

**Effects of gut microbiota manipulation on *Blattabacterium* abundance in *Blattella germanica***  
*Srijita Ray*

**Poster 554 (ID 1107)**

**Trade-offs and the evolution of age-specific resistance to infectious disease**  
*Lydia Buckingham*

**Poster 555 (ID 1324)**

**MHC evolution and expression patterns in the Neotropical Midas cichlid species complex**  
*Seraina Emilia Bracamonte*

**Poster 556 (ID 1334)**

**MHC-based mate choice in bluethroats**  
*Arild Johnsen*

**Poster 557 (ID 1379)**

**Different evolutionary patterns in TLR7 and TLR8 in lagomorphs due to host-pathogen co-evolution**  
*Joana Abrantes*

**Poster 558 (ID 1389)**

**Determinants of variation in natural selection on immune function**  
*Otto Seppälä*

**Poster 559 (ID 1397)**

**Adaptive evolution of inflammasome-related genes in amniotic vertebrates**  
*Tao Li*

**Poster 560 (ID 1494)**

**Investigating associations between immunity and infectivity genes: vole MHC vs. *Borrelia ospC***  
*Joanna Róžańska-Wróbel*

**Poster 561 (ID 1538)**

**The effects of host age at exposure on *Daphnia* species infected by a yeast**  
*Sabrina Gattis*

**Poster 562 (ID 1541)**

**Immune gene diversity as driver of tuberculosis susceptibility and resistance in wild meerkats**  
*Nadine Müller-Klein*

**Poster 563 (ID 1555)**

**The potential for glasshouse whitefly to evolve resistance to biological control agent**  
*Mia Graham*

**Poster 564 (ID 1572)**

**The effects of infection intensity on the gene expression on tapeworm infected ants**  
*Tom Sistermans*

**Poster 565 (ID 1579)**

**Parasites inducing differential immune gene expression in sexuals and asexuals of gibel carp**  
*Mehedi Hasan Fuad*

**Poster 566 (ID 1583)**

**Intraspecific variation in how a specialist herbivore affects plant defences**  
*Jéssica Teodoro-Paulo*

**Poster 567 (ID 1613)**

**Influenza A virus infection induces differential expression of the duck TRIM gene repertoire**  
*Lee Campbell*

**Poster 568 (ID 1615)**

**The genetic complexity of resistance to mycoinsecticides**  
*Rose McKeon*

**Poster 569 (ID 1622)**

**Evolution of divergent infection responses against single vs coinfecting pathogens**  
*Srijan Seal*

**Poster 570 (ID 1682)**

**Natural selection on gene expression across invertebrate immune system**  
*Teo Cereghetti*

**Poster 571 (ID 1713)**

**High MHCII $\beta$  divergence associated with survival and parasite resistance in sticklebacks**

Arnaud GAIGHER

**Poster 572 (ID 1873)**

**Contemporary selection on MHC genes in a free-living ruminant population**

Wei Huang

**Poster 573 (ID 1875)**

**Trans-species polymorphism and convergent functionality at MHC IIB across cichlid radiations**

Carlos Lozano-Martín

**Poster 574 (ID 1899)**

**Balancing selection on the complement system of a wild rodent**

Mridula Nandakumar

**Poster 575 (ID 1926)**

**Lineage-specific influence of Haemosporidian parasites on European Robin's autumn migration**

Eszter Szöllösi

**Poster 576 (ID 1966)**

**Infection increases activity via Toll dependent and independent mechanisms**

Crystal Vincent

**Poster 577 (ID 2010)**

**Mechanisms supporting haplotype groups in mammalian TLRs**

Kalifa Samake

**Poster 578 (ID 2060)**

**Evolution of immune responsiveness to mycoplasmal conjunctivitis in house finch populations**

Nithya Kuttiyarthu Veetil

**Poster 579 (ID 2083)**

**Evolutionary responses to transmissible cancers**

Beata Ujvari

**Poster 580 (ID 2126)**

**T-cell repertoire diversity during infection in a natural model system for adaptive immunity**

Artemis Efstratiou

**Poster 581 (ID 2228)**

**Peptidome-wide analysis of lineage specific peptides of *Mycobacterium tuberculosis* strains**

Clinton Azuure

**Poster 582 (ID 2227)**

**Hyper-divergent haplotypes in nematode parasites contain genes involved in host-parasite interaction**

Lewis Stevens

**Poster 583 (ID 2240)**

**Susceptibility to trypanosomatid parasites in *Drosophila melanogaster***

Venera Tyukmaeva

**Poster 584 (ID 2313)**

**Imprints of past and present-day processes on the beaver MHC genes variability**

Jan Náhlavský

**Poster 585 (ID 2334)**

**High variability in MHC gene evolution among the adaptive radiations of cichlid fishes**

Pascal Hablützel

**Poster 586 (ID 2345)**

**Climate warming triggers the emergence of native viruses in Iberian amphibians**

Barbora Thumsová

**Poster 587 (ID 2348)**

**Sexual selection and disease resistance: a case study in amphibians**

Joana Sabino Pinto

**Poster 588 (ID 2428)**

**Cryptic pseudogenization in penguin *TLR15*: an adaptive change or a ratchet to poor immune function?**

Steven Fiddaman

**Poster 589 (ID 2435)**

**48 hours of solitude**

Tsering Choton

## S39. Mechanisms of host-symbiont coevolution: from genotype to phenotype

**Poster 590 (ID 1140)**

**Phenotypic plasticity of both partners in the giant ciliate *Zoothamnium niveum* thiotrophic mutualism**

Salvador Espada-Hinojosa

**Poster 591 (ID 1151)**

**Programmed cell death in endosymbiotic *Chlorella* affects the fitness of its host**

Santosh Sathe

**Poster 592 (ID 1409)**

**Cross-species statistics to infer host-parasite interactions using genome-wide polymorphism data**

Aurelien Tellier

**Poster 593 (ID 1554)**

**Impact of host selection and social environment on gut microbiome varies with development in finches**

Anna Antonatou-Papaioannou

**Poster 594 (ID 1807)**

**Genotype-genotype interactions revealed in alga-virus coevolution**

Eva Lievens

**Poster 595 (ID 1856)**

**Different immune genes show variation in strength of positive selection: genomic approach in birds**

Martin Těšický

**Poster 596 (ID 1858)**

**Population genomics of disease transmissibility by apple psyllids and their coevolving endosymbionts**

James Howie

**Poster 597 (ID 1868)**

**Population genomics of horizontal *Wolbachia* transfers between native and invasive cherry fruit flies**

Thomas M. Wolfe

**Poster 598 (ID 1892)**

**Diversity of symbionts in psyllids of the genus *Cacopsylla* and their co-divergence with its host**

Erika Corretto

**Poster 599 (ID 1917)**

**Defensive symbionts and the evolution of parasitoid host specialization**

Christoph Vorburger

**Poster 600 (ID 1975)**

**Exposing symbiosis: how selecting symbionts when free-living influences endo-symbiotic interactions**

David Hopkins

**Poster 601 (ID 2009)**

**Comparative genomics of *Wolbachia***

Svitlana Serga

**Poster 602 (ID 2388)**

**Ecological speciation via co-evolution? Population genomic differentiation in a freshwater parasite**

Milena Novakova

**Poster 603 (ID 2451)**

**Effects of parasites on human cognitive performance and personality: Manipulation or side effects?**

Jaroslav Flegr

## S40. OPEN SYMPOSIUM

**Poster 604 (ID 977)**

**Role of gene flow in dictating the adaptive response, and reproductive barriers in yeast.**

Supreet Saini

**Poster 605 (ID 1003)**

**Heliconius *Passiflora* Coevolution: evidence from its geographic distribution and species richness**

Catalina Sofía Sánchez-Melo

**Poster 606 (ID 1011)**

**Evolution is shown to be a function of species culture and evolutionary freedom, not selection**

Knarr Rose

**Poster 607 (ID 1029)**

**The transformability of genotype-phenotype landscapes**

Malvika Srivastava

**Poster 608 (ID 1052)**

**Impact of population density on sexual selection in the red flour beetle**

Lennart Winkler

**Poster 609 (ID 1063)**

**A global phylogeny of black and pied oystercatcher reveals two new species**

Tereza Senfeld

**Poster 610 (ID 1083)**

**Holey niche! A novel method to find holes in niche hypervolumes using persistence homology**

Pedro Conceicao

**Poster 611 (ID 1087)**

**Heterogeneous introgression at late stages of species formation in a grasshopper hybrid zone**

Ricardo Pereira

**Poster 612 (ID 1112)**

**Mutation bias shapes the spectrum of adaptive substitutions**

Alejandro V Cano

**Poster 613 (ID 1120)**

**Putting life history theory to the test – the estimation of reproductive values from field data**

Mirjam Borger

**Poster 614 (ID 1149)**

**Sexual conflict over mating frequency in a sexually cannibalistic mantis**

Nathan Burke

**Poster 615 (ID 1173)**

**Evolutionary ecology of resistance to sexually transmitted mites: The *Drosophila-Gamasodes* system**

Michal Polak

**Poster 616 (ID 1214)**

**Domestication of the fungi *Penicillium roqueforti* to make blue cheeses**

Thibault Caron

**Poster 617 (ID 1234)**

**The effect of mutagenic drugs on influenza A virus populations: bridging experiments and simulations**

Ana Y. Morales-Arce

**Poster 618 (ID 1294)**

**Cheating triggers tragedy of the commons, group size attenuates it**

Julian Melgar

**Poster 619 (ID 1299)**

**Worker task specialization in ants linked to differential expression of odor receptors in antennae**

Marcel Caminer

**Poster 620 (ID 1309)**

**Isolation in glacial refugia and extreme habitats drive lineage diversification in Arabian mangroves**

Guillermo Friis

**Poster 621 (ID 1330)**

**Eligibility and criteria for scientific awards in ecology and evolution – biases and opportunities**

Malgorzata Lagisz

**Poster 622 (ID 1337)**

**Genomics of insecticide resistance in bed bug**

Chloé Haberkorn

**Poster 623 (ID 1399)**

**Early divergence of *Metallura tyrianthina* in the Colombian Andes**

Juan Pablo Mongui

**Poster 624 (ID 1400)**

**A supermatrix phylogeny of the world's bees (Anthophila): A tool for macroevolutionary analyses**

Patricia Andrea Henríquez Piskulich

**Poster 625 (ID 1416)**

**Male-biased sex ratios increase sexual selection against a mutant in *Drosophila melanogaster***

Sakshi Sharda

**Poster 626 (ID 1437)**

**More than just density: fitness-functions in crowded *Drosophila* cultures**

Srikant Venkitachalam

**Poster 627 (ID 1439)**

**Aposematic colouration in mammals**

Natasha Howell

**Poster 628 (ID 1450)**

**A potentially new insecticide-resistant aphid sweeps through the Dutch greenhouses**

Mariska Beekman

**Poster 629 (ID 1455)**

**Lokiretroviruses are still alive and in good health in at least two species of lamprey**

Horacio Naveira

**Poster 630 (ID 1468)**

**Inferring speciation histories for species pairs across *Drosophila***

Leeban Yusuf

**Poster 631 (ID 1502)**

**Fitness landscapes reveal context-dependent benefits of oviposition choice**

Vrinda Ravi Kumar

**Poster 632 (ID 1505)**

**The role of micro and macro-evolutionary processes in determining insect communities on forest trees**

Freerk Molleman

**Poster 633 (ID 1508)**

**Molecular evolution of Na<sup>+</sup>,K<sup>+</sup> -ATPase and its role in cardenolide resistance in avian predators**

Shrikant Pradhan

**Poster 634 (ID 1526)**

**Eco-evolutionary extinction/recolonization dynamics reduce genetic load in highly inbred populations**

Anders Charmouh

**Poster 635 (ID 1535)**

**Toward proper nomenclature: reassessing honeybee (*Apis mellifera*) mtDNA nomenclature using phylogeny**

Slobodan Davidović

**Poster 636 (ID 1581)**

**The dynamic ontogenetic shape patterns of adaptive divergence and sexual dimorphism**

Lieke Ponsioen

**Poster 637 (ID 1590)**

**Demographic history of the South African coloured population**

Lucia Ximena Alva Caballero

**Poster 638 (ID 1594)**

**Implications of ancestor-descendent relationships on catarrhine phylogeny**

Carolynne Roberts

**Poster 639 (ID 1608)**

**Genome resequencing reveals hybrid zone dynamics of secondary contact in darters (Percidae)**

Pia Franziska Schwarz

**Poster 640 (ID 1638)**

**Evolutionary stasis: the missing fraction problem in a wild population of Soay sheep (*Ovis aries*)**

Elizabeth Mittell

**Poster 641 (ID 1643)**

**The morphological basis of social immunity in ants**

Max Aubry

**Poster 642 (ID 1647)**

**Should trees escape their relatives or invest in leaf defense to avoid leaf miners?**

Urszula Walczak

**Poster 643 (ID 1667)**

**Rapid radiation in the wild allopolyploid tobaccos (*Nicotiana* sect. *Suaveolentes*)**

Luiz Augusto Cauz dos Santos

**Poster 644 (ID 1668)**

**Impacts of human land use on genetic diversity in a set of generalist and specialist butterflies**

Zachary Nolen

**Poster 645 (ID 1669)**

**Persistence of Lambda prophages coevolving with *Escherichia coli* during frequent prophage induction**

Zachary Bailey

**Poster 646 (ID 1684)**

**Temperature shapes chromosome inversion polymorphism of *Drosophila subobscura* through generations**

Katarina Erić

**Poster 647 (ID 1722)**

**Context- and sex- dependent links between father's sexual success and offspring pathogen resistance**

Aijuan Liao

**Poster 648 (ID 1752)**

**Shady Christmas beetles? Reflecting sunlight reduces heating but does not correlate with hot climate**

Laura Ospina-Rozo

**Poster 649 (ID 1765)**

**Packing of transcription factor binding sites**

Magdalena San Roman

**Poster 650 (ID 1782)**

**Perception of dead conspecifics increases reproductive investment in *Drosophila melanogaster*.**

Quentin Corbel

**Poster 651 (ID 1813)**

**Heterozygous male lions live longer than homozygous males. A creatine-mediated effect?**

Aurelio Malo

**Poster 652 (ID 1852)**

**Co-variation between cortisol, behaviour, and immunity supports the pace-of-life syndrome hypothesis**

Jeffrey Carbillet

**Poster 653 (ID 1859)**

**Partial support for the Trivers-Willard hypothesis in the contemporary Hungarian population**

Fanni Sarkadi

**Poster 654 (ID 1869)**

**Functional study on an uncharacterized gene in caste differentiation in *Monomorium pharaonis***

Ruyan Li

**Poster 655 (ID 1874)**

**Sexual conflict in complex environments: temperature buffers male harm in wild *D. melanogaster***

Claudia Londoño-Nieto

**Poster 656 (ID 1884)**

**Predation risk regulates assortative mating in a desert isopod**

Viraj Torsekar

**Poster 657 (ID 1898)**

**Ultra-fine population structure powered by SNPs and SINE insertions**

Elena Beade-Toubes

**Poster 658 (ID 1904)**

**Museomics of the regionally extinct Black-veined White butterfly in Britain**

Rebecca Whitla

**Poster 659 (ID 1910)**

**Pedigree-based estimation of *de novo* mutation rate in the epaulette shark, *Hemiscyllium ocellatum***

Ashley Sendell-Price

**Poster 660 (ID 1911)**

**Previous pathogen experience modulates sanitary brood care behaviour in ants**

Linda Sartoris

**Poster 661 (ID 1918)**

**Valley of free-riders between horizontally and vertically transmitted mutualism**

Yu Uchiumi

**Poster 662 (ID 1924)**

**MTaxi : A comparative tool for taxon identification of low coverage ancient genomes**

Gozde Atag

**Poster 663 (ID 1943)**

**Influence of food web complexity on genetic diversity in coral reef fishes from Moorea**

Pierre Lesturgie

**Poster 664 (ID 1963)**

**New form of sexual selection by threshold preference explains costly male ornaments without benefit**

Dajo Boog

**Poster 665 (ID 1965)**

**Investigating the Neolithic Transition along the Danube route through spatially explicit simulations**

Alexandros Tsoupas

**Poster 666 (ID 1982)**

**Implications of differing measures of reproductive isolation in *Pseudochorthippus parallelus***

Linda Hagberg

**Poster 667 (ID 1983)**

**Overwinter users of nest cavities affect breeding birds via nest-dwelling ectoparasites**

Antonio José García Núñez

**Poster 668 (ID 1989)**

**Is brood sex ratio related to parental feeding rate? An experimental study on collared flycatchers**

Helga Gyarmathy

**Poster 669 (ID 1996)**

**Copy number variation analysis of ancient human genomes by CONGA**

Eren Yüncü

**Poster 670 (ID 2018)**

**Birds line their nests with aromatic plants in response to ectoparasites: the missing experiment**

Gustavo Tomás

**Poster 671 (ID 2023)**

**Pleistocene divergence and population turnovers in Collared lemmings**

Edana Lord

**Poster 672 (ID 2031)**

**Machine-learning facilitated pedigree-based mutation rate estimation in guppy (*Poecilia reticulata*)**

Katarzyna Burda

**Poster 673 (ID 2040)**

**Can a novel predatory tactic invade to rodent populations with herbivore diet?**

Tapio Mappes

**Poster 674 (ID 2041)**

**Repeat proliferation and partial endoreplication jointly drive the genome size evolution of orchids**

Pavel Trávníček

**Poster 675 (ID 2047)**

**Fishing for reproductive senescence**

Milan Vrtílek

**Poster 676 (ID 2050)**

**Variation and evolution of immunity with ageing**

Imroze Khan

**Poster 677 (ID 2070)**

**Urban population genomics and adaptation of brown rats (*Rattus norvegicus*) in Paris**

Romuald Laso-Jadart

**Poster 678 (ID 2102)**

**Monogeneans and chubs: ancient host-parasite system under the looking glass**

Eleni Anna Charmpila

**Poster 679 (ID 2122)**

**What drives the rapid buildup of sterility barriers in the Arctic crucifer *Draba nivalis*?**

Christian Brochmann

**Poster 680 (ID 2139)**

**Sexual-size dimorphism has evolved via sex-specific trait architecture**

Simona Kralj-Fišer

**Poster 681 (ID 2142)**

**Fixation probabilities in network structured meta-populations**

Sedigheh Yagoobi

**Poster 682 (ID 2154)**

**The role of evolvability, robustness, and tunability of transcription factors in regulatory rewiring**

Aleksandra Greshnova

**Poster 683 (ID 2185)**

**The changing effect of social class on fertility through the demographic transition in Switzerland**

Ege Pehlivanoglu

**Poster 684 (ID 2186)**

**Adaptive introgressions have driven the domestication of the apple tree**

Xilong Chen

**Poster 685 (ID 2188)**

**Identifying the environmental drivers of functional biodiversity loss in a freshwater lake**

Niamh Eastwood

**Poster 686 (ID 2199)**

**Transposable elements and genome size evolution in the plant genus *Curcuma* (Zingiberaceae)**

Bijay Khadka

**Poster 687 (ID 2201)**

**Atlantic vs. Mediterranean: Different evolutionary pathways of populations of goby *Gobius niger***

Jakub Hradečný

**Poster 688 (ID 2211)**

**Seeking the smoking gun of fisheries induced selection using covariance-based temporal genome scans**

Kwi Young Han

**Poster 689 (ID 2237)**

**Ray of light: vegetation cover is the main driver of color brightness evolution in squamates**

Jonathan Goldenberg

**Poster 690 (ID 2252)**

**New stygomorphic freshwater crab from Laos offers insights into the adaptation to cave life**

Myria Schröder

**Poster 691 (ID 2268)**

**Major urinary proteins profile and copy number variation in commensal and noncommensal mouse species**

Kristina Daniszová

**Poster 692 (ID 2270)**

**Mate choice and reproductive success in a warming planet**

Valentina Zizzari

**Poster 693 (ID 2272)**

**A reference genome assembly of the chaetognath *Flaccisagitta enflata***

Nadège Guiglielmoni

**Poster 694 (ID 2279)**

**Consequences of evolution under juvenile malnutrition for adult metabolism and fitness.**

Tadeusz Kawecki

**Poster 695 (ID 2296)**

**Conservation genomics of the Finnish wolf population**

Suvi Ponnikas

**Poster 696 (ID 2301)**

**Gene expression of distinct shell phenotypes between ecotypes of *Littorina saxatilis*.**

Florian Neugebauer

**Poster 697 (ID 2306)**

**Phylogeography and evolutionary history of the *Crociodura poensis-hildegardeae* species complex**

Inessa Voet

**Poster 698 (ID 2323)**

**Opsin gene expression and vision modification during ontogeny in European cyprinid fishes**

Veronika Truhlarova

**Poster 699 (ID 2329)**

**Male mating success evolves in response to increased levels of male-male competition.**

Tejinder Singh Chechi

**Poster 700 (ID 2331)**

**South-eastern Europe – a hotspot of genetic diversity of the European bitterling**

Veronika Bartáková

**Poster 701 (ID 2333)**

**An approach based on molecular data to relationship of *Fannia* (Fanniidae: Diptera) from Colombia**

Luz Gomez

**Poster 702 (ID 2335)**

**Host specificity influence how fungal pathogens navigate nutritional landscapes of their insect host**

Henrik H. De Fine Licht

**Poster 703 (ID 2339)**

**Museomics to resolve the genomic and wing-pattern relationships of burnet moths (*Zygaena*)**

Eduardo Marabuto

**Poster 704 (ID 2357)**

**Hybridisation of cyprinid fishes of the subfamily Leuciscinae in the Czech Republic**

Vít Kaufman

**Poster 705 (ID 2358)**

**Teach and outreach: promoting public understanding of evolution through collections-based learning**

Dragana Cvetkovic

**Poster 706 (ID 2387)**

**Ploidy as an imperfect speciation barrier: what drives interploidy gene flow in natural populations?**

Susnata Salony

**Poster 707 (ID 2403)**

**Identifying non-recurrent rare variants in Anopheles mosquitoes to infer evolutionary processes**

Josh Reynolds

**Poster 708 (ID 2414)**

**Phylogenetic and molecular clock study of plastid encoded genes untangle archaeplastidia evolution**

Filip Pietluch

**Poster 709 (ID 2418)**

**Cooperation and competition across the evolutionary transition to multicellularity**

Maria Kalambokidis

**Poster 710 (ID 2431)**

**Habitat determines convergent evolution of cephalic horns in vipers**

Theo Busschau

**Poster 711 (ID 2439)**

**Predictive genotype-phenotype-fitness mapping of the tetracycline efflux pump regulatory elements**

Zahra Khomarbaghi

**Poster 712 (ID 2441)**

**Genomes on a Tree (GoaT) – informing planning and progress of eukaryotic genome sequencing globally**

Cibele Sotero-Caio

**Poster 713 (ID 2443)**

**Dispersal can play a crucial role in evolutionary dynamics of flightless beetles**

Albert František Damaška

**Poster 714 (ID 2444)**

**Surviving ice ages by going south or up? – Biogeography of the European butterfly *Erebia medusa***

Julia Canitz

**Poster 715 (ID 2445)**

**On the relativity of species, or the probabilistic solution to the species problem**

Jan Kollár

**Poster 716 (ID 2446)**

**Evolutionary history of livestock guarding dogs**

Diogo Lima

**Poster 717 (ID 2447)**

**Population dynamics of the Late Pleistocene narrow-headed voles reconstructed using ancient DNA**

Mateusz Baca