15:30 Manon Schweinfurth, University of Bern
Reciprocity and kin selection - two alternative mechanisms
underlying cooperation in Norway rats

Marco Galimberti, *University of Fribourg*Detecting selection from linked sites using an F-model

15:45 Irene Adrian-Kalchhauser, University of Basel
Maternal mRNA is able to transmit temperature information
across generations in wild fish

Diana Ivette Cruz-Dávalos, *University of Bern*The performance of in-solution capture-enrichment experiment for human Y chromosome

16:00 FLASH POSTER TALKS EVOLUTION, Aula, Room 210 FLASH POSTER TALKS
ECOLOGY & CONSERVATION, Audi Max, R. 110

18:30

19:00-

24:00

SPECIATION AND DIVERSIFICATION, Aula, R. 210

PLANT-ANIMAL INTERACTIONS, Audi Max, R. 110

17:00 Max Schmid, University of Zurich

How does phenotypic plasticity affect population differentiation with gene flow?

17:15 **Carmela Doenz,** *EAWAG and University of Bern*Sympatric alpine charr diversity: origin from a hybrid swarm?

17:30 Barbara Keller. University of Zurich

Reproductive barriers and hybridization between co-flowering heterostylous primroses: integrating experimental and genomic approaches

17:45 Florian Moser, University of Bern

Genomic divergence as a result of ecological disruptive selection: Evidence from haplochromine cichlids

18:00 Moritz Muschick, EAWAG and University of Bern Fossils and ancient DNA shed light on the evolution of East African cichlids

18:15 Yanis Bouchenak-Khelladi, University of Zurich Frequent and parallel habitat transitions as driver of unbounded radiations: the African Restionaceae Yannik Staedler, University of Vienna

The importance of 3D flower shape and its modularity in complex plant-pollinator interactions

Hasan Candan, University of Bern

Differences in pollinator-plant networks of high and low altitude

Emma Morgan, ETH Zurich

Tracing coco de mer's reproductive history: pollen and nutrient limitation reduce fecundity

Tobias Züst, University of Bern

Plant chemical defense indirectly mediates aphid performance via interactions with tending ants

Brigitte Marazzi, Mus. canton. di storia naturale Lugano Extrafloral nectary-mediated ant-plant interactions in temperate zones: Insights from the Swiss southern Alps

Michael Eisenring, Agroscope, University of Bern Reduced Caterpillar Damage Benefits Lygus hesperus on Bt Cotton

Walk to Natural History Museum, Bernastrasse 15, Bern

DARWIN DINNER & PARTY, AT THE NATURAL HISTORY MUSEUM OF BERN

Darwin Talk by Tom Wenseleers, University Leuven, Belgium

The evolution of conflict and cooperation: from insects to human societies and beyond

10:15

11:00

WELCOME MORNING COFFEE BREAK

9:00 PLENARY TALK 3, Aula, Room 210

Andrew Balmford, *University of Cambridge*, *UK*Feeding the world without costing the earth

LIFE HISTORY, Aula, Room 210

10:00 Juan Pablo Busso, University of Zurich

Kathrin Garschall, University of Lausanne

damage and extends Drosophila life span

10:30 Arunas Radzvilavicius, UCL and University of Zurich

Healthier or bigger? Trade-off mediating male dimorphism in the black scavenger fly *Sepsis thoracica* (Diptera: Sepsidae)

Overexpression of the DNA repair factor dPrp19 reduces DNA

Selection for mitochondrial quality drives evolution of the

BIOGEOGRAPHY, Audi Max, Room 110

Emmanuel Fronhofer, *EAWAG & University of Zurich*Biotic interactions and the eco-evolutionary dynamics of range

Patrick Rohner. University of Zurich

expansions

Global macroecology of size, sexual size dimorphism, dispersal and range size in drosophilids

Sandra Brügger, University of Bern

FROZENFIRE – A millennium of European fire, vegetation and pollution history from a high alpine ice core in the Swiss Alps

10:45 Jan-Niklas Runge, University of Zurich

immortal germline and the aging soma

Free-living house mice carrying a selfish genetic element are more likely to emigrate

Rui Fernandes. University of Lausanne

Measuring the effects of error accumulation on performance metrics of species distribution models and stacked assemblages

COFFEE BREAK & POSTER SESSION (even numbers)

PHYLOGENETICS AND GENOMICS, Aula R. 210

11:45 Morgane Roth, ETH Zurich
Using wild tomato endosperm transcriptomes to assess the involvement of genomic imprinting in seed failure and

reproductive isolation

12:00 Amaury Avril, University of Lausanne

Transmission ratio distortion at a supergene controlling ant social organization

12:15 Madlen Stange, University of Zurich

Bayesian divergence time estimation and skull shape evolution in sea catfishes (Ariidae)

12:30 Fanny Pouyet, University of Bern

Biased gene conversion drives codon usage in human and precludes selection on translation efficiency

12:45 **Zuzana Hofmanová,** University of Fribourg

Early farmers from across Europe directly descended from Neolithic Aegeans

ECOLOGY 2, Audi Max, Room 110

Marcisz Katarzyna, University of Bern

Tiny but powerful – testate amoebae as indicators of past environmental changes

Luis J Gilarranz, University of Zurich

Anthropogenic effects are associated to a lower persistence of marine food webs

Roman Alther, EAWAG

Fluvial network structure shapes amphipod communities of Switzerland

Cyril Matthey-Doret, University of Lausanne

Comparative ecology of sexual and asexual parasitoid wasps

Seraina Cappelli, University of Bern

Leaf pathogenic fungi in grassland communities

13:00 LUNCH BREAK

PLENARY TALK 4, Aula, Room 210

Rosemary Gillespie, University of California, Berkeley, USA Island time and the interplay between ecology & evolution in species diversification

SYSTEMATICS, Aula, Room 210

15:15 **Pablo Duchen,** *University of Fribourg*Inference of evolutionary jumps in large phylogenies using

15:30 Tamara Spasojevic, University of Bern & NMBE

Leave no stone unturned: challenges in Ichneumonidae
palaeontology

15:45 **Jana Flury,** *University of Bern & NMBE*

Levy processes

The unexpectedly high diversity of the genus *Occidozyga* on Borneo

16:00 Rafaella Garbin, University of Fribourg

Using polymorphic characters to reconstruct the phylogeny of geoemydid turtles

PHYSIOLOGY, Audi Max, Room 110

Steffen Hahn, *Swiss Ornithological Institute*Impact of chronic malaria infection on aerobic performance in migratory birds

Nicolas Fasel, University of Lausanne

Blood fatty acid composition and its influence on bat metabolism

Lucas Marques da Cunha, University of Lausanne

Maternal allocation of carotenoids increases tolerance to bacterial infection in brown trout

Vincent Somerville, University of Basel

Methylome wide association study of two mating season phenotypes in a wild Round Goby population

14:15

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