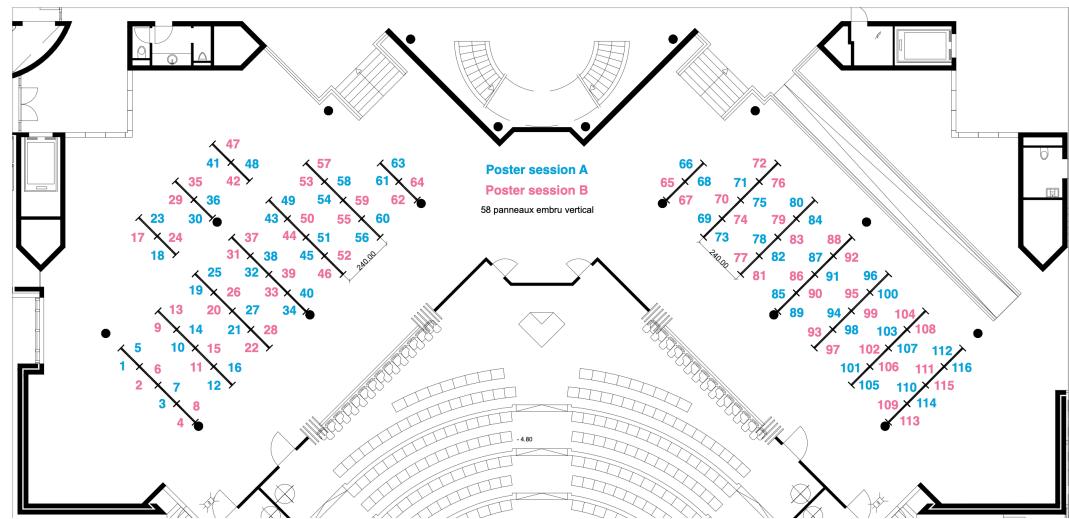




## POSTER LAYOUTS



# POSTER SESSION A

|     |   | <i>Theme(s)</i>                         |
|-----|---|---|
| A1  | Do temperature fluctuations increase the foraging range temperature of invasive ant species?<br>( <i>Mathieu Leclerc</i> )                            | BEHAVIOR                                |
| A3  | Fitness consequences of recurring social interactions and aggression in <i>Drosophila prolongata</i><br>( <i>Gayatri Raina</i> )                      | BEHAVIOR                                |
| A5  | Epigenetic mechanisms underlying behavioural responses to gut microbiome colonisation in bees<br>( <i>Gregorio Calderoni</i> )                        | BEHAVIOR / COMPARATIVE GENOMICS         |
| A7  | Revealing eco-metabolomics adaptations of alpine Rhododendrons growing on contrasted bedrocks<br>( <i>Donata Dadò</i> )                               | THEORETICAL EVO ECO                     |
| A10 | Tandem repeat variation in partially selfing populations<br>( <i>Vitor Sudbrack</i> )   | THEORETICAL EVO ECO / GENETICS          |
| A12 | The influence of incompatibilities and heterosis on hybrid population genetics<br>( <i>Julio Ayala-Lopez</i> )  | THEORETICAL EVO ECO / GENETICS          |
| A14 | Explore different methods to improve the reproducibility of results and field sampling in metabolomics<br>( <i>Mazzarine Laboureau</i> )              | OTHER                                   |
| A16 | Variation in the genetic architecture of ecologically relevant plant traits and its role in elevational range limits<br>( <i>Aaditya Narasimhan</i> ) | EVO GENETICS & GENOMICS / POP ECO & GEN |
| A18 | If not pharyngognath, then what? The role of ecology and hybridization in cichlid diversification<br>( <i>Alexus Roberts Hugghis</i> )                | OTHER / PHYLOGEN & SYSTEMATICS          |
| A19 | Speeding up shape: applications of deep learning to characterize phenotypic evolution in threespine stickleback<br>( <i>Richard Sulser</i> )          | OTHER / POP ECO & GEN                   |

# POSTER SESSION A

## Theme(s)

**A21** Evaluating animal welfare for rational decision making in the management of the invasive pond slider *Trachemys scripta* (*Lisa Andrea Moser*)

CONSERVATION BIO

**A23** Historical insect invasion dynamics vary by world region (*Rosaelle Perreault*)

BIOGEOGRAPHY & MACROECOLOGY

**A25** Phylogeographic history of a Ethiopian high-plateau endemic flightless ground beetle (*Cody Raul Cardenas*)

BIOGEOGRAPHY & MACROECOLOGY /  
PHYLOGEN & SYSTEMATICS

**A27** Environmental drivers of taxonomic, phylogenetic, and functional diversity in forest ecosystems (*Jan Vigués Jorba*)

COMM & ECOSYSTEM ECOLOGY

**A30** Baseline data collection on lake Zurich's macroinvertebrate community response to quagga mussel invasion (*Julie Conrads*)

COMM & ECOSYSTEM ECOLOGY

**A32** Climate-induced upward migration of herbivores increases herbivory through trait complementarity (*Baptiste Bovay*)

COMM & ECOSYSTEM ECOLOGY

**A34** Climate-induced upward migrations reshape tri-trophic dynamics in mountain ecosystems (*Emilie Lab*)

COMM & ECOSYSTEM ECOLOGY

**A36** Ecological determinants of host specificity in the gut microbiota of social bees (*Jérôme Benedetti*)

COMM & ECOSYSTEM ECOLOGY

**A38** Soil legacy effects of plant diversity and functional diversity on performance (*Aline Sonderegger*)

COMM & ECOSYSTEM ECOLOGY

**A40** From initial founding to foundational effects: experimental evidence that foundation species structure the assembly of macrozoobenthos communities in aquatic ecosystems (*Adam Janto*)

COMM & ECOSYSTEM ECOLOGY

# POSTER SESSION A

|     |  | Theme(s)  |
|-----|--|---|
| A41 | Plant aesthetic traits and their role in urban community assembly<br>( <i>Gala Mona Louise Dädlow</i> )  | COMM & ECOSYSTEM ECOLOGY                                  |
| A43 | Challenging the notion of core microbiota in a honeybee model<br>( <i>Meline Garcia</i> )  | COMM & ECOSYSTEM ECOLOGY                                  |
| A45 | How do short-range interactions affect the diversity of a microbial community?<br>( <i>Alessia Del Panta</i> )                                       | COMM & ECOSYSTEM ECOLOGY                                  |
| A48 | Coevolution in mutualistic networks reconciles richness and stability through positive interactions<br>( <i>Vasco Lepori</i> )                       | COMM & ECOSYSTEM ECOLOGY /<br>THEORETICAL EVO ECO         |
| A49 | Impacts of climate warming, pollution, and management on the vegetation composition of Central European beech forests ( <i>Daniel Scherrer</i> )     | COMM & ECOSYSTEM ECOLOGY /<br>BIOGEOGRAPHY & MACROECOLOGY |
| A51 | Shifting subsidies: how temperature affects the phenology, quality, and quantity of alpine aquatic-to-terrestrial subsidies ( <i>Connor Morang</i> ) | COMM & ECOSYSTEM ECOLOGY /<br>POP ECO & GEN               |
| A54 | A population model of the European tree frog ( <i>Hyla arborea</i> ) for management planning<br>( <i>Sabrina Sidney Friedrich</i> )                  | CONSERVATION BIO  |
| A56 | Perennial flower strips in vineyards: benefits and risks for wild bees<br>( <i>Léa Höhener</i> )   | CONSERVATION BIO  |
| A58 | Microclimate variation in internal microhabitats of alpine landscapes<br>( <i>Alice Ruffieux</i> )   | CONSERVATION BIO  |
| A60 | Let it beetle: effects of small structures on Carabid communities<br>( <i>Lara Schärer</i> )   | CONSERVATION BIO  |

# POSTER SESSION A

## Theme(s)

|     |  |   |
|-----|--|---|
| A61 | Effects of different treatments of forest disturbance sites on ungulate activity and browsing impact<br>( <i>Valeria Benz</i> )                                      | CONSERVATION BIO                            |
| A63 | Farmland butterfly diversity in Swiss lowland actively restored meadows<br>( <i>Lalya Poupon</i> )   | CONSERVATION BIO                            |
| A66 | Spider diversity in proglacial alluvial habitats: diversity, microecology and adaptation of spiders in the Valais alps ( <i>Jeanne Käser</i> )                       | CONSERVATION BIO                            |
| A68 | Rice paddies can help amphibian populations in Swiss agricultural landscapes<br>( <i>Yvonne Fabian</i> )   | CONSERVATION BIO                            |
| A69 | Little differences of uncut refuge rotation frequency on arthropod communities in extensively managed meadows ( <i>Matteo Negroni</i> )                              | CONSERVATION BIO                            |
| A71 | Post-fledging movement behaviour of the Eurasian hoopoe ( <i>Upupa epops</i> )<br>( <i>Laetitia Studer</i> )   | CONSERVATION BIO / BEHAVIOR                 |
| A73 | Can frogs give a piggyback ride to wasps? Analyzing the impact of conservation measures for amphibians and reptiles on parasitoid wasps ( <i>Angela Meneses</i> )    | CONSERVATION BIO / COMM & ECOSYSTEM ECOLOGY |
| A75 | Genomic monitoring of Orthoptera using a multi-locus barcode<br>( <i>Ines Carraquer</i> )  | CONSERVATION BIO / PHYLOGEN & SYSTEMATICS   |
| A78 | Worldwide association mapping of inversion polymorphisms in sticklebacks<br>( <i>Delia Valentina Sclabas</i> )   | EVO GENETICS & GENOMICS                     |
| A80 | Phenotype and genotype variation within the large white-headed gulls <i>Larus cachinnans</i> - <i>Larus argentatus</i> hybrid zone ( <i>Meng Yue - Melody - Wu</i> ) | EVO GENETICS & GENOMICS                     |

# POSTER SESSION A

|      |  | Theme(s)                                       |
|------|--|--|
| A82  | Flipping inversions: genome editing of chromosomal inversions with CRISPR-Cas9 in threespine sticklebacks ( <i>Nicole Nesvadba</i> )                   | EVO GENETICS & GENOMICS                        |
| A84  | Refugial populations host answers for diverse climatic adaptation: a lesson from a cosmopolitan raptor ( <i>Hugo Corval</i> )                          | EVO GENETICS & GENOMICS                        |
| A85  | Unraveling the mechanisms driving transitions to parthenogenesis in a ladybug ( <i>Kristine Jecha</i> )  | EVO GENETICS & GENOMICS                        |
| A87  | Integrating fossils, genomes, and citizen contributions: MoultDB and Moulting.org ( <i>Michele Leone</i> )   | EVO GENETICS & GENOMICS / PALEOBIO             |
| A89  | Sugar effect on the molecular interaction between the crustacean <i>Daphnia magna</i> and its parasite <i>Pasteuria ramosa</i> ( <i>Luca Pecalli</i> ) | EVO GENETICS & GENOMICS / MOLECULAR EVO        |
| A91  | Large genomic diversity due to extensive population size in the slow evolving European amphioxus ( <i>Marina Brasó-Vives</i> )                         | EVO GENETICS & GENOMICS / MOLECULAR EVO        |
| A94  | Escaping from a stressor: evolution of larval development under nutritional constraints ( <i>Carolina Pereira</i> )                                    | EVO GENETICS & GENOMICS / POP ECO & GEN        |
| A96  | <i>Amphiprion leucokranos</i> : the hybrid clownfish ( <i>Diego Hartasánchez</i> )   | EVO GENETICS & GENOMICS / POP ECO & GEN        |
| A98  | Is trait evolution better explained by time or instead by sequence divergence? ( <i>Thibault Latrille</i> )  | COMPARATIVE GENOMICS                           |
| A100 | Genomic structural variation in clownfishes' diversification ( <i>Anna Marcionetti</i> )   | COMPARATIVE GENOMICS / EVO GENETICS & GENOMICS |

# POSTER SESSION A

|      |  | Theme(s)   |
|------|--|--|
| A101 | Incomplete lineage sorting and its role in the recurrent evolution of parthenogenesis in stick insects<br>( <i>João Souto</i> )  | COMPARATIVE GENOMICS / EVO GENETICS & GENOMICS   |
| A103 | Comparative 3D genome architecture in fungi<br>( <i>Alice Laigle</i> )   | COMPARATIVE GENOMICS / EVO GENETICS & GENOMICS   |
| A105 | Genome size evolution in the most diverse clade of freshwater fishes<br>( <i>Hiranya Sudasinghe</i> )  | PHYLOGEN & SYSTEMATICS / EVO GENETICS & GENOMICS |
| A107 | The role of non-adaptive diversification in the montane karsts of western Cuba: extensive phenetic and genetic variation in <i>Viana</i> land snails ( <i>Ariel Ruiz Urquioa</i> ) | PHYLOGEN & SYSTEMATICS / POP ECO & GEN           |
| A110 | A genomic resolution to a cryptic butterfly species complex – the marsh fritillary <i>Euphydryas aurinia</i><br>( <i>Téo Valentino</i> )   | POP ECO & GEN                                    |
| A112 | Reproductive dynamics in warming world<br>( <i>Abhishek Meena</i> )  | POP ECO & GEN                                    |
| A114 | The costs and benefits of allelopathy as an evolutionary strategy<br>( <i>Aryahi Kumar</i> )   | POP ECO & GEN                                    |
| A116 | How do bat parasites spread? Insights into the population genetics of a bat fly<br>( <i>Clara Castex</i> )   | POP ECO & GEN                                    |

# POSTER SESSION B

**B2** Uncovering natural variations in social tolerance among wild vervet monkeys through a novel co-feeding paradigm (*Fabio Opreni*)

**B4** Male attractiveness, pathogens and female choice (*Berta Canal*)

**B6** Dispersal within a supercolony - who has power? (*Alison Benkert*)

**B8** Evolution of gene regulatory networks under negative frequency-dependent selection (*Ritam Das*)

**B9** Can a microbial community become an evolutionary individual? (*Afra Salazar*)

**B11** Signatures of selection within chromosomal inversions (*Karolina Wachala*)

**B13** Exploring the necrobiome: microbial succession during carcass decomposition (*Elie Tièche*)

**B15** A pipeline for analyzing environmental factors influencing microbial communities (*Janis Vilela*)

**B17** Heritability of resistance to oxidative stress and mitochondrial functions in the alpine swift (*Tachymarptis melba*) (*Cloé Hadjadjii*)

**B20** Quantifying morphological divergence of ceratobranchial bones between benthic and limnetic sticklebacks (*Sheila Christen*)

*Theme(s)*

BEHAVIOR

BEHAVIOR / EVO GENETICS & GENOMICS

BEHAVIOR / POP ECO & GEN

THEORETICAL EVO ECO

THEORETICAL EVO ECO / COMM & ECOSYSTEM ECOLOGY

THEORETICAL EVO ECO / EVO GENETICS & GENOMICS

OTHER

OTHER / COMM & ECOSYSTEM ECOLOGY

OTHER / EVO GENETICS & GENOMICS

OTHER / POP ECO & GEN

# POSTER SESSION B

|            |  | <i>Theme(s)</i>   |
|------------|--|---|
| <b>B22</b> | Temporal niche dynamics during invasion of ants<br>(Zoé Sherpa)  | BIOGEOGRAPHY & MACROECOLOGY                               |
| <b>B24</b> | The exclusion of fungal pathogens, not oomycetes, affects plant community biomass, particularly in warmer conditions (Kui Hu)                  | BIOGEOGRAPHY & MACROECOLOGY /<br>COMM & ECOSYSTEM ECOLOGY |
| <b>B26</b> | The spatial distributions of three cryptic amphipod species in Switzerland<br>(Nalonda Chatterjee)   | BIOGEOGRAPHY & MACROECOLOGY /<br>POP ECO & GEN            |
| <b>B28</b> | Priority effects of resources: changing order of arrival of leaf species alters ecosystem functioning<br>(Luke Ireland)                        | COMM & ECOSYSTEM ECOLOGY                                  |
| <b>B29</b> | Disrupted seasons, disrupted subsidies: exploratory climate-driven changes in alpine aquatic insect life cycles and food webs (Giorgia Ercole) | COMM & ECOSYSTEM ECOLOGY                                  |
| <b>B31</b> | Glacial influence, lake ecology and <i>Salvelinus alpinus</i><br>(Elliot Lewis)  | COMM & ECOSYSTEM ECOLOGY                                  |
| <b>B33</b> | Amphipod and aquatic insect interactions in tributaries of Lake Constance<br>(Katarina Bicvic)   | COMM & ECOSYSTEM ECOLOGY                                  |
| <b>B35</b> | Functional diversity of woody species used by birds across a disturbance gradient in high elevation Andean forests (Gabriela Maldonado)        | COMM & ECOSYSTEM ECOLOGY                                  |
| <b>B37</b> | How human and biophysical factors jointly shape biodiversity and nature's contributions to people in cities (PAPPUS project) (Marco Moretti)   | COMM & ECOSYSTEM ECOLOGY                                  |
| <b>B39</b> | How <i>Schistocephalus solidus</i> influence the feeding behavior and diet composition of three-spined sticklebacks (Jacob-Josef Brünning)     | COMM & ECOSYSTEM ECOLOGY                                  |

## POSTER SESSION B

|            |  | Theme(s)  |
|------------|--|---|
| <b>B42</b> | Mutualists and pathogens in the phyllosphere: the role of pesticides and herbivores in plant growth<br>( <i>Linjia Huang</i> )                                       | COMM & ECOSYSTEM ECOLOGY                              |
| <b>B44</b> | Plant communities and distribution patterns along elevation gradient<br>( <i>Mikko Tiusanen</i> )  | COMM & ECOSYSTEM ECOLOGY                              |
| <b>B46</b> | How have butterfly communities in Swiss agricultural systems changed in the last 25 years? – first trends after two years of data re-sampling ( <i>Julia Murer</i> ) | COMM & ECOSYSTEM ECOLOGY                              |
| <b>B47</b> | Impact of land-use and climate change on Lepidoptera diversity in mountain grasslands<br>( <i>Susanna Hempel</i> )   | COMM & ECOSYSTEM ECOLOGY                              |
| <b>B50</b> | Four years of tracking SARS-CoV-2 genomic variants in Swiss wastewater<br>( <i>David Dreifuss</i> )  | COMM & ECOSYSTEM ECOLOGY /<br>EVO GENETICS & GENOMICS |
| <b>B52</b> | Biological invasion and the human measure against it<br>( <i>Sebastian Ruile</i> )   | CONSERVATION BIO                                      |
| <b>B53</b> | Relaxation of management intensity promotes butterfly communities in mountain grasslands<br>( <i>Isabelle Arnold</i> )   | CONSERVATION BIO                                      |
| <b>B55</b> | Bloom or doom? Trend analysis of count data from monitoring programs of threatened plants<br>( <i>Farah Messaadi</i> )   | CONSERVATION BIO                                      |
| <b>B57</b> | How do stone pile characteristics and landscape elements influence stoat presence in fruit cultures in Valais ( <i>Juliette Stettler</i> )                           | CONSERVATION BIO                                      |
| <b>B59</b> | The value of multifunctional perennial flower strips in comparison to perennial wildflower strips<br>( <i>Nina Sehn</i> )  | CONSERVATION BIO                                      |

## POSTER SESSION B

|     |   | Theme(s)                                    |
|-----|---|---|
| B62 | Contribution of grape-protection nets in vineyards to avian mortality<br>( <i>Serena Poloni</i> )   | CONSERVATION BIO                            |
| B64 | Using drone-mounted thermal imaging cameras for microclimate mapping in Alpine landscapes<br>( <i>Luca Robbi</i> )                                    | CONSERVATION BIO                            |
| B65 | Wolves home ranges and habitat selection in Switzerland: understanding spatial behavior in a human-dominated landscape ( <i>Philippine Surer</i> )    | CONSERVATION BIO                            |
| B67 | Relax and unwind: how letting mountain meadows take it easy boosts biodiversity<br>( <i>Silja Eller</i> )   | CONSERVATION BIO                            |
| B70 | Unveiling black rhinos' chemical communication through olfactory cues emitted from dung<br>( <i>Ona Corberó-Forn</i> )                                | CONSERVATION BIO / BEHAVIOR                 |
| B72 | Drivers of floristic variation in Cerrado-Atlantic Forest ecotones within the Espinhaço Range Biosphere Reserve ( <i>Julia Viotti</i> )               | CONSERVATION BIO / COMM & ECOSYSTEM ECOLOGY |
| B74 | Assessing the impact of livestock farming on mammalian communities in the Kalahari<br>( <i>Ken Graf</i> )   | CONSERVATION BIO / COMM & ECOSYSTEM ECOLOGY |
| B76 | The intraspecific diversity of macrophytes in European pondscapes<br>( <i>Elisa Denis</i> )   | CONSERVATION BIO / POP ECO & GEN            |
| B77 | Indirect evidence for outbreeding depression upon assisted gene flow: insights from past introductions of Oriental beech ( <i>Camilla Stefanini</i> ) | CONSERVATION BIO / POP ECO & GEN            |
| B79 | Secondary contact and the genomic mechanisms that maintain incomplete reproductive isolation in a marine fish ( <i>Rongrong Zhang</i> )               | EVO GENETICS & GENOMICS                     |

# POSTER SESSION B

|     |   | <i>Theme(s)</i>                                |
|-----|---|--|
| B81 | Investigating signatures of local adaptation in the ubiquitous forest ectomycorrhizal fungus <i>Cenococcum geophilum</i> ( <i>Felix Zimmermann</i> )                                  | EVO GENETICS & GENOMICS                        |
| B83 | A pangenome analysis of structural variants and transposable elements across <i>Candida albicans</i> ( <i>Ursula Oggenfuss</i> )  | EVO GENETICS & GENOMICS                        |
| B86 | A reference metagenome sequence of the lichen <i>Cladonia rangiformis</i> reveals a highly complex micro-environment ( <i>Carlotta Wehrkamp</i> )                                     | EVO GENETICS & GENOMICS                        |
| B88 | A comparison of selective pressures on autosomes and young X chromosome in <i>Mercurialis annua</i> ( <i>Suhaas Sehgal</i> )  | EVO GENETICS & GENOMICS / MOLECULAR EVO        |
| B90 | Escalation of genomic conflicts and species differentiation driven by hybridization ( <i>Fritjof Lammers</i> )  | EVO GENETICS & GENOMICS / MOLECULAR EVO        |
| B92 | Can inversion breakpoints generate alternative gene isoforms or alter gene expression? ( <i>Anna Räss</i> )   | EVO GENETICS & GENOMICS / MOLECULAR EVO        |
| B93 | Detection of positive selection in regulatory sequences through genotype-to-fitness function and machine learning predictions ( <i>Alexandre Laverré</i> )                            | EVO GENETICS & GENOMICS / MOLECULAR EVO        |
| B95 | Signatures of genotypic local adaptation across gut microbial species sampled from Swiss roe deer ( <i>Russ Jasper</i> )  | EVO GENETICS & GENOMICS / POP ECO & GEN        |
| B97 | The effect of eco-evolutionary context on a protective symbiosis ( <i>Georgia Drew</i> )  | EVO GENETICS & GENOMICS / POP ECO & GEN        |
| B99 | Large scale orthology inference with FastOMA and its consequences in the reconstruction of the ancestral gene content of the first multicellular animal ( <i>Stefano Pascarelli</i> ) | COMPARATIVE GENOMICS / EVO GENETICS & GENOMICS |

## POSTER SESSION B

|      |  | Theme(s)   |
|------|--|--|
| B102 | Evolution of recombination landscapes: a comparative framework<br>(Marion Talbi)   | COMPARATIVE GENOMICS / EVO GENETICS & GENOMICS   |
| B104 | Target-capture museomics of arboreal <i>Therates</i> tiger beetles (Coleoptera, Cicindelidae)<br>(Agata Kowalik)                 | PHYLOGEN & SYSTEMATICS                           |
| B106 | Integrating field surveys and molecular techniques to enhance tardigrade biodiversity knowledge in Tunisia (Jamila Ben Marnissi) | PHYLOGEN & SYSTEMATICS / EVO GENETICS & GENOMICS |
| B108 | Elucidating molecular mechanisms of sex determination in stick insects<br>(Emelyne Gaudichau)                                    | MOLECULAR EVO                                    |
| B109 | Color polymorphism in the saddleback clownfish, <i>Amphiprion polymnus</i><br>(Lucy Fitzgerald)                                  | POP ECO & GEN                                    |
| B111 | Adaptation to elevation in plants – a reciprocal transplant experiment<br>(Katja Springer)                                       | POP ECO & GEN                                    |
| B113 | Interactions between heat and drought stress in Alpine brassicaceous species<br>(Alice Padlewski)                                | POP ECO & GEN                                    |
| B115 | Anthropogenic and climatic drivers of population densities in an African savanna ungulate community (Lukas Bierhoff)             | POP ECO & GEN                                    |