

# 3rd Joint Congress on Evolutionary Biology

Montreal, QC, Canada

Virtual Conference | June 27-28, 2024

In-Person Conference | July 26-30, 2024



American Society of Naturalists | European Society for Evolutionary Biology | Society of Systematic Biologists | Society for the Study of Evolution

## In-Person Conference Program

### Overview:

- **July 26, 2024: Workshops, Council Meetings, IDEA Plenary, + Welcome Reception**
- **July 27, 2024: Plenary, Symposia, Concurrent Sessions, Poster Session 1 + special events**
- **July 28, 2024: Plenary, Symposia, Concurrent Sessions, Story Collider + special events**
- **July 29, 2024: Plenary, Symposia, Concurrent Sessions, Poster Session 2 + special events**
- **July 30, 2024: Plenary, Symposia, Concurrent Sessions, Super Social Banquet + special events**

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**Conference Location:** Palais des Congrès de Montréal: 201 Av. Viger O, Montréal, QC H2Z 1X7, Canada

## Room Overview (Regular & Special)

**Registration:** 5<sup>th</sup> Floor Lobby

- **July 26:** 12-4 pm + 5-9 pm
- **July 27:** 7:15 am – 4 pm
- **July 28-30:** 8 am – 2:30 pm

**Workshops:** 5<sup>th</sup> Floor & 7<sup>th</sup> Floor

**Childcare (preregistered children only):** 5<sup>th</sup> Floor (521bc, 522)

- **July 27-30<sup>th</sup>:** 8:00 am – 5:30 pm

**Speaker Ready Room:** 521a

- **July 26, 2024:** 12:00 pm – 6:00 pm
- **July 27-29, 2024:** 8:00 am – 5:30 pm
- **July 30, 2024:** 8:00 am – noon

**Exhibitor Hall, Poster Sessions, Breaks:** 2<sup>nd</sup> Floor, 220de

**Safety Officer:** 4<sup>th</sup> Floor, Room 440

**Quiet Room:** 4<sup>th</sup> Floor, Room 441

**Nursing Room:** 4<sup>th</sup> Floor, Room 449 (pick up keycard at registration, return at end of conference)

**Plenaries, Symposia, Concurrent Sessions:** 5<sup>th</sup> Floor, mixed



# DAY 1

## Friday, July 26: Workshops

### UDE workshop

**Room: 518B**

**8:30 AM - 12:30 PM**

**Description:**

Topics include navigating and networking at the conference and applying to graduate school. This workshop is part of the [Undergraduate Diversity at Evolution program](#) and primarily attended by UDE participants (Pre-registration required)

### How to get a post-doc in evolution workshop

**Room: 519AB**

**8:30 AM - 12:30 PM**

**Description:**

This workshop is focused on supporting advanced doctoral students and recent graduates. It is sponsored by SSE GSAC (Graduate Student Advisory Council) and will focus on how to acquire a postdoctoral position including: identifying research interests, searching for positions, leveraging networks, independent funding, and negotiating with future employers. Based on recommendations from the GSAC committee, we will facilitate these discussions including a moderated formal information session and a panel and Q&A. Speakers will be recruited with diverse career paths and funding to highlight the multitude of opportunities available. To support these efforts and broaden their impacts, we will produce materials covering the topics that will be available virtually to all. Following the workshop, we will survey participants to gauge effectiveness and improve materials for future sessions. (Pre-registration required)

## **Slicermorph workshop**

**Room: 518C**

**8:30 AM - 5:30 PM**

### **Description:**

The full day workshop covers all aspects of digital morphology workflow from data import to visualization to segmentation to 3D model generation, morphometric data collection and GPA analysis and getting data into R for statistical inference.

In the first half of the workshop participants will learn basics of processing 3D digital morphology data with 3D Slicer and SlicerMorph, data management strategies, computing environment requirements and receive hands-on demonstration of how to use NSF funded public cloud resources to process large datasets. We will also cover demonstrations of available deep-learning frameworks within 3D Slicer to develop ML models of custom segmentation tasks. The second half of the workshop is focused on collecting, processing and visualizing geometric morphometric data within SlicerMorph and how to import them into R/geomorph package for further statistical inference. We will also discuss other non-landmark based statistical shape analysis techniques with Slicer ecosystem and compare approaches. Both sessions are continuous in nature, so participants are expected to attend both. Participants will learn how to self-support themselves after the workshop to further their knowledge and seek guidance and help from the community. (Pre-registration required)

## **NSF Proposal Writing workshop**

**Room: 518B**

**1:00 PM - 5:30 PM**

### **Description:**

What makes a good, potentially-fundable grant proposal? In this two-part workshop, attendees will participate in a mock review panel. This is a hands-on workshop, where you will learn how proposals are evaluated and what makes successful ones successful. Participants will be provided with two proposals to review, along with instructions, ahead of the workshop. In the second part of the workshop, NSF Program officers will answer questions about what to do and what to avoid, and comment on common problems with grant proposals. (Pre-registration required)



## **Navigating Scientific Publishing workshop - Early Career Edition**

**Room: 519AB**

**1:00 PM - 5:30 PM**

**Description:** Current changes in scientific publishing are among the most radical in >350 years and the range of publishing options expanding. Publisher-owned journals often dominate and increasing Article Processing Charges and surging Open Access threaten to leave authors and institutions with few affordable options. These changes particularly penalize early career researchers who are more dependent on high profile – typically more expensive – journals for establishing careers. This in-person workshop will discuss strategies for navigating the increasingly complicated publishing landscape, and for being successful. Activities will seek opportunities for input on these and other options from participating early career researchers about their concerns and how they would like scientific publishing to evolve to better support them in the future. (Pre-registration required). Organizers: Michael Dawson, Liz Alter, Bryan Carstens, Leticia Ochoa-Ochoa, Amanda Taylor

## **Diverse Careers workshop**

**Room: 725**

**1:00 PM - 5:30 PM**

### **Description:**

This active and participatory workshop will guide graduate students and postdocs in exploring and planning their careers after graduate school or postdoctoral training. Through presentations and small group activities, you will learn about the many potential career avenues open to those trained in evolutionary biology and ecology. You'll also learn the basics of building a professional network, how to identify the transferable skills you developed during your training, and have the opportunity to ask questions of biology PhDs who hold non-tenure-track jobs. (Pre-registration required)

## **Diverse Careers mixer**

**Room: 725 5:00 PM - 6:30 PM**

Mixer with snacks and a cash bar.



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## Council Meetings: Friday, July 26

**Joint Council entrance meeting** (For Joint Council Committee Members only).

**Room: 518A: 8:30 AM - 12:30 PM**

**SSB Council entrance meeting** (For SSB Council Members only).

**Room: 518A: 1:00 PM - 5:30 PM**

**SSE Council entrance meeting** (For SSE Council Members only).

**Room: 447: 1:00 PM - 5:30 PM**

**ASN Council entrance meeting** (For ASN Council Members only).

**Room: 445B: 1:00 PM - 5:30 PM**



# FRIDAY, JULY 26: EVENING EVENTS

## IDEA Award Plenary

**Room: 517BCD**

**7:00 PM - 8:00 PM**

**Corey Welch**

*How Gould & Indigenous perspectives led a trailer park kid to evolution & equity in science*

## Opening reception

**Room: 710**

**8:00 PM - 10:00 PM**

Appetizers & Cash bar

## International mixer

**Room: 720**

**8:00 PM - 9:00 PM**

Appetizers & cash bar



## DAY 2

**Saturday, July 27**

**PLENARY: SSB Presidential Address**

(Free coffee available in 517 Lobby)

**Room: 517BCD: 8:00 AM - 9:20 AM**

**David Baum**      *SSB Presidential Address: Exploring some uncomfortable truths about species*



**Room: 516A**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Adaptation I**

9:30 AM	<b>Céline Chevalier</b>	<i>First generations of domestication: how do zebrafish (<i>Danio rerio</i>) evolve in this particular context?</i>
9:45 AM	<b>Rafael Iwama</b>	<i>Bad romance: parasitism influences the evolution of the innate immunity in barnacles (Crustacea: Cirripedia)</i>
10:00 AM	<b>Vincent Calcagno</b>	<i>Adaptation to maize harvesting during independent host-shifts in European and Asian Corn Borers: adaptation of preadaptation?</i>
10:15 AM	<b>Shubha Govindarajan</b>	<i>Impact of founder context on adaptation to a novel habitat <b>WITHDRAWN</b></i>
10:30 AM	<b>Saúl Domínguez-Guerrero</b>	<i>Caribbean anoles from closed-canopy are rapidly increasing their heat tolerance in a warming world</i>



**Room: 520E**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Macroevolution I**

9:30 AM	<b>Lisa Byrne</b>	<i>Ecogeographical Rules and Macroevolutionary Patterns in Fishes</i> <b>WITHDRAWN</b>
9:45 AM	<b>Keiffer Williams</b>	<i>Herbivory as a driver of tooth complexity in reef-associated fishes</i>
10:00 AM	<b>Maxwell Shafer</b>	<i>Evolutionary genetics of sleep and nocturnality</i>
10:15 AM	<b>Callum Bucklow</b>	<i>Developmental Mechanisms of Macroevolutionary Change in the African Cichlid Vertebral Column</i>
10:30 AM	<b>Victor de Brito</b>	<i>Release from Competition Drives Accelerated Morphological Diversification in Freshwater Habitats</i>



**Room: 520F**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Sex / Recombination I**

9:30 AM	<b>Megan Motley</b>	<i>Rpl6y as a candidate gene for primary sex determination in Anolis sagrei</i>
9:45 AM	<b>Adrian Lee</b>	<i>Unraveling the Mysterious Sex Chromosomes in Sharks and Rays</i>
10:00 AM	<b>Lydia Fong</b>	<i>Expression of Y genes in the early stages of sex chromosome divergence in guppies</i>
10:15 AM	<b>Cleo Falvey</b>	<i>Investigating neo-sex chromosome evolution in a novel XXY lizard genome</i>
10:30 AM	<b>Melissa Toups</b>	<i>The insect X chromosome predates Class Insecta</i>



**Room: 523AB**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Ecology I**

9:30 AM	<b>Alice Coleman</b>	<i>Cross-tolerance between copper and heat is unidirectional in the intertidal copepod <i>Tigriopus californicus</i></i>
9:45 AM	<b>Kendra Gardner</b>	<i>Insights into lumpfish (<i>Cyclopterus lumpus</i>) diets: combatting salmon lice (<i>Lepeophtheirus salmonis</i>) in aquaculture</i>
10:00 AM	<b>Annette Kang</b>	<i>Back to the future: exploring and identifying bioclimatic and landscape variables contributing to <i>Paraponera clavata</i>'s current distribution and predictive distribution changes through ecological niche modelling</i>
10:15 AM	<b>Sherry Du</b>	<i>Sex-specific effects of an urban stressor, road salt, on vector-carrying mosquito populations</i>



**Room: 524A**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Genomics I**

9:30 AM	<b>Claire Mérot</b>	<i>Structural genomic variants in evolution: overview, methods and case studies</i>
9:45 AM	<b>Natalie Allen</b>	<i>Population genomics of the Pacific gray whale</i>
10:00 AM	<b>Amaelia Zyck</b>	<i>Investigating the effects of coastal stressors on the genomic variation of oyster populations in Narragansett Bay, Rhode Island</i>
10:15 AM	<b>Madlen Strange</b>	<i>Unravelling genetic diversity and hybridisation of minnows (<i>Phoxinus</i>) in Germany: insights from historical records and whole-genome analyses with implications for conservation and taxonomy</i>
10:30 AM	<b>David Toews</b>	<i>The genomic landscape of gene flow in wood-warblers (<i>Parulidae</i>)</i>



**Room: 524B**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Approaches to DEI initiatives in evolution and systematics for different cultural and national contexts**

9:45 AM	<b>Janet C. Buckner &amp; Jessica Ware</b>	<i>Creating and building community in natural history museums to broaden participation in evolution and systematics</i>
9:45 AM	<b>Zachary Calamari</b>	<i>A multiomics approach to understand cranial appendage evolution and support undergraduate research training</i>
10:00 AM	<b>Rin Krichilsky</b>	<i>Globalization of Natural History Collections: How Collaboration is Vital for Museum-based Research</i>
10:15 AM	<b>Ana L. Salgado</b>	<i>Leveraging the louisiana graduate network in applied evolution to enhance diversity, equity, and inclusion in evolutionary biology graduate programs</i>
10:30 AM	<b>Rosana Zenil-Ferguson</b>	<i>Create inclusive workshops: Merge natural history and quantitative approaches</i>



**Room: 524C**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Sensory systems**

9:30 AM

**Ryan Schott**

*The roles of ecology and ontogeny in the morphological, spectral, and molecular evolution of frog vision*

9:45 AM

**Benito Wainwright**

*Convergent patterns of visual adaptation in a community of mimetic butterflies*

10:00 AM

**Julien Devilliers**

*Molecular evolution of vision in mosquitoes*

10:15 AM

**Kayla Bazzana-Adams**

*Morphological covariation between the inner ear, brain, and braincase of the leopard gecko*

10:30 AM

**Janette Boughman**

*The neurotranscriptome of senses in stickleback fish from novel environments.*



**Room: 525AB**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Quantitative genetics**

9:30 AM	<b>Corlett Wood</b>	<i>Multivariate divergence in wild microbes: no evidence for evolution along a genetic line of least resistance</i>
9:45 AM	<b>Jacob Botello</b>	<i>"Quantitative genetic (co)variances contributing to sexual conflict over sexual size dimorphism in seed beetles (<i>Callosobruchus maculatus</i>)"</i>
10:00 AM	<b>Sarah Yakimowski</b>	<i>Limits to resistance evolution? Declining heritability of gene copy number variation</i>
10:15 AM	<b>Euan Angus Young</b>	<i>The genetic basis of reproductive traits as a risk factor for breast cancer in Dutch women</i>
10:30 AM	<b>Jesus Martinez-Gomez</b>	<i>The genetic basis of a floral ultraviolet pigmentation polymorphism in the yellow monkey flower <i>Mimulus guttatus</i></i>





**Room: 518B**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Social systems**

9:30 AM	<b>Leah Valdes</b>	<i>Infectious disease is a cost of larger group sizes in bumble bees</i>
9:45 AM	<b>Joe Colgan</b>	<i>Unexpected worker mating and colony-founding in a superorganism</i>
10:00 AM	<b>German Lagunas-Robles</b>	<i>The genetics underlying supercolony social organization in an ant species</i>
10:15 AM	<b>Jessica Purcell</b>	<i>Variation in social organization and supergene control along a latitudinal gradient</i>
10:30 AM	<b>Tim Linksvayer</b>	<i>Evolutionary and genomic causes and consequences of social complexity in ants</i>



**Room: 519AB**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Paleobiology**

9:30 AM	<b>Larisa DeSantis</b>	<i>Developing a Roo-setta stone for inferring past climates via the study of extant marsupials from natural history collections</i>
9:45 AM	<b>Christine Sosiak</b>	<i>Trait-based paleontological niche prediction recovers extinct ecological breadth of the earliest specialized ant predators</i>
10:00 AM	<b>Pierre Cockx</b>	<i>Exploring evolution in early birds and dinosaurs through ancestral state estimation methods</i>
10:15 AM	<b>Mairin Balisi</b>	<i>Ecomorphological variation and differential extinction among canid predators</i>
10:30 AM	<b>Dirley Cortés</b>	<i>Evolution of ancient marine ecosystems: insights from quantitative food web reconstructions and trophic guilds from a Cretaceous biota from Colombia</i>



**Room: 516B**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**The evolution of biological noise**

9:30 AM	<b>Ignacio Bravo</b>	<i>One transcript, multiple proteins: Pervasive translation of the downstream ORF from bicistronic mRNAs by human cells</i>
9:45 AM	<b>Fernanda Fontes Trancoso</b>	<i>The evolution of gene expression noise across yeast species</i>
10:00 AM	<b>Shraddha Lall</b>	<i>Evolution of Increased Variability in Turning Bias and Correlated Changes in Drosophila melanogaster</i>
10:15 AM	<b>Haoran Cai</b>	<i>Elevated expression variability following gene duplication potentiates gene retention</i>
10:30 AM	<b>Ricardo Azevedo</b>	<i>Facultative sex improves the efficiency of natural selection on mutation rate</i>



**Room: 516C**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Ecology and the evolution of reproductive traits**

9:45 AM

**Simon Joly**

*The level of pollination generalization of species affects the evolution of flower shape in Gesneriaceae*

10:00 AM

**Austin Cruz**

*The phylogenetic co-occurrence of pollination and dispersal mutualisms in plants*

10:15 AM

**Elisabeth Authier**

*Phenotypic response to limited access to natural pollinator community in Brassica rapa*

10:30 AM

**Samson Acoca-Pidolle**

*Rapid evolution of selfing syndrome: dissecting links between reproductive traits and selfing*



**Room: 516D**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Interacting in a changing world: the role of phenotypic plasticity in social evolution**

9:30 AM	<b>Nathan Bailey</b>	<i>Adaptation begets adaptation in Hawaiian crickets: Feedback from the sociogenetic environment drives compensatory intragenomic coadaptation</i>
10:00 AM	<b>Myranda Murray</b>	<i>Socio-eco-evolutionary dynamics under environmental change</i>
10:15 AM	<b>Geoff Wild</b>	<i>Evolution of social traits modelled in a systematic actor-centred way</i>
10:30 AM	<b>Cristina Tuni</b>	<i>Unravelling mate choice evolution through indirect genetic effects</i>



**Room: 516E**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Biogeography I**

9:30 AM	<b>Jonathan Rader</b>	<i>Testing the Tropical Niche Conservatism Hypothesis</i>
9:45 AM	<b>Chad Eliason</b>	<i>Why are there so many structurally coloured bird species in the tropics?</i>
10:00 AM	<b>Fernando Machado-Stredel</b>	<i>Climatic tolerances of kingfishers from the Indo-Pacific: The Todiramphus radiation as a case of niche conservatism in insular systems</i>
10:15 AM	<b>Santiago Claramunt</b>	<i>Dispersal, geographic range size, and speciation in birds: a macroevolutionary perspective</i>
10:30 AM	<b>Fabricio Rodrigues</b>	<i>The global determinants of climate niche breadth in birds</i>



**Room: 520A**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Coevolution I**

9:30 AM	<b>Inês Fragata</b>	<i>Coevolution in a heterogeneous environment does not change long-term coexistence outcomes between two competitors.</i>
9:45 AM	<b>Graziella Iossa</b>	<i>Coevolution between eggs and sperm of insects</i>
10:00 AM	<b>Kayla Stoy</b>	<i>Coevolutionary alternation limits mutualistic rewards</i>
10:15 AM	<b>Martin Turcotte</b>	<i>Experimental evolution of the determinants of species coexistence.</i>
10:30 AM	<b>Christian Landry</b>	<i>Compensatory mutations potentiate constructive neutral evolution by gene duplication</i>



**Room: 520B**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Conservation genetics across multiple species**

9:30 AM	<b>Jarrod Sopniewski</b>	<i>Estimates of heterozygosity from single nucleotide polymorphism markers are context-dependent and often wrong</i>
9:45 AM	<b>Kristy Mualim</b>	<i>Genetic diversity loss continues long after habitat destruction ends</i>
10:00 AM	<b>Barbara Mable</b>	<i>Inbreeding and conservation: using whole genome sequencing to monitor impacts of past management</i>
10:15 AM	<b>Ryan Chaffee</b>	<i>Developing a model for conservation of animal populations experiencing human-induced habitat fragmentation.</i>
10:30 AM	<b>Troy LaPolice</b>	<i>The Digital Reef: Informing coral restoration through insights from agent-based modeling</i>





**Room: 520C**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Mitochondrial functional genomics and evolution**

9:30 AM	<b>Dan Mishmar</b>	<i>Mitochondrial-nuclear regulatory coordination and coevolution: a 2 billion years commitment is compromised in disease</i>
10:00 AM	<b>Ryan Weaver</b>	<i>Convergent Evolution of an Alternative Mitochondrial Bioenergetic Pathway via Horizontal Gene Transfer</i>
10:15 AM	<b>Laima Bagdonaite</b>	<i>Mitochondrial DNA copy number variation in birds and its relationship to the sperm midpiece length</i>
10:30 AM	<b>Justin Havird</b>	<i>Mitochondrial coevolution as a rule for eukaryotic life</i>



**Room: 520D**

**9:30 AM - 10:45 AM**

**Saturday, July 27**

**Evolutionary dynamics of animal-microbe symbioses**

9:30 AM	<b>Russ Jasper</b>	<i>Signatures of genotypic local adaptation in multiple different gut microbiota members sampled from roe deer in Switzerland</i>
9:45 AM	<b>Charlotte Theys</b>	<i>The microbiome causally shapes latitudinal differences in immunity and pathogen tolerance, and buffers against immunosuppression under future warming</i>
10:00 AM	<b>Donald Price</b>	<i>Microbiome and temperature tolerance in a Hawaiian picture-winged Drosophila</i>
10:15 AM	<b>Cameron Hudson</b>	<i>Temperature drives a cline of symbiont-conferred resistance in an insect pest</i>
10:30 AM	<b>Bob Week</b>	<i>The Evolution of Microbiome Mediated Traits</i>



# SATURDAY, JULY 27: MORNING BREAK

## Flying Solo coffee social

**Room: 725**

**10:45 AM - 11:15 AM**

Coming to the conference alone? Join this coffee break for smaller group networking opportunities with those in the same situation. Held during regular break times, but in a different space.

(Preregistration not required. Coffee/Tea/Snacks included.)

## Coffee break

**Room: 220DE**

**10:45 AM - 11:15 AM**

Coffee, Tea, Water & Snacks

Exhibitor Booths:

- ASN/SSB/SSE/ESEB Grad Committees
- BES - British Ecological Society
- DataClassroom
- Joint Diversity Committee
- Journal of Evolutionary Biology
- Oikos
- Oxford University Press
- Princeton University Press
- Royal Society Publishing
- SSE Journals
- SSE Public Policy
- SySTEM BIO-LEAPS
- University of Chicago Press
- US National Science Foundation
- Vanderbilt University
- Yale University Press



**Room: 516A**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Adaptation II**

11:15 AM	<b>James Reeve</b>	<i>Rethinking ecotypes: the role of chromosomal inversions in local adaptation of an intertidal snail</i>
11:30 AM	<b>Samuel Mantel</b>	<i>Investigating the genetic basis of large-effect fitness trade off across environments in locally adapted <i>A. thaliana</i> populations</i>
11:45 AM	<b>Kelsie Hunnicutt</b>	<i>Chromosomal inversions contribute to local adaptation and gene expression divergence in high altitude deer mice</i>
12:00 PM	<b>Noah Rose</b>	<i>A large chromosomal inversion facilitates divergence between human-specialist and generalist populations of the dengue mosquito</i>
12:15 PM	<b>Liang Liu</b>	<i>From Marine to Freshwater: the Transcriptome and Epigenome Diversification in Sticklebacks</i>



**Room: 520E**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Macroevolution II**

11:15 AM	<b>Miriam Zelditch</b>	<i>Hotspots in mountains, 1: interactions between the adaptive landscape and the physical landscape</i>
11:30 AM	<b>Tiago Quental</b>	<i>The role of interspecific competition during North American Canid radiation</i>
11:45 AM	<b>Bruna Farina</b>	<i>Release of selection linked with aquatic transitions to mammals</i>
12:00 PM	<b>Nathália Caldeira</b>	<i>Revisiting and refining the third law of paleobiology: are speciation and extinction rates correlated through Carnivora evolution?</i>
12:15 PM	<b>Holly Kindsvater</b>	<i>Fundamental constraints on the evolution of vertebrate life histories</i>



**Room: 520F**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Sex / Recombination II**

11:15 AM	<b>Andrea Mrnjavac</b>	<i>Contrasting evolutionary patterns in old and young sex chromosome regions</i>
11:30 AM	<b>Natalia Rivera-Rincón</b>	<i>Interactive effects of hypoxia and low temperature on recombination rate plasticity</i>
11:45 AM	<b>Susan Johnston</b>	<i>The genetic architecture of recombination rates is polygenic and differs between the sexes in wild house sparrows</i>
12:00 PM	<b>Adam Hasik</b>	<i>Parasite-mediated inbreeding depression: insights from a long-term study of a wild vertebrate</i>
12:15 PM	<b>France Dufresne</b>	<i>Contagious asexuality, triploidy, and decay of male function</i>



**Room: 523AB**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Ecology II**

11:15 AM	<b>Grant Haines</b>	<i>Body condition, survival, and temporal variation in replicate Arctic charr populations</i>
11:30 AM	<b>Anibal Castillo</b>	<i>Pipeline for the assessment of leaf-litter invertebrate biodiversity using high throughput sequencing</i>
11:45 AM	<b>Zachary Lange</b>	<i>Does evolutionary convergence of species scale up to convergence of communities?</i>
12:00 PM	<b>Malahatosadat Dianat</b>	<i>DNA methylation as a marker or mediator? Insights into the transmission of parental senescence</i>
12:15 PM	<b>Jocelyn Lauzon</b>	<i>Metapangenomics reveals the genetic basis of phyllosphere <i>Methylobacterium</i> adaptations to host species in a temperate forest</i>



**Room: 524A**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Genomics II**

11:15 AM	<b>Sierra Smith</b>	<i>Evolutionary trajectories of novel enhancers and recruitment of trans-regulatory pathways that control snake venom.</i>
11:30 AM	<b>James Hemker</b>	<i>Population-level structural variant calling with 40 high-quality <i>Drosophila melanogaster</i> genomes</i>
11:45 AM	<b>Miles Roberts</b>	<i>Previously unmeasured genetic diversity explains part of Lewontin's paradox in a k-mer-based meta-analysis of 112 plant species</i>
12:00 PM	<b>Darrin Schultz</b>	<i>Evolutionary topology of animal genomes and the birth and death of chromosomal elements</i>
12:15 PM	<b>Bo Xia</b>	<i>On the genetic basis of tail-loss evolution in humans and apes</i>





**Room: 524B**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Evolutionary and ecological consequences of considering the environment as an extended phenotype**

11:15 AM

**Pim Edelaar**

*The environment as an extended phenotype: why, and how?*

11:45 AM

**Mabel Sydney**

*Female fruit flies prioritise social information above sexual harassment risk and nutrient quality when foraging*

12:00 PM

**Sylvia Durkin**

*Genetic and maternal determinants of adaptive tail length divergence in tropical and temperate house mice (*Mus musculus domesticus*).*

12:15 PM

**H el ene Vanvelk**

*Plastic and micro-evolutionary responses in three co-occurring *Daphnia* species to a heat wave and its ecological consequences*



**Room: 524C**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Gene expression I**

11:15 AM	<b>Matthew Gouly</b>	<i>Investigating the homology and evolution of monoaminergic cell types using comparative single cell transcriptomics</i>
11:30 AM	<b>Marie-Julie Fave</b>	<i>Impact of urban environmental air pollution on immune responses and gene expression profiles in humans</i>
11:45 AM	<b>Jason Keagy</b>	<i>A landscape transcriptomics approach to evaluating and predicting organismal response to extreme heat events</i>
12:00 PM	<b>Anna Savage</b>	<i>Wild transcriptomes reveal immunological drivers of rapid adaptation to a fungal pathogen in natural frog populations</i>
12:15 PM	<b>Brook Moyers</b>	<i>Pickleweeds and eutrophication: does nitrogen source matter?</i>



**Room: 525AB**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Experimental evolution I**

11:15 AM	<b>Josie Elliott</b>	<i>An Experimental Model System to Explore the Evolutionary Consequences of CRISPR-Cas Acquisition to a Naïve Bacterial Host</i>
11:30 AM	<b>Helen Stone</b>	<i>Host-range expansion and coevolutionary dynamics in a bacterial pathogen, commensal, and lytic phage community</i>
11:45 AM	<b>Rebecca Doyle</b>	<i>Disentangling the genomic mechanisms of mutualism decline. <b>WITHDRAWN</b></i>
12:00 PM	<b>Nanami Kubota</b>	<i>Cheater phages enable their bacterial hosts to exploit cooperative bacteria and drive the population to lower fitness</i>
12:15 PM	<b>Mayra Vidal</b>	<i>Genetic changes associated with coevolution between mutualists and cheaters</i>



**Room: 518B**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Evolutionary theory I**

11:15 AM	<b>Brendan Sheppard</b>	<i>Does adapting to novel challenges compromise competitive ability?</i> <b>WITHDRAWN</b>
11:30 AM	<b>Imran Sayyed</b>	<i>Does epistasis play a role in the mutation accumulation theory of aging in <i>Drosophila melanogaster</i>?</i>
11:45 AM	<b>Erica Vong</b>	<i>Evolutionary Decoupling of Dimorphic Scaling Patterns in Ants</i>
12:00 PM	<b>Ben Ashby</b>	<i>Eco-evolutionary dynamics in the microbiome: is the enemy of my enemy my friend?</i>



**Room: 519AB**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Bioinformatics I**

11:15 AM	<b>Zexuan Zhao</b>	<i>Transposon-rich pericentromeric regions and their impacts on genome evolution in <i>Pegoscapus fig</i> wasps</i>
11:30 AM	<b>Timothy Stephens</b>	<i>Cosmopolitan gene families with known functions are hotspots for the evolution of novel genes in stony corals</i>
11:45 AM	<b>Laura Munoz-Baena</b>	<i>The evolutionary fingerprint: investigating selection patterns in surface-exposed proteins of RNA Viruses</i>
12:00 PM	<b>Ryan Cook</b>	<i>Sex chromosome identification in the gliding gecko (<i>Gekkonidae: Gekko kuhli</i>) suggests an XY sex determination system</i>



**Room: 516B**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Adaptive epigenetics**

11:15 AM	<b>Janay Fox</b>	<i>Changes in grouping behaviour and DNA methylation patterns in response to early-life stress in Trinidadian guppies</i>
11:30 AM	<b>Yolanda Chen</b>	<i>Sublethal exposure to insecticides and epigenetic modifications in the Colorado potato beetle</i>
11:45 AM	<b>Man Luo</b>	<i>Parallel plastic responses and adaptive potential to projected salinization in freshwater fish</i>
12:00 PM	<b>Anna O'Brien</b>	<i>Host plasticity and the microbiome underlie acquired salt tolerance in a freshwater plant</i>
12:15 PM	<b>Lily Peck</b>	<i>Can DNA methylation help us understand climate-adaptation in trees?</i>



**Room: 516C**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Ecology and the evolution of reproductive traits**

11:15 AM	<b>Briante Najev</b>	<i>The influence of phosphorus limitation on maintenance of ploidy polymorphism and sexual reproduction.</i>
11:30 AM	<b>Mackenzie Urquhart-Cronish</b>	<i>Testing the influence of historical range expansion on contemporary mating system evolution</i>
11:45 AM	<b>Elizabeth Boville</b>	<i>Ecological and transcriptomic factors impacting reproductive behavior in the <i>Orbicella</i> species complex.</i>
12:00 PM	<b>Alison Bell</b>	<i>The proximate basis of evolutionary divergence in paternal care in sticklebacks</i>
12:15 PM	<b>Hannah Justen</b>	<i>Loci connected to seasonal migration are under viability selection in hybrids.</i>



**Room: 516D**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Networks in population genetics and phylogenetics: theory, methods and applications**

11:15 AM	<b>Elizabeth Allman</b>	<i>Inferring the tree of blobs from gene tree quartets under the network multispecies coalescent model.</i>
11:30 AM	<b>Dylan DeBaun</b>	<i>The genomic consequences of deep-time hybridization in Madagascar gemsnakes (<i>Pseudoxyrhophiidae</i>)</i>
11:45 AM	<b>Cecile Ane</b>	<i>Coalescent model with correlated introgression and simulator <i>PhyloCoalSimulations</i> for the species network coalescent</i>
12:00 PM	<b>Lauren Frankel</b>	<i><math>f</math>-statistics and other summary tests of admixture or introgression are sensitive to rate variation across lineages</i>
12:15 PM	<b>Matthew Osmond</b>	<i>Inferring the geography of genetic ancestry from ancestral recombination graphs</i>





**Room: 516E**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Biogeography II**

11:15 AM	<b>Jhael Ortega Paez</b>	<i>Systematics of the genus <i>Noblella</i> (Anura, Strabomantidae) with insights into its historical biogeography and a new genus of terrestrial-breeding frogs from northern Ecuador</i>
11:30 AM	<b>Xuhua Xia</b>	<i>Phylogeographic analysis of the invasive Asian hornet, <i>Vespa velutina</i>, to reconstruct its colonization of Europe from Asia</i>
11:45 AM	<b>Leland Graber</b>	<i>The evolution and biogeography of the harvester ant genus <i>Pogonomyrmex</i></i>
12:00 PM	<b>Matt Rockman</b>	<i>Speciation and migration shape <i>Caenorhabditis</i> biodiversity in Pohnpei, Micronesia</i>
12:15 PM	<b>Graham McLaughlin</b>	<i>Limited gene flow between island populations of the highly vagile Galápagos carpenter bee</i>



**Room: 520B**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Conservation genetics across multiple species**

11:15 AM	<b>Drew Sauve</b>	<i>Contemporary genetic adaptation in zoos and conservation breeding programs</i>
11:30 AM	<b>Ellika Faust</b>	<i>Establishing a framework for conservation genomics of freshwater biodiversity</i>
11:45 AM	<b>Guillermo Friis</b>	<i>Genetic consequences of tree planting versus natural colonization: Implications for restoration programs</i>
12:00 PM	<b>Dr. Katharine Prata</b>	<i>Estimating dispersal distances in corals across the world using isolation-by-distance and data synthesis</i>
12:15 PM	<b>Michael Connelly</b>	<i>Genome skimming reveals species diversity and patterns of adaptation and gene flow in east Pacific <i>Pocillopora</i> corals</i>



**Room: 520C**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Mitochondrial functional genomics and evolution**

11:15 AM	<b>Finley Grover-Thomas</b>	<i>Has the human mitochondrial genome evolved under environmentally mediated natural selection?</i>
11:30 AM	<b>Tuc Nguyen</b>	<i>Systemic discovery of mitonuclear interactions in <i>Caenorhabditis elegans</i></i>
11:45 AM	<b>Aidan Pierce</b>	<i>Patterns of gene loss in endosymbionts at the origin of eukaryotes</i>
12:00 PM	<b>Georgina Bramwell</b>	<i>The effect of mitochondrial recombination on fertilization success in blue mussels</i>
12:15 PM	<b>Vaishali Katju</b>	<i>No passive sidekick: a substantial role for mitochondrial compensatory evolution during adaptation of ETC-deficient strains of <i>Caenorhabditis elegans</i></i>



**Room: 520D**

**11:15 AM - 12:30 PM**

**Saturday, July 27**

**Evolutionary dynamics of animal-microbe symbioses**

11:15 AM	<b>María C. Tocora</b>	<i>Islands within islands: Co-diversification of host-microbe interactions across the Galápagos archipelago</i>
11:30 AM	<b>Andreas Härer</b>	<i>Contrasting biogeography of host-associated and free-living microbial metacommunities across two study systems</i>
11:45 AM	<b>Andrew Matthews</b>	<i>Exploring the evolutionary ecology of microbes associated with the common garden snail</i>
12:00 PM	<b>Svitlana Serga</b>	<i>Evolutionary dynamics of Wolbachia in invasive populations of the agricultural pest, <i>Drosophila suzukii</i></i>
12:15 PM	<b>Laura Lardinois</b>	<i>Sister Species an Ocean Apart: Investigating the drivers of coral reef fish microbiome composition across the Isthmus of Panama</i>



## **SATURDAY JULY 27, 2024: LUNCHTIME EVENTS**

**Lunch break (On your own): 12:30 PM - 2:30 PM**

**Editorial board meeting: Systematic Biology** (For Systematic Biology Editors only).

**Room: 725: 12:30 PM - 1:30 PM**

**Editorial board meeting: Evolution Letters** (For Editorial Board Members only).

**Room: 447: 12:30 PM - 1:30 PM**

**New Phytologist mixer** (by invitation only)

**Room: 445B: 12:30 PM - 2:30 PM**

### **Members Meetings (society members welcome)**

Lunch is not provided, but a kiosk is available in the lobby of 517 to purchase food if you wish to bring your own. Please note that, by building policy, no food from outside the convention center can be brought in. (Preregistration is not required).

**SSB Members meeting** Open to all members of SSB.

**Room: 524A: 1:30 PM - 2:25 PM**

**SSE Members meeting** Open to all members of SSE.

**Room: 524C: 1:30 PM - 2:25 PM**

**ASN Members meeting** Open to all members of ASN.

**Room: 524B: 1:30 PM - 2:25 PM**



## SATURDAY JULY 27, 2024: LUNCHTIME EVENTS (Contd.)

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### **NSF Information Session**

**Room: 519AB: 12:45 PM - 1:45 PM**

**Description:**

The National Science Foundation funds basic research in evolutionary biology and systematics, training of the next generation of evolutionary biologists, and broader impacts extending the reach of evolutionary research to benefit society. However, newer (and even experienced) scientists can find NSF's numerous programs, detailed guidance, and merit review process to be a difficult landscape to navigate. In this informational session NSF program officers will discuss new and ongoing programs and the merit review process (including Intellectual Merit and Broader Impacts), followed by an open-ended question and answer session. Participants who wish to meet briefly individually with an NSF Program Officer may be able to do so following the discussion. (Admission free. Pre-registration not required).

Lunch is not provided, but a kiosk is available in the lobby of 517 to purchase food if you wish to bring your own. Please note that, by building policy, no food from outside the convention center can be brought in.

### **EMBO Press workshop**

**Room: 518A: 12:45 PM - 1:45 PM**

**Description:**

EMBO Press is the publishing arm of EMBO, responsible for five peer-review journals covering different areas of Molecular Biology. It was recently decided at the organization level to put more emphasis on molecular ecology and evolution and promote these fields both at the research and publication levels.

The goal of this 1 hour workshop is to tell attendees about EMBO and especially EMBO Press, its journals and their uniqueness and points of strength that might appeal to authors in the field of Evolutionary Biology. We encourage open discussion and will also provide attendees with the chance to voice their opinions, suggestions and expectations regarding scientific peer-review publication in general and EMBO Press in particular. (Pre-registration required. Lunch Included).



**Room: 516A**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Adaptation III**

2:30 PM	<b>Brian Kissmer</b>	<i>Uncovering the role of structural variation during adaptation to a stressful host in a seed beetle</i>
2:45 PM	<b>Martijn Schenkel</b>	<i>Selfish elements, internal conflicts, and the quantification of organismality</i>
3:00 PM	<b>Mohammadjavad Meghrazi</b>	<i>Implications of macromolecule allocation trade-offs for growth and adaptation</i>
3:15 PM	<b>Madeline Toomey</b>	<i>Identifying signatures of climate adaptation in silver banksia, <i>Banksia marginata</i></i>
3:30 PM	<b>Daniel Weinreich</b>	<i>The Evolution of Phenotypic Noise</i>



**Room: 520E**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Macroevolution III**

2:30 PM	<b>Agathe Puissant</b>	<i>Ultraviolet in swallowtail butterflies: contrasted dorso-ventral evolution highlights a trade-off between natural and sexual selection on visual cues</i>
2:45 PM	<b>Ava Ghezelayagh</b>	<i>Contrasting bathymetric and biogeographic shifts in two globally distributed clades of marine bivalves</i>
3:00 PM	<b>Alejandro Gonzalez-Voyer</b>	<i>Temporal patterns of diversification and phenotypic evolution during adaptive radiation</i>
3:15 PM	<b>Alexandre Casadei Ferreira</b>	<i>Evolutionary dynamics of ant stinger morphology and relationships with feeding behavior</i>
3:30 PM	<b>Catherine Strong</b>	<i>Mandibular form and function across vertebrate water/land transitions</i>





**Room: 520F**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Population genetics I**

2:30 PM	<b>Riley Corcoran</b>	<i>Rapid and repeated human-mediated selection in a formerly migratory fish</i>
2:45 PM	<b>MK Hickox</b>	<i>Repeatability in highly variable environments: Selection dynamics amongst stickleback populations</i>
3:00 PM	<b>David Ferranti</b>	<i>Characterizing the evolutionary and natural history of threespine stickleback populations spanning the west coast of North America.</i>
3:15 PM	<b>Philippe Hénault</b>	<i>Genetic population structure of Lake Whitefish (<i>Coregonus clupeaformis</i>) in Great Slave Lake</i>
3:30 PM	<b>Xiatong Cai</b>	<i>Intra-riverine genetic adaptive divergence of three-spined stickleback to human-regulated flow regimes</i>



**Room: 524A**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Genomics III**

2:30 PM	<b>Marie-Laurence Cossette</b>	<i>Comparative genomics of the world's smallest mammals reveals links to echolocation, metabolism, and body size plasticity</i>
2:45 PM	<b>Nikolas Vellnow</b>	<i>Population genomics of wild avian embryos uncovers hidden genetic diversity</i>
3:00 PM	<b>Amy Pitura</b>	<i>Population decline of three common Leuciscidae minnows in disturbed environments <b>WITHDRAWN</b></i>
3:15 PM	<b>Emily Kerns</b>	<i>Does reduced representation bisulfite sequencing capture variation due to ancestry and environment in DNA methylation of threespine stickleback (<i>Gasterosteus aculeatus</i>)?</i>
3:30 PM	<b>Jie Wang</b>	<i>Sex chromosome evolution and polyploidy-mediated introgression in Australian burrowing frogs <i>Neobatrachus</i></i>



**Room: 524B**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Evolutionary and ecological consequences of considering the environment as an extended phenotype**

2:30 PM	<b>Megan Behringer</b>	<i>Inhibition of biofilm formation limits adaptation in a spatially structured environment</i>
2:45 PM	<b>Noah Houpt</b>	<i>Eco-evolutionary feedbacks drive non-transitive fitness effects in lab-evolved bacterial populations</i>
3:00 PM	<b>Nora Schulz</b>	<i>Niche construction mediates adaptation of the red flour beetle to its pathogen – insights from experimental evolution</i>
3:15 PM	<b>Silvia Colombo</b>	<i>The adaptive significance of nest architecture in birds: insights from global evolutionary and field studies</i>
3:30 PM	<b>Sean O'Fallon</b>	<i>Foraging behavior affects nest architecture in a cross-species comparison of ant nests</i>



**Room: 524C**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Gene expression II**

2:30 PM	<b>Marine Andriot</b>	<i>Abiotic stress-induced alternative splicing landscape in the intertidal copepod, Tigriopus californicus</i>
2:45 PM	<b>Daniela Zarate</b>	<i>Differential gene expression underlies a supergene mediating alternative colony organization in ants</i>
3:00 PM	<b>Anna Runemark</b>	<i>Can altered hybrid gene expression provide novel variation for selection to act on?</i>
3:15 PM	<b>Keith Adams</b>	<i>Genome-wide identification and analyses of copy number variants in 751 Populus trichocarpa individuals from natural populations</i>
3:30 PM	<b>Austin Bidy</b>	<i>Differential gene expression is constrained by clade divergence in a Baja California Peninsula endemic lizard (Urosaurus nigricaudus)</i>



**Room: 525AB**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Experimental evolution II**

2:30 PM	<b>Luis Ever Vega Cabrera</b>	<i>An increase in chromosome copy number drives rapid adaptation in a cold-adapted bacterium</i> <b>WITHDRAWN</b>
2:45 PM	<b>Katie MacGillivray</b>	<i>Accelerating evolution of bacterial T6SS resistance during experimental evolution</i>
3:00 PM	<b>Subham Mridha</b>	<i>Outer membrane changes in Escherichia coli enable resistance to repeated attacks of the bacterial predator Bdellovibrio bacteriovorus</i>
3:15 PM	<b>Emma Derrick</b>	<i>Adaptation of aquatic bacteria exposed to glyphosate-based herbicides in a diverse community</i>
3:30 PM	<b>Laura Phillips</b>	<i>How might uncovering conditionally essential gene profiles help curb the evolution of antimicrobial resistance in Escherichia coli?</i>



**Room: 518B**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Evolutionary theory II**

2:30 PM	<b>Nicolas Pastor</b>	<i>The Transplant Strategy: Climate Models and the Future of Prediction in Evolutionary Biology</i>
2:45 PM	<b>Jhelam N. Deshpande</b>	<i>Landscape structure drives eco-evolution in host-parasite systems.</i>
3:00 PM	<b>Bryce Morsky</b>	<i>Vaccination, NPIs, and collective action under social norms</i>
3:15 PM	<b>Olivier Cotto</b>	<i>A null model for the distribution of fitness effects of mutations</i>
3:30 PM	<b>Giorgio Boccarella</b>	<i>Bacterial persistence affects tempo and mode of resistance evolution</i>



**Room: 519AB**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Bioinformatics II**

2:30 PM	<b>Adam Freedman</b>	<i>Towards Best Practice for Genome Annotation Across the Tree of Life</i>
2:45 PM	<b>Cooper Kimball-Rhines</b>	<i>6 Hot Tips learned from assembling a tetraploid halophyte genome</i>
3:00 PM	<b>Kendra Zwonitzer</b>	<i>Not all strands are created equal: What strand-bias can tell us about the mechanism of mtDNA mutation across Metazoa.</i>
3:15 PM	<b>Andrew Wheeler</b>	<i>Protein domains with unbalanced amino acid usage are lost at a higher rate</i>
3:30 PM	<b>Michael McKibben</b>	<i>Species Tree Topology Impacts the Inference of Ancient Whole-Genome Duplications Across the Angiosperm Phylogeny</i>



**Room: 516B**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Adaptive epigenetics**

2:30 PM	<b>Maximiliano Zuluaga Forero</b>	<i>Genome-wide differential methylation corresponds to extreme intrasexual diversity in the Y-linked male-morphs of <i>Poecilia parae</i></i>
2:45 PM	<b>Stephen Proulx</b>	<i>The strength of selection on epigenetic inheritance depends on context</i>
3:00 PM	<b>Joelle Lafond</b>	<i>Maternal effects and shape change in a sexual/asexual fish complex</i>
3:15 PM	<b>Frédéric Silvestre</b>	<i>The evolutionary potential of DNA methylation in natural populations of a self-fertilizing vertebrate: the mangrove rivulus, <i>Kryptolebias marmoratus</i>.</i>
3:30 PM	<b>Sebastian Alvarado</b>	<i>How DNA methylation shapes pigmentation in a phenotypically plastic cichlid fish</i>





**Room: 516C**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Ecology and the evolution of reproductive traits**

2:30 PM	<b>Leonor Rodrigues</b>	<i>Mating behaviour and fertility of a monandrous species under thermal stress</i>
2:45 PM	<b>Théo Bodineau</b>	<i>A multi-trait evaluation of patterns and fitness consequences of breeding phenology plasticity with nocturnal warming and food restriction in a terrestrial lizard</i>
3:00 PM	<b>Henry Rosato</b>	<i>Digital evolution elucidates the role of changing ecological context in the evolution of sexual signaling and species isolation barriers</i>
3:15 PM	<b>Emily Lemmon</b>	<i>Incipient adaptive radiation driven by cascade reinforcement</i>
3:30 PM	<b>Ivain Martinossi-Allibert</b>	<i>Operational sex-ratio theory put to the test in a latitudinal study of wild fish populations</i>



**Room: 516D**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Networks in population genetics and phylogenetics: theory, methods and applications**

2:30 PM	<b>Maureen Stolzer</b>	<i>Separating the wheat from the chaff: introgression and other sources of discordance in phylogenomics</i>
2:45 PM	<b>Hector Banos</b>	<i>Anomalous networks under the coalescent model</i>
3:00 PM	<b>Joshua Justison</b>	<i>Tracing trait evolution through the paths within reticulate phylogenies: merging comparative methods for phylogenetic networks and gene trees</i>
3:15 PM	<b>Isabel Alves</b>	<i>Evidence for multiple domestication events during the evolutionary history of the yeast species <i>Saccharomyces cerevisiae</i></i>
3:30 PM	<b>Sungsik Kong</b>	<i>SNaQ2: Improved scalability for phylogenetic network inference</i>



**Room: 516E**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Biogeography III**

2:30 PM	<b>Donald Swiderski</b>	<i>Hotspots in mountains, 2: combining landscape complexity and connectivity</i>
2:45 PM	<b>David Tan</b>	<i>The origins and consequences of the blue-winged pitta range expansion in Southeast Asia</i>
3:00 PM	<b>Fabio Mendes</b>	<i>A new statistical method for testing paleobiogeographic hypotheses</i>
3:15 PM	<b>Lily Hughes</b>	<i>Phylogenomic resolution of lampreys reveals the recent evolution of an ancient vertebrate lineage</i>
3:30 PM	<b>André Vicente Liz</b>	<i>Historical biome shifts in the Sahara region since the Miocene: a macrogenetic perspective</i>



**Room: 520A**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Coevolution III**

2:30 PM	<b>Verónica Rincón-Rubio</b>	<i>Exploring Carotenoid Colors: Insights into Evolutionary Dynamics in Passerine Birds</i>
2:45 PM	<b>Juliana Soto</b>	<i>Evolution of endosymbionts in feather lice: Understanding patterns of bacterial acquisition</i>
3:00 PM	<b>Christophe Patterson</b>	<i>Multivariate trait evolution of a seasonal polyphenism at the continental scale.</i>
3:15 PM	<b>Justin Merondun</b>	<i>Matrilineal capture ensures stable inheritance and phenotypic innovation in egg mimicry arms race</i>
3:30 PM	<b>Jason Pienaar</b>	<i>Coevolution, diversification, and the phylogenetic comparative method</i>



**Room: 520B**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Conservation genetics across multiple species**

2:30 PM	<b>Madeline Eppley</b>	<i>Combining insights from contemporary range-wide population genetic structure and historic DNA to inform conservation of the eastern oyster (<i>C. virginica</i>)</i>
2:45 PM	<b>Rebekah Rogers</b>	<i>Genome Evolution in an Endangered Freshwater Mussel</i>
3:00 PM	<b>Erin Voss</b>	<i>Exploring patterns of genomic diversity across three threatened species of kangaroo rats (<i>Dipodomys</i>) in California</i>
3:15 PM	<b>Andrew Black</b>	<i>Rapid vertebrate speciation via isolation, bottlenecks, and drift</i>
3:30 PM	<b>Joseph Orkin</b>	<i>Ecological and anthropogenic effects on the genomic diversity of lemurs in Madagascar</i>



**Room: 520C**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Mitochondrial functional genomics and evolution**

2:30 PM	<b>Florencia Camus</b>	<i>Consequences of the maternal inheritance of the mtDNA genome on life-history trait evolution</i>
3:00 PM	<b>Don Stewart</b>	<i>The Transition from Dioecy to Hermaphroditism and Related Effects Associated with Doubly Uniparental Inheritance of mtDNA in Freshwater Mussels</i>
3:15 PM	<b>Debora Princepe</b>	<i>Nuclear compensatory evolution driven by mito-nuclear incompatibilities</i>
3:30 PM	<b>Erik Iverson</b>	<i>Ecological speciation &amp; mitonuclear co-adaptation on elevation gradients</i>



**Room: 520D**

**2:30 PM - 3:45 PM**

**Saturday, July 27**

**Evolutionary dynamics of animal-microbe symbioses**

2:30 PM	<b>Daniel Wong</b>	<i>High-resolution lineage tracking of within-host evolution and transmission of a human gut symbiont across ecological scales</i>
2:45 PM	<b>Chris Robinson</b>	<i>Missed Connections: Using HiC-sequencing to explore the interactions and population genomics of bacteria and mobile genetic elements within the honey bee worker microbiome</i>
3:00 PM	<b>François Renoz</b>	<i>Two-way cooperation in a single symbiotic organ: the developmental chronicle of a multi-partner insect endosymbiosis</i>
3:15 PM	<b>Samantha Goldman</b>	<i>Diet-mediated adaptive evolution in the mouse gut microbiome</i>
3:30 PM	<b>Madalena V. F. Real</b>	<i>Stressor-specific gut microbiota and behavioral responses in wild-derived mice (<i>Mus musculus domesticus</i>)</i>



# SATURDAY, JULY 27: AFTERNOON BREAK

## LGBTQ+ Networking mixer

**Room: 725**

**3:45 PM - 4:15 PM**

Break out smaller group networking opportunities, during regular break times, but in a different space.  
(Preregistration not required. Coffee/Tea/Snacks included.)

## Coffee break

**Room: 220DE**

**10:45 AM - 11:15 AM**

Coffee, Tea, Water & Snacks

Exhibitor Booths:

- ASN/SSB/SSE/ESEB Grad Committees
- BES - British Ecological Society
- DataClassroom
- Joint Diversity Committee
- Journal of Evolutionary Biology
- Oikos
- Oxford University Press
- Princeton University Press
- Royal Society Publishing
- SSE Journals
- SSE Public Policy
- SySTEM BIO-LEAPS
- University of Chicago Press
- US National Science Foundation
- Vanderbilt University
- Yale University Press





**Room: 516A**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Adaptation IV**

4:15 PM	<b>Veronika Lipánová</b>	<i>Genomic basis of soil adaptation in the alpine carnation and range expansion facilitated by pleiotropy</i>
4:30 PM	<b>Joanna Rifkin</b>	<i>Genetic signatures of drought adaptation in sorghum</i>
4:45 PM	<b>Swapna Subramanian</b>	<i>Hanseniaspora uvarum local adaptation/maladaptation drives yeast community performance in Connecticut apple orchards and varieties</i>



**Room: 520E**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Macroevolution IV**

4:15 PM	<b>Orlando Schwery</b>	<i>Standing on the shoulders of giants: studying adaptive radiations while building on previous findings properly</i>
4:30 PM	<b>Andrea Halling</b>	<i>Does Multicellularity Have a Unique Isotopic Signature?</i>
4:45 PM	<b>Sean McHugh</b>	<i>Modeling continuous fundamental and realized niche evolution</i>
5:00 PM	<b>Tiago Simoes</b>	<i>Assessing congruence and conflicts in geometric morphometrics vs phylogenetic data for inferring rates of phenotypic evolution in deep time: a case study on squamates</i>



**Room: 520F**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Population genetics II**

4:15 PM	<b>Carl St. John</b>	<i>Repeated genetic convergence associated with life history of a long-lived fish</i>
4:30 PM	<b>Pavel Dimens</b>	<i>Inversions and patterns of divergence among populations of an imperiled anadromous fish as revealed by inexpensive linked-read data</i>
4:45 PM	<b>Sozos Michaelides</b>	<i>Eco-evolutionary processes fuel intraspecific variation in sympatric lake trout (<i>Salvelinus namaycush</i>) populations in Great Bear Lake</i>
5:00 PM	<b>Maria Cadiz</b>	<i>Diving into the life history and genetic diversity of a large Atlantic salmon (<i>Salmo salar</i>) population from northernmost Europe</i>
5:15 PM	<b>Remy Gatins</b>	<i>Chromosome-level genome assembly reveals high connectivity and a history of population bottlenecks in a range-expanding commercial species, Black Sea Bass (<i>Centropristis striata</i>)</i>



**Room: 523AB**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Ecological genetics I**

4:15 PM	<b>Thomas Bataillon</b>	<i>The genetic architecture of an adaptive phenotype and the predictability of evolutionary response to climate change</i>
4:30 PM	<b>Cathy Rushworth</b>	<i>Investigating the role of heterosis in Boechera hybrids</i>
4:45 PM	<b>Amanda Peake</b>	<i>The genetic basis of complex traits in an overwintering Arabidopsis thaliana common garden</i>
5:00 PM	<b>Maria Jose Gomez Quijano</b>	<i>Fitness and genetic effects of phenological and geographical non-random mating under environmental stress.</i>
5:15 PM	<b>James Santangelo</b>	<i>Genome-wide signatures of selection associated with urbanization in a cosmopolitan plant</i>



**Room: 524A**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Genomics IV**

4:15 PM	<b>Javier Sala-Garcia</b>	<i>Origin and genomic basis of the rapid post-glacial radiation in the dark-eyed juncos of North America</i>
4:30 PM	<b>Maegwin Bonar</b>	<i>Genomic insights into the local adaptation of eastern gray squirrels (<i>Sciurus carolinensis</i>) to urban and rural environments</i>
4:45 PM	<b>Tyler Kent</b>	<i>Demographic history and linked selection in the globally invasive mosquito <i>Aedes aegypti</i></i>
5:00 PM	<b>Melanie Brien</b>	<i>Wing colour polymorphism in the wood tiger moth: genetic architecture and population genomics.</i>
5:15 PM	<b>Maria Akopyan</b>	<i>Demographic histories and recombination landscapes of divergent fox lineages</i>



**Room: 524B**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Evolutionary and ecological consequences of considering the environment as an extended phenotype**

4:15 PM	<b>Erol Akcay</b>	<i>Cultural evolution of overwork: the floating duck syndrome</i>
4:30 PM	<b>Iris Prigent</b>	<i>Ecological Inheritance Promotes the Coexistence of Environmental Helpers and Defectors</i>
4:45 PM	<b>Oleksii Dubovyk</b>	<i>Effects of dispersal and spatial configurations in environmental conditions explain composition of ecological communities under trait-based environmental filtering</i>
5:00 PM	<b>Julien Martin</b>	<i>Habitat as an extended phenotype: an analytical approach</i>



**Room: 524C**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Gene expression III**

4:15 PM	<b>Eniolaye Balogun</b>	<i>The effects of de novo mutation on gene expression and the consequences for fitness in Chlamydomonas reinhardtii</i>
4:30 PM	<b>Helen Stec</b>	<i>The interplay between reproductive state and gene expression driving mate choice in Poecilia reticulata</i>
4:45 PM	<b>Justin Bernstein</b>	<i>Integrating RNAseq data into genome-scale studies of rattlesnake hybrid zones to understand the biological basis of incompatibilities and multilocus effects</i>
5:00 PM	<b>Katya Mack</b>	<i>Gene-environment interactions for gene expression and climate adaption in house mice</i>
5:15 PM	<b>Gleb Ebert</b>	<i>Parallel Evolution Does Not Improve the Predictability of the Transcriptional Response to Heat Stress</i>



**Room: 525AB**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Experimental evolution III**

4:15 PM	<b>Tia Harrison</b>	<i>Impacts of genomic content on the experimental evolution of multipartite rhizobial genomes</i>
4:30 PM	<b>Tyler Larsen</b>	<i>Uncovering symbiotic microbial adaptations by evolving them away</i>
4:45 PM	<b>Beatriz Baselga Cervera</b>	<i>Cyanobacteria and their heterotrophs; temporal and functional interactions in a SynCom experiment.</i>
5:00 PM	<b>Sarah Worthan</b>	<i>pH-sensitive global regulator alleles alter metabolism and increase survival in experimentally evolved <i>Escherichia coli</i> populations.</i>
5:15 PM	<b>Christina Burch</b>	<i>Bacteriophage evolution experiments in the era of ultra-long read sequencing</i>





**Room: 518B**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

### **Evolutionary theory III**

4:15 PM	<b>Naomi Greenberg</b>	<i>Remote-control meiotic drive of sex chromosomes: Modeling a trans-acting meiotic driver that can enable Y- and O-Chromosome drive to skew population sex ratios and aid evolutionary transitions in sex determination systems</i>
4:30 PM	<b>Juliette Luiselli</b>	<i>Forward-in-time simulation of chromosomal rearrangements: The invisible backbone that sustains long-term adaptation</i>
4:45 PM	<b>Thomas Lesaffre</b>	<i>An adaptive hypothesis for the prevalence XY over ZW sex determination when dioecy evolves from hermaphroditism</i>
5:00 PM	<b>Janna Fierst</b>	<i>Regulatory logic can stabilize transposon dynamics in nematode worm genomes</i>
5:15 PM	<b>Thomas Hitchcock</b>	<i>Paternal genome elimination, monogenic reproduction, and the evolutionary genetics of atypical sex chromosome systems</i>



**Room: 519AB**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Computational biology I**

4:15 PM	<b>Nicolas Dibot</b>	<i>Attractiveness of facial femininity in a non-human primate: a Generative AI-based experimental approach</i>
4:30 PM	<b>Isaiah Jordan</b>	<i>Can "phenotypic seed banks" generate selective advantages?</i>
4:45 PM	<b>Wan He</b>	<i>Leveraging hypergraph structures for improved scRNA-seq data clustering with random walks</i>
5:00 PM	<b>Reese Martin</b>	<i>The relationship between pleiotropy and gene age across eukaryotes</i>
5:15 PM	<b>Art Poon</b>	<i>An untethered model of extinction by mutation accumulation: what if the distribution of fitness effects depends on fitness?</i>



**Room: 516B**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Adaptive epigenetics**

4:15 PM	<b>Eleanore Ritter</b>	<i>The role of clonal reproduction in shaping DNA methylation patterns across flowering plants</i>
4:30 PM	<b>Arunkumar Ramesh</b>	<i>Deciphering population evolutionary history using plant DNA methylation: Insights from Arabidopsis and Brachypodium</i>
4:45 PM	<b>Hannah Waterman</b>	<i>The role of DNA methylation in shaping genome evolution following whole genome duplication: insight from catostomid fishes</i>
5:00 PM	<b>Paula Escuer Pifarre</b>	<i>Exploring the epigenetic landscape across Lepidoptera and its impact on chromosomal rearrangements</i>
5:15 PM	<b>Juntao Hu</b>	<i>Epigenetics in natural animal populations</i>



**Room: 516C**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Ecology and the evolution of reproductive traits**

4:15 PM	<b>Jeff Shima</b>	<i>Reproductive phenology and offspring sex: how spawning on different phases of the moon shapes environmental sex determination in a coral reef fish</i>
4:30 PM	<b>Chedhawat Chokechaipaisarn</b>	<i>Density-dependent dispersal promotes female-biased sex allocation and reduces sex-ratio conflict in viscous populations</i>
4:45 PM	<b>James Gallagher</b>	<i>An evolutionary snowball: rapid and recent increase in sexual signal variation in a Hawaiian cricket</i>
5:00 PM	<b>Kuangyi Xu</b>	<i>When does sexual selection deplete or exaggerate genetic variation? A formal analysis of the lek paradox</i>
5:15 PM	<b>Jessica Stephenson</b>	<i>Infection affects guppy reproductive fitness and offspring parasite resistance</i>



**Room: 516D**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Networks in population genetics and phylogenetics: theory, methods and applications**

4:15 PM	<b>Nathan Kolbow</b>	<i>Massively scalable inference of phylogenetic networks</i>
4:30 PM	<b>Thore Koppetsch</b>	<i>Towards reliable detection of introgression in the presence of among-species rate variation</i>
4:45 PM	<b>John Rhodes</b>	<i>Beyond level-1: Identifying phylogenetic network features</i>
5:00 PM	<b>Abigail Sequeira</b>	<i>Using a haplotype-based method to detect selective sweeps in ancient human genomic data</i>
5:15 PM	<b>Daniel Huson</b>	<i>The SplitsTree~App: interactive exploration of phylogenetic trees and networks</i>



**Room: 516E**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Biogeography IV**

4:15 PM	<b>Nataliia Kopchak</b>	<i>Molecular biogeography of the high elevation Andean buckeye butterfly (<i>Junonia vestina</i>)</i>
4:30 PM	<b>Madeleine Robitaille</b>	<i>Using environmental DNA to map a contact zone between deeply diverged frog mitochondrial lineages in Southern Ontario</i>
4:45 PM	<b>Katie Sanbonmatsu</b>	<i>Phylogenetic and biogeographic patterns in sequencing deficiency across vascular plants</i>
5:00 PM	<b>Laymon Ball</b>	<i>Disentangling drivers of evolution in a florally diverse Neotropical plant clade, Hillieae (<i>Rubiaceae</i>)</i>
5:15 PM	<b>Millke Morales</b>	<i>Population genomics of <i>Ischnothele annulata</i> (Araneae, Mygalomorphae) along the Brazilian Diagonal of Open Formations</i>



**Room: 520A**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Coevolution IV**

4:15 PM	<b>Jasper Chao</b>	<i>Bacterial gene function in north american vultures</i>
4:30 PM	<b>Markella Moraitou</b>	<i>Exploring oral microbiome evolution in mammals using museum specimens</i>
4:45 PM	<b>Maya Shaulsky</b>	<i>Unique Microbiomes Support Photosymbiosis</i>
5:00 PM	<b>Senne Heeren</b>	<i>Parasite evolution through the lens of a unique microbial alliance</i>
5:15 PM	<b>Gabriella Panayotakis</b>	<i>Establishing an Early Earth-Like Microbial Bioreactor to Study the Evolution of Multi-Species Interactions</i>



**Room: 520B**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Coinfections in the light of coexistence theory**

4:15 PM	<b>Ann Tate</b>	<i>The mode of within-host competition among coinfecting parasites influences competition outcomes among host species</i>
4:30 PM	<b>Arun Prakash</b>	<i>Disentangling the contributions of development and niche adaptation during health and disease outcomes</i>
4:45 PM	<b>Mike Blazanin</b>	<i>Species diversity supports host-parasite coexistence in microbial communities</i>
5:00 PM	<b>Vandana Gupta</b>	<i>To be facilitated or not – Does it depends on if you infect a novel or an already occupied host?</i>
5:15 PM	<b>Maria Cortazar-Chinarro</b>	<i>The Major Histocompatibility Complex modulates <i>Batrachochytrium dendrobatidis</i> and <i>Ranavirus</i> infections in three amphibian species</i>





**Room: 520C**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Challenging the status quo: exploring how species interactions respond to human change**

4:15 PM	<b>Pryce Millikin</b>	<i>Investigating the Effects of Climate Change on the Coevolutionary Relationship between Yucca Moths and Joshua Trees</i>
4:30 PM	<b>Wissam Jawad</b>	<i>Predation, climate change, and thermoregulation - strategies to persist in warming habitats</i>
4:45 PM	<b>Jennifer Harris</b>	<i>Evaluating the impacts of extensive cover cropping in agriculture on legume-rhizobia mutualism.</i>
5:00 PM	<b>Mariana P Braga</b>	<i>Inferring the distribution of interactions: bringing evolution into models of joint species distribution</i>
5:15 PM	<b>Diogo Prino Godinho</b>	<i>Limits to the adaptation of spider mites to environmental stress, in homogeneous and heterogeneous environments</i>



**Room: 520D**

**4:15 PM - 5:30 PM**

**Saturday, July 27**

**Evolutionary dynamics of animal-microbe symbioses**

4:15 PM	<b>Muhammad Bilal Haider</b>	<i>Friend or Foe: Unravelling the genetic complexities of host control over beneficial microbes</i>
4:30 PM	<b>Felipe Kauai Pereira</b>	<i>Wolbachia infection persistence in haplodiploid populations: Reciprocal effects of symbiont-induced reproductive phenotypes and polygenic host suppression systems</i>
4:45 PM	<b>Tatsuya Inagaki</b>	<i>Disrupting an intimate and long-standing symbiotic relationship: artificial manipulation of protist community composition in termite gut</i>
5:00 PM	<b>Jeric Da-Anoy</b>	<i>Symbiosis-mediated regulation of innate immunity in <i>Exaiptasia diaphana</i> following heat and nutrient exposure</i>
5:15 PM	<b>Natalie Steinel</b>	<i>Host-parasite Co-evolution: the Cestode, <i>Schistocephalus solidus</i>, Modulates Threespine Stickleback (<i>Gasterosteus aculeatus</i>) Splenic Melanomacrophage Centers and B/T cells.</i>



Saturday, July 27

**Poster Session 1**

**Room: 220 DE: 5:45 PM - 8:15 PM**

All welcome

Includes: Appetizers

For purchase: Drinks

**Exhibitor Booths:**

- ASN/SSB/SSE/ESEB Grad Committees
- BES - British Ecological Society
- DataClassroom
- Joint Diversity Committee
- Journal of Evolutionary Biology
- Oikos
- Oxford University Press
- Princeton University Press
- Royal Society Publishing
- SSE Journals
- SSE Public Policy
- SySTEM BIO-LEAPS
- University of Chicago Press
- US National Science Foundation
- Vanderbilt University
- Yale University Press



Saturday, July 27

**Poster Session 1**

**Room: 220 DE: 5:45 PM - 8:15 PM**

Poster Board A1 (27th)	<b>Vanessa Leon-Gamez</b>	<i>UDE: Same play, different way: recurrent loss of sexual signals in a field cricket</i>
Poster Board A2 (27th)	<b>Ashley Rogers</b>	<i>UDE: Alexander Winchell: Scientific Discovery in the Age of Scientific Racism</i>
Poster Board A3 (27th)	<b>Yeissette Burgos Amengual</b>	<i>UDE: Identification of Microbial Factors Influencing Mucous Toxin Secretions of Invasive Cuban Tree Frogs (<i>Osteopilus septentrionalis</i>)</i>
Poster Board A4 (27th)	<b>Noé Reyna</b>	<i>Coming to one's senses: Stickleback molecular processing and neuroanatomy vary across environments</i>
Poster Board A5 (27th)	<b>Anisa Robinson</b>	<i>Impacts of Ecological Context on Natural Selection and Genetic Correlations in the Legume-Rhizobia Mutualism</i>
Poster Board A6 (27th)	<b>Scarlet Taveras Guzman</b>	<i>The Survival Guide: Salinity and Heavy Metal Tolerance Analysis in <i>Salicornia Depressa</i></i>
Poster Board A7 (27th)	<b>Juanita Adriana Bailey</b>	<i>Pesticide Degradation Through The Free-Living Bacteria <i>Caballeronia</i></i>



Poster Board A8 (27th)	<b>Jenasis Campbell</b>	<i>The Effect of Settling vs. Relaxed Selection on Ploidy and Cluster Size in Saccharomyces cerevisiae (Baker's yeast).</i>
Poster Board A9 (27th)	<b>Jamie Baker</b>	<i>UDE: Role of visual signaling in cooperative antipredator behavior in guppies</i>
Poster Board A10 (27th)	<b>Rose Ochoa</b>	<i>Testing Hypotheses About Correlations Between the Purine-Pyrimidine Strand Bias of Bacteriophage Pathogens and Their Bacterial Hosts</i>
Poster Board A11 (27th)	<b>Germaine DelValle Mottershead</b>	<i>UDE Temporal diversification and evolutionary history of the cribellum in Marronoid spiders</i>
Poster Board A12 (27th)	<b>Elanor Fuller</b>	<i>UDE - Domesticating Ayahuasca: Ethnobotany and Phylogeography of Psychotria viridis</i>
Poster Board A13 (27th)	<b>Silas Hicks</b>	<i>UDE: Evolution of fission rates of groups of social species</i>
Poster Board A14 (27th)	<b>Tara McGruder</b>	<i>UDE: Analyzing the Influence of Abiotic Factors on Floral Coloration and Morphological Traits in Clarkia pulchella</i>
Poster Board A15 (27th)	<b>Alexangel Nunez</b>	<i>UDE: Evolutionary genetics of invasive Anolis equestris populations</i>
Poster Board A16 (27th)	<b>Curtis Lawrence III</b>	<i>UDE - Using Jaw Morphology to Identify Ecomorph Affinities in Jamaican Anolis lizards</i>



Poster Board A17 (27th)	<b>Nelly Batista Delgado</b>	<i>UDE: A non-invasive micro-morphological approach for quantifying diversity of scleractinian Madracis corals in Curaçao</i>
Poster Board A18 (27th)	<b>David Canseco Vielma</b>	<i>UDE: Into The Spider Bite: Exploring Morphological Variation and Evolutionary Shift in Chelicerae.</i>
Poster Board A19 (27th)	<b>Ayumi Tsuyuki</b>	<i>Systems analysis of hypoxia and metabolism gene regulatory networks</i>
Poster Board A20 (27th)	<b>Madeline Toomey</b>	<i>Identifying signatures of climate adaptation in silver banksia, Banksia marginata</i>
Poster Board B1 (27th)	<b>Emily Weintraub</b>	<i>Local adaptation in an extreme generalist insect herbivore: a cross-continental experiment</i>
Poster Board B2 (27th)	<b>Justine Floret</b>	<i>Characterizing experimentally the limits of the natural urban niche of Arabidopsis thaliana</i>
Poster Board B3 (27th)	<b>Nemo Valentin Robles</b>	<i>Exploring recent evolution of matrotrophy in swordtails (Xiphophorus)</i>
Poster Board B4 (27th)	<b>John Nguyen</b>	<i>Ecological correlates, genetics, and maintenance of a female-limited polymorphism in the slender anole (Anolis apoletophallus)</i>
Poster Board B5 (27th)	<b>Isabella Bautista</b>	<i>Rhodopsin-mediated penguin vision adaptation to extreme conditions</i>



Poster Board B6 (27th)	<b>Ariana Walczyk</b>	<i>Promoting Rapid Evolution of Drought Tolerance in Perennial Grasses with Assisted Gene Flow and Autogamy Selection</i>
Poster Board B7 (27th)	<b>Gleb Ebert</b>	<i>Hypermuation and Fluctuating Stress Levels Can Enable Evolutionary Rescue</i>
Poster Board B8 (27th)	<b>Austin Vick</b>	<i>Type two diabetes adaptation through behavioral regulation in <i>D.melanogaster</i></i>
Poster Board B9 (27th)	<b>Jordan Lewis</b>	<i>Exploring tradeoffs between virulence and host defense in <i>Pseudomonas aeruginosa</i></i>
Poster Board B10 (27th)	<b>Sarah Nicholls</b>	<i>Using RNA Sequencing to Examine the Dehydration Response in the Hypothalamus and Pituitary Gland of a Desert-Adapted Mouse</i>
Poster Board B11 (27th)	<b>Max Sprute</b>	<i>Testing for adaptation to a climatic gradient in an insular endemic lizard</i>
Poster Board B12 (27th)	<b>Eliza Bufferd</b>	<i>Genetic Variation in Heat Tolerance within the <i>Drosophila melanogaster</i> Genomic Reference Panel (DGRP)</i>
Poster Board B13 (27th)	<b>Andrea Calderon Brito</b>	<i>Local adaptations in Ecuadorian bat communities</i>
Poster Board B14 (27th)	<b>Andrew Mason</b>	<i>Molecular mechanisms underlying early functional divergence in snake venom inferred from the genomes of two pitviper lineages</i>



Poster Board B15 (27th)	<b>Jill Love</b>	<i>Phenotypic plasticity in <i>Mimulus laciniatus</i>: critical photoperiod and leaf shape</i>
Poster Board B16 (27th)	<b>Amin Ghane</b>	<i>Genomic drivers of New Caledonian persimmon adaptive radiation</i>
Poster Board B17 (27th)	<b>Andrea Turcu</b>	<i>Determining the spatial scale of natural selection in a metapopulation of high elevation monkeyflowers (<i>Mimulus guttatus</i>).</i>
Poster Board B18 (27th)	<b>Maria del Pilar Herrera Egoavil</b>	<i>Comparative study of recent contact zone of tree species in Scandinavia</i>
Poster Board B19 (27th)	<b>Daniel Hooper</b>	<i>Diversifying selection and adaptive introgression of carotenoid-processing genes underlie the evolution of bill color in the long-tailed finch</i>
Poster Board B20 (27th)	<b>Jenna LeBlanc</b>	<i>Could giving grass seeds the cold shoulder be the key to restoring disturbed native grasslands?</i>
Poster Board C1 (27th)	<b>Ana L. Salgado</b>	<i>Phenotypic responses to drought stress in a perennial herb at its northern range margin</i>
Poster Board C2 (27th)	<b>Iris Menéndez</b>	<i>Aridity, and not grassland expansion, triggered rapid evolution of North American squirrels</i>
Poster Board C3 (27th)	<b>Mu-Han Chen</b>	<i>Environmental stress responses of a facultatively symbiotic coral to heat and light challenges</i>
Poster Board C4 (27th)	<b>Danilo Amaral</b>	<i>Investigating Mechanisms of Osmoregulation in Elateroidea Using RNA-Seq Datasets</i>





Poster Board C5 (27th)	<b>Luke Proud</b>	<i>Characterizing the feeding preference of DGRP lines of <i>Drosophila</i></i>
Poster Board C6 (27th)	<b>Anna Fijarczyk</b>	<i>From common gardens to genes, to microbiomes. What's driving local climate adaptation in black spruce?</i>
Poster Board C7 (27th)	<b>Rose Keith</b>	<i>Genetic variation for fitness and growth at fine spatial scales in <i>Boechera stricta</i></i>
Poster Board C8 (27th)	<b>Megan Hemmerlein</b>	<i>Developmental origins of adaptation to high elevation in the deer mouse placenta</i>
Poster Board C9 (27th)	<b>Alexis Heckley</b>	<i>Behaviour is associated with movement in wild populations of threespine stickleback (<i>Gasterosteus aculeatus</i>)</i>
Poster Board C10 (27th)	<b>Matt Peroš</b>	<i>"Hey neighbor!": Do bluegill sunfish use color to communicate social status to neighbors in mating colonies?</i>
Poster Board C11 (27th)	<b>Hongmei Li-Byarlay</b>	<i>Search for the molecular basis of parent effects on aggression in social honey bees</i>
Poster Board C12 (27th)	<b>Taylor Black</b>	<i>Influences of vasotocin and agonist hormones in fish species with varied parental care.</i>
Poster Board C13 (27th)	<b>Samuel Snow</b>	<i>Deweaponization: remodeling costly coercion via mate choice</i>



Poster Board C14 (27th)	<b>Darra Boyer</b>	<i>Developmental stress and tutor song complexity may interact to affect juvenile song learning in zebra finches</i>
Poster Board C15 (27th)	<b>Isabelle Mendoza</b>	<i>Gene variants in hormonal pathways associated with the evolution of parental care in darters</i>
Poster Board C16 (27th)	<b>Lauren Wols</b>	<i>Copulation duration as a potential reproductive barrier in hybridizing <i>Chrysochus</i> leaf beetles</i>
Poster Board C17 (27th)	<b>Jarome Ali</b>	<i>The function of conspicuous primate natal coloration: an experimental approach</i>
Poster Board C18 (27th)	<b>Yeshoda Harry-Paul</b>	<i>The evolution of heat tolerance in <i>Chlamydomonas reinhardtii</i></i>
Poster Board C19 (27th)	<b>Tolulope Babalola</b>	<i>Mating pool return rates and female competitive investment in a role reversed dance fly</i>
Poster Board C20 (27th)	<b>Lixing Sun</b>	<i>The evolution of social mobility</i>
Poster Board D1 (27th)	<b>Bharat Ahuja</b>	<i>Towards greater similarity: evidences from phenotypic assortment in mixed-species reef fish groups</i>
Poster Board D2 (27th)	<b>Brynn Johnson</b>	<i>The effect of mate choice, competition, and physiology on hybrid swarm dynamics in darters (<i>Etheostoma</i> sp.)</i>
Poster Board D3 (27th)	<b>Lukas Westermann Salas</b>	<i>The Chemical Communication of Age in Forked Fungus Beetles</i>
Poster Board D4 (27th)	<b>Alex Skeels</b>	<i>Expansion of dry biomes in Australia and the incendiary radiation of an iconic plant group</i>



Poster Board D5 (27th)	<b>Isa Eloá de Freitas Poloni</b>	<i>Genome sizes and data gaps in species from Brazilian biomes</i>
Poster Board D6 (27th)	<b>Alejandra Arana Salinas</b>	<i>Environmental drivers of avian taxonomic and phylogenetic diversity in the Peruvian Amazonia</i>
Poster Board D7 (27th)	<b>Sarah Kingston</b>	<i>Marine Molecular Ecology: Experiential Education at Sea</i>
Poster Board D8 (27th)	<b>Ericka griggs</b>	<i>Prevalence and Diversity of Malaria Parasites in First-Year Peregrine Falcons (<i>Falco peregrinus</i>)</i>
Poster Board D9 (27th)	<b>Tyler Muller</b>	<i>Reticulate speciation in Pirate Perches</i>
Poster Board D10 (27th)	<b>David Tan</b>	<i>PleistoDist: A toolbox for visualising and quantifying the effect of sea-level change on island archipelagos</i>
Poster Board D11 (27th)	<b>Zahra Salehimoghaddam</b>	<i>Unlocking Nature's Secret Weapon: Harnessing phage-rhizobia interactions to promote sustainable agriculture</i>
Poster Board D12 (27th)	<b>Manu Ramalho</b>	<i>Exploring Host-Microbe Interactions in Ants</i>
Poster Board D13 (27th)	<b>Catherine Ogoma</b>	<i>From Maples to Ferns: Unveiling the secrets behind leaf shape architecture in Monkey flowers</i>
Poster Board D14 (27th)	<b>Yi Peng Toh</b>	<i>Antennal lobe evolution in Neotropical Heliconiini butterflies</i>



Poster Board D15 (27th)	<b>Zoë Müller</b>	<i>The role of lineage and natural history in the evolution of the vomeronasal type-2 receptor gene family in squamates</i>
Poster Board D16 (27th)	<b>Samantha Rutledge</b>	<i>The structure, reflectance, and ecogeographical associations of iridescent plumage in Sturnidae</i>
Poster Board D17 (27th)	<b>Quinn McCallum</b>	<i>Comparative phylogeography of <i>Polylepis</i>-associated birds</i>
Poster Board D18 (27th)	<b>Elkin Tenorio</b>	<i>Exploring the adaptive and neutral divergence of bird communities along elevational gradients</i>
Poster Board D19 (27th)	<b>Sofia Granados Martinez</b>	<i>The comparative phylogeography of Pan-Amazonian poison frogs (<i>Anura: Dendrobatidae: Ameerega, Ranitomeya</i>): Historical processes that contribute to the structure and spatial distribution of genetic diversity</i>
Poster Board D20 (27th)	<b>Sigournie Brock</b>	<i>Understanding Associations Between Pathogenicity and Transmission Dynamics In Avian Influenza</i>
Poster Board E1 (27th)	<b>Meridia Jane Bryant</b>	<i>Standardizing the search for taxon restricted genes with RAVeN</i>
Poster Board E2 (27th)	<b>Sophie-Luise Heidig</b>	<i>Investigating evolutionary trajectories of proteins in marine <i>Synechococcus cyanobacteria</i></i>
Poster Board E3 (27th)	<b>Michael McKibben</b>	<i>Genes Originating from Paleopolyploidy Are Frequently Overrepresented In Candidate Domestication Gene Lists</i>



Poster Board E4 (27th)	<b>Miles Garvin</b>	<i>Genomic Investigation of Social Behavior in <i>Veromessor Pergandei</i></i>
Poster Board E5 (27th)	<b>Hannah Farmer</b>	<i>Nucleotide diversity and IUCN Red List status in salamanders</i>
Poster Board E6 (27th)	<b>Saismit Naik</b>	<i>Eco-evolutionary dynamics of temperature niche evolution during range expansions <b>WITHDRAWN</b></i>
Poster Board E7 (27th)	<b>Katharine Walls</b>	<i>Does avian longevity affect birdsong evolution?</i>
Poster Board E8 (27th)	<b>Benjamin Haller</b>	<i>SLiM 4: evolutionary simulation software</i>
Poster Board E9 (27th)	<b>MaryGracy Antony</b>	<i>Harnessing Plasmids: Exploring Antibiotic Resistance in Community Biomedical Research</i>
Poster Board E10 (27th)	<b>Evan Roybal</b>	<i>Artisanal and small-scale gold mining causes changes in vertebrate biodiversity in the Peruvian Amazon</i>
Poster Board E12 (27th)	<b>Hana Thompson</b>	<i>Investigating variation in fecundity in conservation breeding programs</i>
Poster Board E13 (27th)	<b>Catalina Palacios</b>	<i>Population genomics studies of the invasive vampire fly (<i>Philornis downsi</i>) in the Galapagos Islands</i>
Poster Board E14 (27th)	<b>Mojgan Ezadian</b>	<i>Developing a continuous-time model to correct for selection in mutation accumulation experiments</i>
Poster Board E15 (27th)	<b>Anoob Prakash</b>	<i>Seeds of hope. Sprucing up forest restoration with genomics</i>



Poster Board E16 (27th)	<b>Michael Yuan</b>	<i>Landscape genomics and ecology of a threatened island endemic, <i>Anolis pogus</i></i>
Poster Board E17 (27th)	<b>Sarah Sanderson</b>	<i>Rapid trait changes of populations in nature</i>
Poster Board E18 (27th)	<b>Francis Dinh</b>	<i>Black and Gray: A Survey of Squirrel Color Variation in the Montreal Area</i>
Poster Board E19 (27th)	<b>Velda Lauringson</b>	<i>Human learning and paternal investment</i>
Poster Board E20 (27th)	<b>Alia Whiles</b>	<i>Daphnia devel-EYE-ment: A comparative analysis of compound eye size growth among <i>Daphnia</i> species</i>
Poster Board F1 (27th)	<b>Sindhu Bala</b>	<i>Effects of an Endocrine Disrupting Chemical on Sea Urchin Larval Development and Survival</i>
Poster Board F2 (27th)	<b>Christopher Zdyski</b>	<i>First Turtle Organoids - a Model for Ecology, Evolution, and Biomedicine</i>
Poster Board F3 (27th)	<b>Carmen Sánchez Moreno</b>	<i>Start of the start: Uncovering the origins of the canonical unit of development</i>
Poster Board F4 (27th)	<b>Claire Ramsay</b>	<i>Evolution &amp; development of ovariole number dimorphism in ants</i>
Poster Board F5 (27th)	<b>Juliana Jiranek</b>	<i>Fitness consequences of disease across an elevational gradient</i>
Poster Board F6 (27th)	<b>Maria Teresa Reinoso Perez</b>	<i>Regional population structure of the House Finch (<i>Haemorrhous mexicanus</i>) and its implications in the mycoplasma conjunctivitis epidemic</i>



Poster Board F7 (27th)	<b>Serah Osborn</b>	<i>Metabolic Pathway Stimulation Alleviates Aging Pathologies in C. elegans</i>
Poster Board F8 (27th)	<b>Baptiste Elie</b>	<i>The source of individual heterogeneity shapes infectious disease outbreaks</i>
Poster Board F9 (27th)	<b>Samantha Brotman</b>	<i>Characterizing low virulence outcomes of pathogen-host coevolution under vertical transmission</i>
Poster Board F10 (27th)	<b>Elyse Parker</b>	<i>Diversification of feeding morphologies in the adaptive radiation of Antarctic notothenioid fishes</i>
Poster Board F11 (27th)	<b>Gabriel Silva</b>	<i>Patterns of diversification of <i>Ischnothele annulata</i> (Araneae, Mygalomorphae) along the Brazilian Diagonal of Open Formations.</i>
Poster Board F12 (27th)	<b>Daniela Souza Costa</b>	<i>Diving into genomic depths: exploring cichlid fish diversity via demographic and connectivity analyses</i>
Poster Board F13 (27th)	<b>Neha Tiwari</b>	<i>How robust is BiSSE to an imperfect correlation between character states and diversification</i>
Poster Board F14 (27th)	<b>Justine Bélik</b>	<i>How DNA methylation levels change over time in the naturally isogenic mangrove rivulus? Outline of my thesis.</i>
Poster Board F15 (27th)	<b>Regan Kenia</b>	<i>Evolutionary relationships among New Jersey populations of the Northern Pine Snake</i>



Poster Board F16 (27th)	<b>Courtney Murren</b>	<i>Effect of mutation on fitness across temperature and flooding environments: a DCURE approach</i>
Poster Board F17 (27th)	<b>SUMMER VANCE</b>	<i>Social-eco-evolutionary dynamics of Los Angeles coyote populations</i>
Poster Board F18 (27th)	<b>Lee Fenuccio</b>	<i>Effects of Range Expansion on Fitness of Black Sea Bass (<i>C. striata</i>)</i>
Poster Board F19 (27th)	<b>Lily Kelleher</b>	<i>Exploring the microbiome: Taxonomic composition of bacterial communities in <i>Aphaenogaster</i> ants</i>
Poster Board F20 (27th)	<b>Chris Talbot</b>	<i>Do flowers of a color bloom together?: Patterns of, and relationships between, floral color and phylogenetics in North America</i>
Poster Board G1 (27th)	<b>Wren Farrell</b>	<i>Do low light environments drive the evolution of super white butterflies?</i>
Poster Board G2 (27th)	<b>David Matlaga</b>	<i>Influence of canopy variability on Neotropical understory herb demography: two contrasting examples</i>
Poster Board G3 (27th)	<b>Anjalie St-Louis-Hodgins</b>	<i>Breaking the first rule of fight club: Talking about the effects of body size, temperature, and interspecies interactions on burying beetle fitness</i>
Poster Board G4 (27th)	<b>Averie St.Germaine</b>	<i>Breaking up and Breaking Down: The Downstream Effects of Drought and Warming on an Insect Mutualism</i>





Poster Board G5 (27th)	<b>Jazmine Rud</b>	<i>Variation in the Rhizobia-Legume Mutualism Across the Medicago Genus</i>
Poster Board G6 (27th)	<b>William Maguire</b>	<i>New annotated genome reveals functional divergence in a polyphagous moth</i>
Poster Board G7 (27th)	<b>Jessica Underwood</b>	<i>Genetic consequences of outbreaks in forest Lepidoptera: Temporal variation in effective population size (<math>N_e</math>)</i>
Poster Board G8 (27th)	<b>Stephanny Nobre</b>	<i>Environmental characterization of the Caatinga ecoregions</i>
Poster Board G9 (27th)	<b>Steven Matzner</b>	<i>Contrasting drought tolerance and avoidance strategies constrain ranges of Asclepias species across a moisture gradient</i>
Poster Board G10 (27th)	<b>Ana-Hermina Ghenu</b>	<i>Do biotic interactions impact the stability of bacterial communities against heat?</i>
Poster Board G11 (27th)	<b>Josef Uyeda</b>	<i>The danger of a single story: How to expand evolutionary thinking to address student misconceptions across evolutionary scales</i>
Poster Board G12 (27th)	<b>Kevin Bairos-Novak</b>	<i>SORTEE: promoting open, reliable, and transparent research in ecology and evolution / SORTÉE : promouvoir une écologie et une biologie évolutive ouvertes, fiables et transparentes</i>



Poster Board G13 (27th)	<b>Madeline Eppley</b>	<i>Centering justice and belonging for progress: Queer perspectives on ineffective DEI initiatives in ecology and evolutionary biology</i>
Poster Board G14 (27th)	<b>Maria Alves-de-Lima</b>	<i>Population genomics of a Brazilian cactus restricted to limestones using target sequencing</i>
Poster Board G15 (27th)	<b>Temitope Ruth Folorunso</b>	<i>Combating the fungal pathogen <i>Lecanostica acicola</i>: using genomics to understand brown spot needle blight disease infections</i>
Poster Board G16 (27th)	<b>Irina Birskis-Barros</b>	<i>Exploring the relationships between morphological variation, dietary breadth, and patterns of extinction among Hawaiian Honeycreepers (<i>Drepanididae</i>)</i>
Poster Board G17 (27th)	<b>Luis Amador</b>	<i>Caudata macrogenetics: Species range size predicts intraspecific genetic variation in global salamanders</i>
Poster Board G18 (27th)	<b>Jack Erickson</b>	<i>Savers and spenders: Water-use strategies of two milkweed species and the consequences of their hybridization</i>
Poster Board G19 (27th)	<b>Caitlin Fisher-Reid</b>	<i>Developing an EEB Model System: Lessons Learned from the Eastern Red-Backed Salamander (<i>Plethodon cinereus</i>)</i>
Poster Board G20 (27th)	<b>Tymofii Sokolskyi</b>	<i>Evolution before life: response to selection in lipid vesicles</i>
Poster Board H1 (27th)	<b>Sevan Suni</b>	<i>Climate drives reproductive trait divergence across soil boundaries in serpentine-tolerant plants</i>



Poster Board H2 (27th)	<b>Joely Echalar Espinoza</b>	<i>Exploring the role of introgression in speciation of Australasian rodents</i>
Poster Board H3 (27th)	<b>Simón Kraemer</b>	<i>Testing the effect of plumage coloration on assortative mating and reproductive success in a rapid Seedeater radiation</i>
Poster Board H4 (27th)	<b>Aaditya Narasimhan</b>	<i>Variation in the genetic architecture along species' elevational ranges</i>
Poster Board H5 (27th)	<b>Andrea Romero</b>	<i>The Ecological Role and Evolution of Pyrrolizidine Alkaloid Production in <i>Amsinckia menziesii</i></i>
Poster Board H6 (27th)	<b>Shawn Arreguin</b>	<i>Urban in silico: Approaches to studying urban eco-evo from your computer.</i>
Poster Board H7 (27th)	<b>Margaux Bieuville</b>	<i>Many things can go wrong: integrating the disposable soma theory to a reliability framework</i>
Poster Board H8 (27th)	<b>Dylan Kaufman</b>	<i>Mechanisms underpinning female bias of operational sex ratios in a salamander population facing seasonal time constraints</i>
Poster Board H9 (27th)	<b>Alison Chen</b>	<i>Parasitism influences trading dynamics in a resource exchange mutualism</i>
Poster Board H10 (27th)	<b>Juanita Gutierrez-Valencia</b>	<i>Differences in neural gene expression associated with ecological divergence in <i>Heliconius</i> butterflies</i>



Poster Board H11 (27th)	<b>Sandra Le Bissonnais</b>	<i>Microbiota and insecticide resistance of the malaria vector <i>Anopheles gambiae</i> in urban and peri-urban environments</i>
Poster Board H12 (27th)	<b>Maria Altamirano Chavez</b>	<i>Exploring Defensive Trait Variations in <i>Medicago lupulina</i>: A Study of Secreting Trichomes</i>
Poster Board H13 (27th)	<b>Mikaela Feder</b>	<i>Influence of predation on the evolution of stress response in Trinidadian killifish (<i>Anablepsoides hartii</i>)</i>
Poster Board H14 (27th)	<b>Claire Godineau</b>	<i>The effect of inbreeding depression for competition on population growth: insights from an ecological model</i>
Poster Board H15 (27th)	<b>Bing Dong</b>	<i>Kin competition drives the evolution of earlier onset of metamorphosis</i>
Poster Board H16 (27th)	<b>Kimberly Parno</b>	<i>Evolutionary Origins of Haida Gwaii Distinctive Avifauna</i>
Poster Board H17 (27th)	<b>Brian Waldron</b>	<i>Genomic constraints in the evolvability of thermal physiology</i>
Poster Board H18 (27th)	<b>Thomas Hitchcock</b>	<i>Chimerism and altruism</i>
Poster Board H19 (27th)	<b>Claire Tracy</b>	<i>Examining the evolution of a geminate sister species pair of damselfish through physiology and genomics</i>
Poster Board H20 (27th)	<b>Jordan Sivigny</b>	<i>Variation within a transition to multicellularity</i>
Poster Board I1 (27th)	<b>Josie Elliott</b>	<i>Can I trade you for a better phage defence system?: An Experimental Evolution System to Explore CRISPR-Cas Acquisition in a Naïve Bacterial Host</i>



Poster Board I2 (27th)	<b>Gabriel Blanco</b>	<i>Male frequency showdown: Unlocking fitness secrets in C. Elegans.</i>
Poster Board I3 (27th)	<b>Catherine Clare</b>	<i>Running in place: rapid adaptation is counter-gradient to seasonal phenotypic plasticity</i>
Poster Board I4 (27th)	<b>Monica Mowery</b>	<i>Experimental evolution of resistance to parasitoids in invasive spotted-wing drosophila, Drosophila suzukii</i>
Poster Board I5 (27th)	<b>Brysyn Goodson</b>	<i>Galactose and gravity selection synergistically increase clonal multicellularity in recombinant populations of Saccharomyces cerevisiae</i>
Poster Board I6 (27th)	<b>William McLaughlin</b>	<i>Evolution of metabolic cooperation in experimental populations of Escherichia coli under resource limitation</i>
Poster Board I7 (27th)	<b>Bret Coggins</b>	<i>Rapid evolution under elevated salinity and temperature reveals phenotypic constraints in experimental Daphnia populations.</i>
Poster Board I8 (27th)	<b>Alexander Salis</b>	<i>DNA degradation in flash-frozen tissues from natural history collections</i>
Poster Board I9 (27th)	<b>Julia Canitz</b>	<i>Diving into the unknown World of Leopard Seal Genomics</i>
Poster Board I10 (27th)	<b>Ryan Biscocho</b>	<i>The role of transposable elements in animal domestication</i>



Poster Board I11 (27th)	<b>Michael Olufemi</b>	<i>Unraveling the DNA Methylation Landscape Associated with Gene Copy Number Variations</i>
Poster Board I12 (27th)	<b>Liam Friar</b>	<i>Relaxed selection and other genomic insights from the cyanobacterial symbiont of the fern Azolla</i>
Poster Board I13 (27th)	<b>Hannah Waterman</b>	<i>Tissue-specific DNA methylation in the western black widow spider (Latrodectus hesperus) informs spider development and evolution</i>
Poster Board I14 (27th)	<b>Chris Zhan</b>	<i>Identification of the genomic basis of a plastic trait in the yellow monkey flower clade Erythranthe section simiola</i>
Poster Board I15 (27th)	<b>Angela Alonso Morales</b>	<i>Genomic portrait of the emergence and fate of antibiotic resistance under different antibiotic regimes in Pseudomonas aeruginosa</i>
Poster Board I16 (27th)	<b>Finola Fogarty</b>	<i>Genomic investigation of cryptic speciation in a migratory songbird</i>
Poster Board I17 (27th)	<b>Steven Casey</b>	<i>Dragline silk gene expansion in triangle weaver spider accompanies exceptionally proline rich fibers in its spring-loaded webs</i>
Poster Board I18 (27th)	<b>Ivar Westerberg</b>	<i>Centromere evolution and genome defense in a fungal species complex</i>
Poster Board I19 (27th)	<b>Genrietta Yagudayeva</b>	<i>Unveiling the hidden diversity: using de novo transcriptomics for mitogenomic reconstruction and</i>



		<i>barcode analyses of Andean velvet worms (Onychophora)</i>
Poster Board I20 (27th)	<b>Giada Padovani</b>	<i>Polar bear evolutionary adaptation: insights from non-coding accelerated regions</i>
Poster Board J1 (27th)	<b>Kaas Ballard</b>	<i>Evidence that miRNAs contribute to snake venom composition variation within and among species, and that this can be inferred using evolutionary variation</i> <b>WITHDRAWN</b>
Poster Board J2 (27th)	<b>Zoë Humphries</b>	<i>Transposon accumulation on rapidly evolving sex chromosomes</i>
Poster Board J3 (27th)	<b>Linley Sherin</b>	<i>Using long-read RNA to investigate alternative isoform usage in the guppy genome</i>
Poster Board J4 (27th)	<b>Sophia Haase Cox</b>	<i>The genetic basis and development of a novel tailspot pattern in <i>Xiphophorus variatus</i></i>
Poster Board J5 (27th)	<b>Annabel Hughes</b>	<i>Comparing the origin and maintenance of new species via different modes of speciation in <i>Holacanthus</i> angelfishes – a genomic approach</i>
Poster Board J6 (27th)	<b>Trey Scott</b>	<i>The genome of an obligately ant associated lycaenid <i>Jalmenus evagoras</i></i>
Poster Board J7 (27th)	<b>Tessa Batterton</b>	<i>Mechanisms of variation in fitness costs of infection</i>
Poster Board J8 (27th)	<b>Natalia Grube</b>	<i>Phylogenomic inference of the genus <i>Taenia</i>: species delimitation and origins of human tapeworms</i>



Poster Board J9 (27th)	<b>Rokeya Rahman</b>	<i>The Impact of the Immunological Environment on Optimal Density-Dependent Microbial Virulence Strategies</i>
Poster Board J10 (27th)	<b>Antrelle Clark</b>	<i>Spatial distribution and diversity of comb plate amoebae along the U.S. Atlantic coast</i>
Poster Board J11 (27th)	<b>Romane Normand</b>	<i>Evolution of drought resistance traits along an aridity gradient in native and introduced populations of capeweed</i>
Poster Board J12 (27th)	<b>Vicente Fernandez Lara</b>	<i>Molecular and morphological examination of an introduced population of <i>Aspidoscelis neomexicanus</i> in Southern Utah.</i>
Poster Board J13 (27th)	<b>Iker Bargas Galarraga</b>	<i>High investment in reproduction is associated with reduced life span in dogs</i>
Poster Board J14 (27th)	<b>Darren Johnson</b>	<i>Born losers: Developmental inaccuracy and life history tradeoffs in a marine fish</i>
Poster Board J15 (27th)	<b>Katrina Pfennig</b>	<i>An Experimental Investigation of Olfactory-Based Navigation in Loggerhead Sea Turtles</i>
Poster Board J16 (27th)	<b>Dominik Kopčak</b>	<i>Diversity imbalance is pervasive across vertebrate trees</i>
Poster Board J17 (27th)	<b>Shih-Na Liu</b>	<i>Effects of diet on body shape evolution in reef fishes</i>
Poster Board J18 (27th)	<b>Hector Tejero-Cicuendez</b>	<i>Aridity modulates climatic niche breadth and phylogenetic diversity across tetrapods</i>





Poster Board J19 (27th)	<b>Geoffrey Finch</b>	<i>Post-zygotic reproductive isolation is not correlated with chromosome number in plants</i>
Poster Board J20 (27th)	<b>Nicolás Mongiardino Koch</b>	<i>But the clock, tick-tock: the preeminence of clock models in total-evidence dated phylogenetics</i>
Poster Board K1 (27th)	<b>Juan L Cantalapiedra</b>	<i>The multifaceted nature of the African megaherbivores decline</i>
Poster Board K2 (27th)	<b>Mac Borozan</b>	<i>Testing maxent PaleoENMs by comparison with present-day ENMs using the geographic distribution of sedimentary basins as a proxy for fossilization</i>
Poster Board K3 (27th)	<b>Viplav Agarwal</b>	<i>Molecular determinants of host-specific adaptation in a microbial plant pathogen</i>
Poster Board K4 (27th)	<b>Letícia Magpali</b>	<i>The genetics behind sound: phenotype-genotype evolution of acoustic genes in toothed whales</i>
Poster Board K5 (27th)	<b>Nadir Dbouk</b>	<i>Adaptive Evolution of Rhodopsin in Birds: Investigating Spectral Sensitivity and Thermal Effects in Diverse Light Environments</i>
Poster Board K6 (27th)	<b>Brittany Verrico</b>	<i>Functional analysis of HISTONE DEACETYLASE 19 and its role in Brachypodium stress adaptation</i>
Poster Board K7 (27th)	<b>Camille Block</b>	<i>Identifying potential Rdl insecticide resistance mutations across temporal scales in the common bed bug, Cimex lectularius</i>



Poster Board K8 (27th)	<b>Richard Hou</b>	<i>Assessing the genetic diversity and evolution of a recent introduced species in the Southeastern US: The Joro Spider, <i>Trichonephila clavata</i> (Araneidae)</i>
Poster Board K9 (27th)	<b>Esme Macpherson</b>	<i>Evolution of rhodopsin in flatfishes (Pleuronectiformes) is associated with depth and migratory behaviour</i>
Poster Board K10 (27th)	<b>Héloïse Muller</b>	<i>Genetic exchange networks bridge DNA vehicles in a bacterial pathogen</i>
Poster Board K11 (27th)	<b>Owen Hale</b>	<i>The Rate and Spectrum of Mutations in Lactic Acid Bacteria Cultured in Oxygen Limited Conditions</i>
Poster Board K12 (27th)	<b>Yu Uchiumi</b>	<i>evolutionary transition from partner choice-based to vertical transmission-based mutualistic symbiosis</i>
Poster Board K13 (27th)	<b>Spencer Peterman</b>	<i>Host species, not location, structures variation in the function of symbiont communities in a plant-microbe mutualism</i>
Poster Board K14 (27th)	<b>Audrey Burr</b>	<i>Climate change and context-dependency in mutualisms: Drought reduces host investment in legume-rhizobia symbiosis</i>
Poster Board K15 (27th)	<b>Phoebe Cunningham</b>	<i>Roles and regulations: nutrient provision and host regulation of symbionts in three distinct lineages of ants</i>
Poster Board K16 (27th)	<b>Chang-Yu Chang</b>	<i>Testing population divergence of a facultative symbiont across two environmental gradients</i>



Poster Board K17 (27th)	<b>Kenzie Givens</b>	<i>Microbiome transmission mode influences host capacity for adaptation</i> <b>MOVED TO 29<sup>th</sup> – B5</b>
Poster Board K18 (27th)	<b>Whitney Murchison-Kastner</b>	<i>Investigating the Genetic Basis of Phenotypic Parallelism in the <i>Mimulus guttatus</i> Species Complex</i>
Poster Board K19 (27th)	<b>Jon Merwin</b>	<i>The molecular underpinnings of phenotypic convergence in toucans and hornbills</i>
Poster Board K20 (27th)	<b>Ivalu Cacho</b>	<i>Hummingbirds as drivers of floral morphology at the species level in a Caribbean spurge</i>
Poster Board L1 (27th)	<b>Navid Bahramifarid</b>	<i>Histone epigenetic and hormonal modulation of temperature during fire ant development</i>
Poster Board L2 (27th)	<b>Olivia MacMillan</b>	<i>Epigenetics of a superorganism: interplay between miRNAs and hormones during caste development in ants</i>
Poster Board L3 (27th)	<b>Blair Christensen</b>	<i>Sublethal insecticide stress in an agricultural insect pest: the role of histone modifications in phenotypic plasticity and resistance management</i>
Poster Board L4 (27th)	<b>Mariana Lyra</b>	<i>Linking genomic variation, phenotypic change and adaptation in natural populations of the the green anole</i>
Poster Board L5 (27th)	<b>Manasee Weerathunga</b>	<i>A supermatrix phylogeny of red and green algae</i>
Poster Board L6 (27th)	<b>Chuhan Qin</b>	<i>Phylogeography and antibiotic resistance of endemic <i>Vibrio cholerae</i> in Bangladesh</i>



Poster Board L7 (27th)	<b>Holly Robertson</b>	<i>Gene tree conflict in homologous trees: case study in the carnivorous Caryophyllales</i>
Poster Board L8 (27th)	<b>Sarah Leventhal</b>	<i>Division of labor through loss of function in a cheilostome bryozoan</i>
Poster Board L9 (27th)	<b>Fabio Raposo do Amaral</b>	<i>The gray zone between population structure, species and conservation: an example with Atlantic Forest endemic Formicivora antbirds</i>
Poster Board L10 (27th)	<b>Emma Jochim</b>	<i>Speciation pattern and process in the coastal dune endemic trapdoor spider Aptostichus simus Chamberlin, 1917</i>
Poster Board L11 (27th)	<b>Christopher Blair</b>	<i>Deep divergence and limited gene flow in Greater Earless lizards throughout western North America</i>
Poster Board L12 (27th)	<b>Chris McDaniels</b>	<i>Phylogeography and systematics of Six-lined Racerunners (Aspidoscelis sexlineatus)</i>
Poster Board L13 (27th)	<b>Katherine L Stone</b>	<i>Gene regulatory network structure help us understand how complex phenotypes adapt</i>
Poster Board L14 (27th)	<b>Zahra Shafiei</b>	<i>Impact of fluctuating selection on genetic variation when new mutations are expected to be deleterious</i>
Poster Board L15 (27th)	<b>Joao Pedro Fontenelle</b>	<i>How do population outbreak cycles affect population genetic inferences?</i>
Poster Board L16 (27th)	<b>Xi Wang</b>	<i>Ecological genetics of isolated loach populations indicate compromised adaptive potential</i>



Poster Board L17 (27th)	<b>Raphaël Bouchard</b>	<i>Comparative population genomics of two distantly related salmonids reveals differential restriction to dispersal</i>
Poster Board L18 (27th)	<b>Alyson Emery</b>	<i>Population genetic diversity of <i>Gryllus pennsylvanicus</i> and <i>Gryllus firmus</i></i>
Poster Board L19 (27th)	<b>Claudie-Anne Langlois</b>	<i>Determinants of early-life telomeres length in Tree swallows</i>
Poster Board L20 (27th)	<b>Sufia Khader</b>	<i>Population genetics and clonal structure of <i>Polemonium vanbruntiae</i>, a rare wetland wildflower in Quebec</i>
Poster Board M1 (27th)	<b>Justin Conover</b>	<i>Flexible and Biologically Motivated Bayesian Priors Improve Genotyping Accuracy Along the Autopolyploid - Allopolyploid Continuum</i>
Poster Board M2 (27th)	<b>Elissa Sorojsrisom</b>	<i>shadie v1: a python wrapper for efficiently simulating genome evolution under complex life cycle models using a joint forward-time/coalescent approach</i>
Poster Board M3 (27th)	<b>Isaac Linn</b>	<i>Genetic isolation in <i>Microtus californicus</i></i>
Poster Board M4 (27th)	<b>Mason Lynch</b>	<i>Hybrid zone dynamics along a linear river system in <i>Xiphorhynchus</i> woodcreepers</i>
Poster Board M5 (27th)	<b>Jullien Flynn</b>	<i>Investigating the impacts of rapid satellite DNA evolution on reproductive development</i>



Poster Board M6 (27th)	<b>David Ho</b>	<i>Facultative parthenogenesis in whiptail lizards</i>
Poster Board M7 (27th)	<b>Max Chin</b>	<i>Reversing the ratchet: identifying putative micro-chromosomes in the Amazon molly with chromosome – scale genomics</i>
Poster Board M8 (27th)	<b>Daniela Wilner</b>	<i>How do asexual populations avoid male invasion in facultative parthenogens?</i>
Poster Board M9 (27th)	<b>Robert Driver</b>	<i>Evolution and functional characterization of olfactory receptors in birds</i>
Poster Board M10 (27th)	<b>Yihang Zhao</b>	<i>Molecular evolution of snake visual developmental genes and implications for visual adaptation</i>
Poster Board M11 (27th)	<b>Ratna Karatgi</b>	<i>From Genes to Environment: Understanding the Drivers of Sensory Trait Variation in Bluefin Killifish</i>
Poster Board M12 (27th)	<b>Logan Havard</b>	<i>Characterizing the Recombination Rate Landscape in the Mississippi Diamond-backed Terrapin (<i>Malaclemys terrapin pileata</i>)</i>
Poster Board M13 (27th)	<b>Megan Motley</b>	<i>Rpl6y as a candidate gene for primary sex determination in <i>Anolis sagrei</i></i>
Poster Board M14 (27th)	<b>Tianzhu Xiong</b>	<i>A bipartite conformation in holocentric butterfly chromosomes impedes crossover interference</i>
Poster Board M15 (27th)	<b>Amy Dapper</b>	<i>Consequences of Whole Genome Duplications on the Evolution of the Recombination Pathway in Vertebrates and Yeast</i>



Poster Board M16 (27th)	<b>Zuyao Liu</b>	<i>Unveiling the convergent and divergent evolution of sex chromosomes from comparative genomics of complete Y assemblies in stickleback fish</i>
Poster Board M17 (27th)	<b>Jie Wang</b>	<i>Sex chromosome evolution in Australian burrowing frogs <i>Neobatrachus</i></i>
Poster Board M18 (27th)	<b>Joshua Kowal</b>	<i>From Father to Son: How artificial Resolution of Intra-locus Sexual Conflict Effects Life History of <i>Drosophila Melanogaster</i></i>
Poster Board M19 (27th)	<b>Soumya Panyam</b>	<i>Blowing hot and cold: Temperature and intersexual correlations for fitness in <i>Drosophila melanogaster</i></i>
Poster Board M20 (27th)	<b>Sofia Gigliotti</b>	<i>Uncovering trade-off between pre- and post-copulatory traits in Madagascar hissing cockroaches</i>
Poster Board N1 (27th)	<b>Mayank Kashyap</b>	<i>Female contribution to male coloration in wild populations of <i>Poecilia reticulata</i></i>
Poster Board N2 (27th)	<b>Haysun Choi</b>	<i>A Unified Darwinian Framework for Mechanisms of Sexual Selection by Mate Choice and Sexual Conflict</i>
Poster Board N3 (27th)	<b>Kate Ostevik</b>	<i>Sexual selection and the evolution of reproductive isolation in flowering plants</i>
Poster Board N4 (27th)	<b>Kathleen Sagarin</b>	<i>The role of starvation in selection on <i>Bacillus subtilis</i> sporulation and germination behavior</i>



Poster Board N5 (27th)	<b>Marissa Cartee</b>	<i>The Evolution of Sperm Bundle Morphology in Poeciliidae</i>
Poster Board N6 (27th)	<b>Gilly Denham</b>	<i>Sperm Utilization after Multiple Matings in Field Crickets</i>
Poster Board N7 (27th)	<b>Darren O'Connell</b>	<i>The genomics of adaptation in a hyper-diverse genus of bees: the past, present and future of important wild pollinators</i>
Poster Board N8 (27th)	<b>Kungping Lin</b>	<i>What maintains the standing genetic variation fueling rapid adaptation in threespine sticklebacks?</i>
Poster Board N9 (27th)	<b>Roberta Canton</b>	<i>Evolution of Blue Plumage in Lepidothrix (Manakins)</i>
Poster Board N10 (27th)	<b>Rebekah White</b>	<i>Comparative Study of age-linked gene expression in Pristionchus nematodes</i>
Poster Board N11 (27th)	<b>Luana Soares</b>	<i>How many species are there? Lineage diversification and hidden speciation in Solanaceae from highland grasslands in southern South America</i>
Poster Board N12 (27th)	<b>Andres Aguilar</b>	<i>Diversification, species limits, and hybridization in the deep-water Lake Baikal sculpin radiation</i>
Poster Board N13 (27th)	<b>Alyssa Henderson</b>	<i>Mapping the distribution of metabolic functions in microbial communities</i>
Poster Board N14 (27th)	<b>Nora Heaphy</b>	<i>Introgression as a buffer against maladaptation in a keystone northern forest tree</i>





Poster Board N15 (27th)	<b>Gangothri Sivaraj</b>	<i>A window to hybrid speciation: The ecological divergence in the native Penstemon species of Southern California</i>
Poster Board N16 (27th)	<b>Mikaely Evans</b>	<i>Analysis of gene flow reveals hybridization in an ex situ Oak collection</i>
Poster Board N17 (27th)	<b>Claudie Pageau</b>	<i>Past and present consequences of hybridization in crowned sparrows</i>
Poster Board N18 (27th)	<b>Anna Runemark</b>	<i>Hybridization, novelty, and reproductive barriers: Lessons from gene expression studies</i>
Poster Board N19 (29th)	<b>Raphaël Fougeray</b>	<i>Interplay between abiotic and biotic factors across altitudes, and their influence on Ithomiini butterfly biodiversity</i>
Poster Board N20 (27th)	<b>Garrett Janzen</b>	<i>Piggy-backing: The role of interstate swine transport in influenza A virus dispersal across the US</i>



**Sunday, July 28**

**SSE Presidential Address**

(Free coffee in 517 Lobby)

**Room: 517BCD: 8:00 AM - 9:20 AM**

8:00 AM

**Anne Charmantier**

*SSE Presidential Address: From the wild to the streets, evolution never sleeps*



**Room: 516A**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Adaptation V**

9:30 AM	<b>Ernesto Berríos-Caro</b>	<i>Adaptation of bacterial populations exposed to periodic bottlenecks and antibiotic drug pressure</i>
9:45 AM	<b>Skyler Berardi</b>	<i>Exploring the environmental drivers of complex trait adaptation over rapid timescales</i>
10:00 AM	<b>Daniel Bolnick</b>	<i>The transient eco-evolutionary dynamics of infection and immunity during reintroductions of threespine stickleback</i>
10:15 AM	<b>Rees Kassen</b>	<i>Spatial structure accelerates adaptive evolution and increases parallelism in experimental populations of <i>Pseudomonas aeruginosa</i></i>
10:30 AM	<b>Mojgan Ezadian</b>	<i>Stochastic model to correct for selection in mutation accumulation experiments</i>



**Room: 520E**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Macroevolution V**

9:30 AM	<b>Amanda Doyle</b>	<i>Contrasts in the evolutionary trends of marine bivalve body size change by dominant biogeographic region and body-size class</i>
9:45 AM	<b>Ian Brennan</b>	<i>Morphological novelty evolves by bursts in the world's largest skinks</i>
10:00 AM	<b>Jake Berv</b>	<i>15,000 Skeletons, or How I Learned to Stop Worrying and Love the Phenotype</i>
10:15 AM	<b>Shelby Oliveaux</b>	<i>Expanded phylogeny of Palicourea provides context for chemical evolution</i>
10:30 AM	<b>Ray Chatterji</b>	<i>Dietary specialization drives adaptation, convergence, and integration across cranial and appendicular skeleton in Waterfowl (Anseriformes)</i>



**Room: 520F**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Population genetics III**

9:30 AM	<b>Joao Pedro Fontenelle</b>	<i>Variability in the sensitivity of outlier detection methods in outbreaking systems: a spruce budworm case study</i>
9:45 AM	<b>Hollie Marshall</b>	<i>DNA methylation as a driver for genomic adaptation across evolutionary timescales.</i>
10:00 AM	<b>Zach Hancock</b>	<i>A population genetics approach to range evolution</i>
10:15 AM	<b>Asad Hasan</b>	<i>The effects of migration on genetic diversity and <math>F_{ST}</math> in subdivided populations</i>
10:30 AM	<b>Karin van der Burg</b>	<i>The genetics and evolution of diapause along a latitudinal gradient in a North American forest pest species. <b>WITHDRAW</b></i>



**Room: 523AB**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Ecological genetics II**

9:30 AM	<b>Kathryn Greiner-Ferris</b>	<i>The Population Structure of Three Codistributed Syngnathid Species in Florida</i>
9:45 AM	<b>Joaquin Nunez</b>	<i>Climate change and overwintering bottlenecks shape standing genetic variation in temperate fruit flies</i>
10:00 AM	<b>Juan Diego Rojas-Gutierrez</b>	<i>Non-additive genetic variation underlying fitness in natural populations of <i>A. thaliana</i></i> <b>WITHDRAWN</b>
10:15 AM	<b>Tomoyuki Kokita</b>	<i>Evolutionary dynamics of countershading color polymorphism in a fish</i> <b>WITHDRAWN</b>
10:30 AM	<b>Cheyenne Reuben-Thomas</b>	<i>Playing with fire: Comparing the effects of Traditional Ecological Knowledge and settler colonialism on insect diversity</i>



**Room: 524A**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Genomics V**

9:30 AM	<b>Shauna Rasband</b>	<i>Characterizing a female-specific growth gene and its relationship to reverse sexual size dimorphism</i>
9:45 AM	<b>Leonardo Campagna</b>	<i>The role of structural variation in shaping coloration phenotypes in the rapid capuchino Seedeater radiation</i>
10:00 AM	<b>Jay Falk</b>	<i>The genetics of sex dichromatism: Seeking answers from a female-polymorphic hummingbird</i>
10:15 AM	<b>Simon Sin</b>	<i>Genetic basis of plumage coloration in a seasonally and sexually dichromatic songbird</i>
10:30 AM	<b>Sophia MacRae Orzechowski</b>	<i>Genomic and transcriptomic consequences of loss of recombination: evidence from neo-sex chromosomes in Australian honeyeaters</i>



**Room: 524B**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Discussing representativeness and civil protection issues in eco-evolutionary research**

9:30 AM	<b>Luisa Maria Diele Viegas</b>	<i>Epistemology of Ignorance: Unveiling bias and building equity in Evolutionary Biology</i>
10:00 AM	<b>Paula Adams</b>	<i>Discussions of sexual diversity in nature increase student sense of belonging</i>
10:15 AM	<b>Robin Costello</b>	<i>Humanizing biologists to promote equity in STEM higher education</i>
10:30 AM	<b>Morteza Mahmoudi</b>	<i>Academic bullying: an enduring challenge across disciplines and generations</i>





**Room: 524C**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Behavior I**

9:30 AM	<b>Bhaavya Srivastava</b>	<i>Investigating the ontogeny of mating behavior and chemical cues</i>
9:45 AM	<b>Ayala Berger</b>	<i>Acoustic courtship displays of hummingbirds: convergent signal forms across different mechanisms</i>
10:00 AM	<b>Gabrielle Welsh</b>	<i>Permissive female preferences may facilitate the evolution of novel songs in the Pacific field cricket</i>
10:15 AM	<b>Callen Inman</b>	<i>Interactions between ecology and mating system shape behavioral and cognitive trait variation between two syntopic pairs of poeciliid fish</i>
10:30 AM	<b>Amanda Moehring</b>	<i>The genetic and neural basis of female aggression</i>



**Room: 525AB**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Experimental evolution IV**

9:30 AM	<b>Luis Felipe Cedeño Pérez</b>	<i>Evolution of synchronized multicellular development during long-term experimental evolution</i>
9:45 AM	<b>Autumn Peterson</b>	<i>Disentangling the evolutionary impacts of relatedness and facultative/obligate life cycles during the transition to multicellularity</i>
10:00 AM	<b>Avishikta Chakraborty</b>	<i>Experimentally characterising adaptive conflicts over sex-specific phenotypes in <i>Drosophila melanogaster</i></i>
10:15 AM	<b>Tiago G. Zeferino</b>	<i>Host adaptation potential of a microsporidian: implications for mosquito-borne diseases</i>
10:30 AM	<b>Andrew Stewart</b>	<i>Life history changes associated with over 400 generations of artificial selection on body size in <i>Drosophila</i></i>



**Room: 518B**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Evolutionary theory IV**

9:30 AM      **Daniel Smith**      *Why there are so many different definitions for fitness in models (Moved)*

9:45 AM      **Richard Prum**      *Performance all the way down: a queer feminist theory of the phenotype*

10:00 AM      **Pany Decossard**      *On the geological origin of biochemistry.*



**Room: 519AB**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Computational biology II**

9:30 AM	<b>Heru Handika</b>	<i>Rethinking software development for more accessible phylogenomic research and teaching</i> <b>WITHDRAWN</b>
9:45 AM	<b>Bhavin Khatri</b>	<i>Coupling ABC and machine learning to jointly estimating recent demography and migration from spatial soft-sweeps</i>
10:00 AM	<b>Lena Collienue</b>	<i>Instability in phylogenetic trees after taxon addition</i>
10:15 AM	<b>Sandra Álvarez-Carretero</b>	<i>Using a Bayesian cross-bracing approach to infer the age of the Last Universal Common Ancestor</i>
10:30 AM	<b>William Hemstrom</b>	<i>Filtering next-generation genomic data: impacts and guidelines</i>



**Room: 516B**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Socially transferred materials: convergent evolution and molecular biology**

9:30 AM	<b>Mariana Wolfner</b>	<i>A Team of Rivals: Drosophila seminal proteins and the interaction between male and female</i>
9:45 AM	<b>Yuqi Wang</b>	<i>Larval storage proteins and metabolic division of labor in ants</i>
10:00 AM	<b>Caroline Soares Carneiro</b>	<i>Crosstalk via secreted factors can facilitate the evolution of cooperative interactions between genetically distinct cancer clones</i>
10:15 AM	<b>Adrian Richter</b>	<i>Macroevolution of the ant feeding system; Insights from micro-CT data and 3D-reconstructions</i>
10:30 AM	<b>Jen Perry</b>	<i>A seminal protein affects females at the molecular level: metabolomic and transcriptomic effects of sex peptide and female diet in Drosophila melanogaster</i>



**Room: 516C**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**How do multilevel and nonlinear trait architectures shape phenotypic and evolutionary dynamics of plasticity and robustness?**

9:30 AM

**Arnaud LE ROUZIC**

*Can theory make predictions about the evolution of robustness and plasticity in gene regulatory networks?*

10:00 AM

**Alger Jorritsma**

*The evolution of plasticity and evolvability in a simple gene regulatory network*

10:15 AM

**Apolline Petit**

*Association between gene expression plasticity and regulatory network topology.*

10:30 AM

**Nick O'Brien**

*Integrating gene regulatory networks into quantitative trait models: adaptive walks, polygenic adaptation, and beyond*



**Room: 516D**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Connecting micro- and macroevolution of form and function relationships**

9:30 AM	<b>Katherine Corn</b>	<i>Detecting multipeak macroevolution on the performance landscape</i>
10:00 AM	<b>Erin Westeen</b>	<i>Ecomorphology and resource partitioning across levels of biological organization in spiny lizards</i>
10:15 AM	<b>Gokul Valiya Parambil</b>	<i>Why organisms exaggerate investments: understanding positive allometry through the lens of lifetime fitness benefits in a free-living tropical agamid</i>
10:30 AM	<b>Stephanie Woodgate</b>	<i>Microevolution across space and time: the Eivissa Wall Lizard as a case study to link evolution of form and function spanning many time and geographical scales</i>



**Room: 516E**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Education and outreach**

9:30 AM	<b>Mike Wiser</b>	<i>Using a taxonomy game for student engagement.</i>
9:45 AM	<b>Taya Misheva</b>	<i>Are they cousins? Exploring student acceptance of common ancestry in evolution</i>
10:00 AM	<b>Abigail Matela</b>	<i>EvolvingSTEM: a three-dimensional evolution curriculum that uses authentic research to improve student learning and engagement</i>
10:15 AM	<b>Ellie Jarvis</b>	<i>Fruit fly citizen science: better engagement when the data collection matters</i>





**Room: 520A**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

## **Comparative phylogeography**

9:30 AM	<b>Hannah Wood</b>	<i>Madagascar speciation: Pleistocene glaciations promote genetic differentiation and secondary contact with minimal gene flow in sympatric populations of pelican spiders <i>Eriauchenius workmani</i> (Arachaeidae, Araneae)</i>
9:45 AM	<b>Ethan Gyllenhaal</b>	<i>Comparative phylogeography reveals the influence of gene flow in a model archipelago</i>
10:00 AM	<b>Mitzy Pepper</b>	<i>A record of dunes: the power of extensive mtDNA archives to shed light on the age of Australia's deserts</i>
10:15 AM	<b>Elyse Parker</b>	<i>Comparative phylogeography reveals contrasting patterns of population structure in Antarctic notothenioid fishes</i>
10:30 AM	<b>Kristen Wacker</b>	<i>Mountains versus rivers: Testing the effects of barrier strength and population size on population differentiation and diversity using whole-genome comparative phylogeography in Neotropical birds</i>



**Room: 520B**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Empirical and conceptual insights on the (un)predictability of evolution**

9:30 AM	<b>Marius Roesti</b>	<i>Symposium Introduction: On the value, approaches, and limits of predicting evolution</i>
9:45 AM	<b>Eryn McFarlane</b>	<i>Remarkable variation among replicate hybrid zones.</i>
10:00 AM	<b>Luke Frishkoff</b>	<i>Evolutionary opportunity and limits of eco-evolutionary predictability in replicate Anolis lizard radiations</i>
10:15 AM	<b>Jon Mee</b>	<i>Conditionally deleterious mutations and genotypic redundancy affect predictability in the evolution of local adaptation</i>
10:30 AM	<b>Andrew Hendry</b>	<i>Evolution is not as parallel as you think: evidence from guppies and stickleback</i>



**Room: 520C**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Convergent evolution in natural experiments**

9:30 AM	<b>Scott Edwards</b>	<i>Using phylogenies to connect genomic and phenotypic variation under convergent evolution</i>
10:00 AM	<b>Maddie James</b>	<i>Chromosomal inversions and the genetic architecture of parallel adaptation</i>
10:15 AM	<b>Ariadna Morales</b>	<i>Convergent evolution of bat ecomorphs of the genus <i>Myotis</i> involves changes in genes with similar functions but not always the same genes</i>
10:30 AM	<b>Zoe Hert</b>	<i>Evolutionary genomics of convergent fruit color transitions on the Galápagos Islands</i>



**Room: 520D**

**9:30 AM - 10:45 AM**

**Sunday, July 28**

**Advances in marine evolutionary biology**

9:30 AM	<b>Kathleen Lotterhos</b>	<i>Disentangling the effects of multiple inversions on migratory behavior in Atlantic Cod: A Russian Doll analysis</i>
10:00 AM	<b>Roger Butlin</b>	<i>Inversions, ecotypes and species in intertidal snails (<i>Littorina</i>)</i>
10:15 AM	<b>Carolyn Tepolt</b>	<i>Dispersal, invasion, and adaptation in a rapidly expanding invasive crab population</i>
10:30 AM	<b>Tin Chi Solomon Chak</b>	<i>Genomic Consequences of Eusociality in snapping shrimps</i>



# SUNDAY, JULY 28: MORNING BREAK

## Asians in Evolution mixer

**Room: 725: 10:45 AM - 11:15 AM**

Breakout smaller group networking opportunities, during regular break times, but in a different space. Preregistration not required. Coffee/Tea/Snacks included.

## Coffee break

**Room: 220DE: 10:45 AM - 11:15 AM**

Coffee, Tea, Water & Snacks

### Exhibitor Booths:

- ASN/SSB/SSE/ESEB Grad Committees
- BES - British Ecological Society
- DataClassroom
- Joint Diversity Committee
- Journal of Evolutionary Biology
- Oikos
- Oxford University Press
- Princeton University Press
- Royal Society Publishing
- SSE Journals
- SSE Public Policy
- SySTEM BIO-LEAPS
- University of Chicago Press
- US National Science Foundation
- Vanderbilt University
- Yale University Press



**Room: 516A**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Adaptation VI**

11:15 AM	<b>Daniel Oliveira</b>	<i>Environmental and developmental correlates of thermal trait variation in local ensatina salamanders</i>
11:30 AM	<b>Antoine Perrier</b>	<i>Rear-edge populations: distinct evolutionary history, phenotypes and adaptation</i>
11:45 AM	<b>Lanie Galland</b>	<i>Hierarchical genetic structure and implications for conservation of the world's largest salmonid, Hucho taimen</i>
12:00 PM	<b>Laura Steinmann</b>	<i>The role of the environment in the origin and evolution of Arabidopsis polyploids</i>
12:15 PM	<b>Andrew Bleich</b>	<i>Cold Acclimation Induction in Panicum virgatum, switchgrass</i>



**Room: 520E**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Phylogenetic comparative methods I**

11:15 AM	<b>Benjamin Auerbach</b>	<i>Testing hypotheses about mammalian ungual phalanx evolution with respect to locomotion</i>
11:30 AM	<b>Corinthia Black</b>	<i>Extended phenotype affects somatic phenotype in spiders: web builders have lower biting forces than free hunters</i>
11:45 AM	<b>Mariam Abass</b>	<i>Correlated evolution of sexual shape and size dimorphism, and condition dependence: A comparative approach</i>
12:00 PM	<b>Julia Laterza Barbosa</b>	<i>Arboreality and the evolution of hydrothermal physiology in neotropical frogs</i>
12:15 PM	<b>Yareli Alvarez</b>	<i>Evolution of defense mechanisms in ants: A phylogenetic study of soldier caste origins</i> <b>WITHDRAWN</b>



**Room: 520F**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Population genetics IV**

11:15 AM	<b>Natalia Bayona Vasquez</b>	<i>Streamside Secrets: Genomic Exploration of Extra-Pair Paternity in Waterthrush Territories</i>
11:30 AM	<b>Rilquer Mascarenhas</b>	<i>Simulating life history variation to infer historical demography from genetic data</i>
11:45 AM	<b>Natalie Forsdick</b>	<i>Conservation genomics of critically endangered Kuaka Whenua Hou (Codfish Island diving petrel; <i>Pelecanoides whenuahouensis</i>)</i>
12:00 PM	<b>Henrique Batalha-Filho</b>	<i>Unraveling the role of landscape on population genomic differentiation of birds and lizards from eastern South America</i>
12:15 PM	<b>Brian Dillard</b>	<i>Discovery of ancient rodent-bacterial symbioses reveals recent genetic drift in laboratory-mouse gut microbiota</i>





**Room: 523AB**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Ecological genetics III**

11:15 AM	<b>Andhika Putra</b>	<i>Innovation under constraint: how do non-native species respond to the challenges of novel environments?</i>
11:30 AM	<b>Chris Knight</b>	<i>Soil microbiomes show consistent and predictable evolutionary responses to extreme events across climates</i>
11:45 AM	<b>Justine Bélik</b>	<i>Can DNA methylation predict the age of <i>Kryptolebias marmoratus</i>? Development of an epigenetic clock in a self-fertilizing vertebrate species.</i>
12:00 PM	<b>Meaghan Clark</b>	<i>Dissecting spatial mechanisms of inbreeding depression in a threatened rattlesnake</i>
12:15 PM	<b>Emma Glenn</b>	<i>A complete assembly and annotation of the American shad genome yields insights into the origins of diadromy</i>



**Room: 524A**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Genomics VI**

11:15 AM	<b>Kelsie Lopez</b>	<i>Investigating the genomic landscape of structural variation in a suboscine passerine (<i>Hemitriccus margaritaceiventer</i>) using pangenomic methods</i>
11:30 AM	<b>Matthew Hufford</b>	<i>Substantial divergence in genome evolution post-polyploidy in maize and its wild relatives</i>
11:45 AM	<b>Hannah Verdonk</b>	<i>MSS: A codon model with Multiple classes of Synonymous Substitutions</i>
12:00 PM	<b>Alexander Moffett</b>	<i>Genomic context and the fate of duplicated genes</i>
12:15 PM	<b>Jessica Garb</b>	<i>Genomic and morphological investigation of spider silk production exploring evolutionarily divergent web builders</i>



**Room: 524B**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Genetic trade-offs: new approaches to classic problems**

11:15 AM	<b>Aneil Agrawal</b>	<i>Sex-specific selection and gene expression evolution</i>
11:45 AM	<b>Florent Sylvestre</b>	<i>Intra-locus sexual conflicts in the three-spined stickleback: Genomic Patterns, sex-biased gene expression and genetic diversity</i>
12:00 PM	<b>Meng Yuan</b>	<i>Testing for genetic trade-offs in expression between sexes and life stages</i>
12:15 PM	<b>Luke Holman</b>	<i>The genomic and phenomic underpinnings of sex- and age-specific fitness in <i>Drosophila</i></i>



**Room: 524C**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Behavior II**

11:15 AM	<b>Molly Cummings</b>	<i>Individual variation in the neurogenomics of mate choice and social cognition (and how social experience plays a role) <b>WITHDRAWN</b></i>
11:30 AM	<b>Alex Zemella</b>	<i>How to turn off high testosterone: genetic regulation of androgens in male mating morphs</i>
11:45 AM	<b>Nilo Merino Recalde</b>	<i>The demographic drivers of cultural evolution in bird song: a multilevel study</i>
12:00 PM	<b>Allan Edelsparre</b>	<i>Promoter 4 of the foraging gene plays a role in female-biased dispersal in <i>Drosophila melanogaster</i></i>
12:15 PM	<b>Caitlin Creak</b>	<i>Weathering the storm for love, or not; Tracking highly venomous spiders while they search for mates.</i>



**Room: 525AB**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Experimental evolution V**

11:15 AM	<b>Sam Slowinski</b>	<i>Juvenile and adult resistance against an infectious pathogen function as separate traits that can evolve independently</i>
11:30 AM	<b>Luís M. Silva</b>	<i>Dissecting parasite transmission to understand virulence evolution</i>
11:45 AM	<b>Jose Salome Correa</b>	<i>The construction of recombinant inbred lines as an evolve-and-resequence experiment to study inbreeding, dominance, and recessive deleterious variation.</i>
12:00 PM	<b>David Hubert</b>	<i>Selection for Accelerated Aging Leads to Extensive Metabolic Remodeling in Experimentally Evolved Drosophila Populations</i>
12:15 PM	<b>Claudia Pruvôt</b>	<i>Evolutionary mechanisms underlying leg growth variation in <i>Microvelia longipes</i></i>



**Room: 518B**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Development I**

11:15 AM	<b>Christina Zakas</b>	<i>Differential gene expression in early development leads to life-history differences</i>
11:30 AM	<b>Colton Unger</b>	<i>Selection for increased tibia length in mice alters post-cranial skeletal proportions through correlated developmental responses.</i>
11:45 AM	<b>Amy LaFountain</b>	<i>How the monkeyflowers earned their stripes: Potentiating factors of a novel foliar pigmentation pattern</i>
12:00 PM	<b>Rajendhran Rajakumar</b>	<i>Mechanisms of bone development are conserved in a cartilaginous fish</i>
12:15 PM	<b>Cody Limber</b>	<i>Genetic characterization of developing feather cell types provides insight into feather cell type evolution</i>



**Room: 519AB**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Conservation biology I**

11:15 AM	<b>Ruth Rivkin</b>	<i>Assessing the risk of climate maladaptation for Canadian polar bears</i>
11:30 AM	<b>Kat Sullivan</b>	<i>Integrating community science, field surveys, and natural history collections in pollinator research for conservation action</i>
11:45 AM	<b>Josh Jahner</b>	<i>Conserving cryptic diversity at small spatial scales in sandhill skippers</i>
12:00 PM	<b>Tony Wilson</b>	<i>Genetic evaluation of a dramatic population collapse associated with coastal warming</i>
12:15 PM	<b>Aja Tengstedt</b>	<i>Genomic insights on conservation priorities for North Sea houting and European Lake whitefish</i>



**Room: 516B**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Are sensory biases likely to be ancestral, prevalent and consequential?**

11:15 AM	<b>Becky Fuller</b>	<i>The many interpretations of sensory bias: the effects of genetic constraints, plasticity, and light on sexual selection</i>
11:45 AM	<b>Ayumi Mziuno</b>	<i>Foraging-related visual preference as a potential driver of plumage pattern evolution in estrildid finches</i>
12:00 PM	<b>Tyler Buchinger</b>	<i>Role of a sensory trap in the origin and evolution of pheromone communication in sea lamprey</i>
12:15 PM	<b>Ben Sandkam</b>	<i>Why do sensory biases persist: Mechanistic constraints and genomic architecture</i>





**Room: 516C**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**How do multilevel and nonlinear trait architectures shape phenotypic and evolutionary dynamics of plasticity and robustness?**

11:15 AM

**Noah Brady**

*How do butterflies use the present to predict the future? Evolution, development, and the causes of seasonal plasticity.*

11:30 AM

**Soham Dibyachintan**

*Cryptic genetic variation shapes the fate of gene duplicates in a protein interaction network*

12:00 PM

**Sikander Khare**

*Developmental limits restrict adaptive plasticity: a model*

12:15 PM

**Puneeth Deraje**

*The role of epigenetics and plasticity in evolutionary rescue*



**Room: 516D**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Connecting micro- and macroevolution of form and function relationships**

11:15 AM	<b>Christopher Martin</b>	<i>Many-to-many mapping and the scaly curse of dimensionality: from genotype to phenotype to performance to fitness in Caribbean pupfishes</i>
11:45 AM	<b>Mauricio González-Forero</b>	<i>Evo-devo dynamics of hominin brain size</i>
12:00 PM	<b>Thibault Latrille</b>	<i>Detecting diversifying selection for a trait from within and between-species genotypes and phenotypes</i>
12:15 PM	<b>Monique Simon</b>	<i>Macroevolutionary divergence along allometric lines of least resistance in frog hindlimb traits and its consequence for jumping performance</i>



**Room: 516E**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Evolutionary ecology I**

11:15 AM      **Bradley Cosentino**      *Rural selection drives the evolution of an urban-rural cline in coat color in gray squirrels*

11:30 AM      **Matthew Symonds**      *Differences between appendages in the regulation of heat loss and its implications for body shape evolution in response to climate change*

11:45 AM      **Katie Monat**      *Large body scales evolve at both cool and warm temperature extremes in Caribbean Anolis lizards*

12:00 PM      **Charlotte Ngo**      *Evolutionary origin(s) of EPSPS copy number variation: temporal analysis of resistance gene copy number variation in *Amaranthus palmeri**

12:15 PM      **Philip Madgwick**      *Evolutionary rescue in resistance to pesticides*



**Room: 520A**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Diversification**

11:15 AM	<b>Clarissa de Carvalho</b>	<i>Diversification in Neotropical Savannas: genomic studies of Antilophia manakins</i>
11:30 AM	<b>Elisa Bonaccorso</b>	<i>Evolution in the high Andes: Understanding processes behind patterns of divergence in the Ecuadorian hillstar, Oreotrochilus chimborazo</i>
11:45 AM	<b>Lucas Mello</b>	<i>Species delimitation and biogeography of Dolichothele (Araneae, Mygalomorphae) a neotropical tarantula genus</i>
12:00 PM	<b>Jenna McCullough</b>	<i>Unraveling the Paradox of the 'Great Speciators': evolutionary dynamics of a geographic radiation of island kingfishers (Todiramphus)</i>



**Room: 520B**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Empirical and conceptual insights on the (un)predictability of evolution**

11:15 AM	<b>Eva Lievens</b>	<i>Coevolutionary divergence: diverse viral mutations break the same host resistance</i>
11:30 AM	<b>Harshavardhan Thyagarajan</b>	<i>Intralocus sexual conflict explored through male-limited selection in <i>D melanogaster</i></i>
11:45 AM	<b>Olivia Mel-de-Fontenay Ghosh</b>	<i>Predictability of fitness via low-dimensional genotype-phenotype maps</i>
12:00 PM	<b>Kelley Leung</b>	<i>Empirically proving the concept of polyploidy as a driver of animal evolution with the parasitoid wasp model <i>Nasonia</i></i>
12:15 PM	<b>Maria Kalambokidis</b>	<i>The eco-evolutionary origins of life: experimental evolution of major transitions</i>



**Room: 520C**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Convergent evolution in natural experiments**

11:15 AM	<b>Zoe Broad</b>	<i>Gene Network Divergence Drives Adaptive Trait Evolution in an Australian Wildflower.</i>
11:30 AM	<b>Hongxin Xie</b>	<i>Single cell transcriptomics provide insights into the evolution of viviparity in the Eurasian common lizards</i>
11:45 AM	<b>Kelsey Byers</b>	<i>Integrative investigation of within-species floral shifts in monkeyflowers (<i>Mimulus/Erythranthe</i>) reveals convergence on yellow flowers and potential reversals to bee pollination</i>
12:00 PM	<b>Tom Schmidt</b>	<i>Global, asynchronous partial sweeps at multiple insecticide resistance genes in <i>Aedes aegypti</i> mosquitoes</i>
12:15 PM	<b>Alan Bergland</b>	<i>Balancing selection and the functional effects of shared polymorphism in cryptic <i>Daphnia</i> species</i>



**Room: 520D**

**11:15 AM - 12:30 PM**

**Sunday, July 28**

**Advances in marine evolutionary biology**

11:15 AM	<b>Claudio Slamovits</b>	<i>The transforming influence of viruses on eukaryotic evolution. The case of dinoflagellates.</i>
11:30 AM	<b>Julia Barth</b>	<i>Resolving the diversification history of anguillid eels across oceans with genome-wide data</i>
11:45 AM	<b>Samuel Church</b>	<i>Population structure on the high seas: global diversity of the Portuguese man o' war</i>
12:00 PM	<b>Floriane Coulmance</b>	<i>Radiation with reproductive isolation in the near-absence of phylogenetic signal</i>
12:15 PM	<b>Alexis Marion</b>	<i>Sequential trait evolution does not drive deep-time diversification in sharks</i>



## SUNDAY, JULY 28: LUNCHTIME EVENTS

**Lunch break (On your own): 12:30 PM - 2:30 PM**

**Editorial board meeting: Journal of Evolutionary Biology** (For Editorial Board Members only).

**Room: 445B: 12:30 PM - 2:30 PM**

**Editorial board meeting: Evolution** (For Systematic Biology Editors only).

**Room: 518a: 12:30 PM - 2:30 PM**

**SPC Council meeting** (For Council Board Members only).

**Room: 447: 2:00 PM - 3:00 PM**

### **ASN Graduate mixer**

**Room: 725: 12:30 PM - 2:30 PM**

#### **Description:**

The ASN Graduate Council is hosting a student-post-doc-faculty lunchtime mixer for members of the American Society of Naturalists. The goal of this mixer is to create a venue for academic discussion, particularly between graduate students, postdocs, and senior researchers. (Preregistration appreciated but not required. Refreshments will be served).

### **NSF Big Ideas**

**Room: 519AB: 12:45 PM - 2:15 PM**

#### **Description:**

Discussion with NSF Program Officers. Come to an informal discussion session with NSF Program Officers. We are interested in hearing your ideas about the big questions and leading edges in evolutionary biology. Tell us about where evolutionary biology will and should be going in the next five years. This is your chance to tell us what you think. (Admission is free. Preregistration not required). Lunch is not provided, but a kiosk is available in the lobby of 517 to purchase food if you wish to bring your own. Please note that, by building policy, no food from outside the convention center can be brought in.





**Room: 516A**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Adaptation VII**

2:30 PM	<b>Steven Brady</b>	<i>Population divergent responses to roads and pollution</i>
2:45 PM	<b>Andrew Whitehead</b>	<i>Genetic architecture of independently evolved pollution resistance in four killifish populations</i>
3:00 PM	<b>Matthew Sasaki</b>	<i>Seasonality drives rapid adaptation in a coastal copepod</i>
3:15 PM	<b>Jonathan Puritz</b>	<i>Assessing the evolutionary response of eastern oyster larvae to exposure Coastal Acidification and Sewage Effluent: a CASE study</i>
3:30 PM	<b>Tatiana Bellagio</b>	<i>Polygenicity effects on rapid adaptation to new environments</i>



**Room: 520E**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

## **Phylogenetic comparative methods II**

2:30 PM	<b>Benjamin Teo</b>	<i>Leveraging graphical model techniques to study evolution on phylogenetic networks</i>
2:45 PM	<b>Liam Revell</b>	<i>Bounded Brownian motion and the most important phylogenetic comparative methods paper you've probably never read</i>
3:00 PM	<b>Geoffrey Finch</b>	<i>Rapid descending dysploidy and annual growth habit give rise to low chromosome numbers in the Machaerantherinae (Asteraceae)</i>
3:15 PM	<b>Juan Diego Rodríguez-Rodríguez</b>	<i>Different expressions of the same trait: Evolutionary trajectories of body size and sexual dimorphism among Squamates <b>WITHDRAWN</b></i>
3:30 PM	<b>T. Mason Linscott</b>	<i>Ecophysiological constraint dynamics as drivers of phenotypic change <b>WITHDRAWN</b></i>



**Room: 520F**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Population genetics V**

2:30 PM	<b>Matthew Ming</b>	<i>No evidence for sex-differential gene expression driving sexually antagonistic selection</i>
2:45 PM	<b>Zahra Shafiei</b>	<i>Impact of fluctuating selection on genetic variation when new mutations are expected to be deleterious</i>
3:00 PM	<b>Ronan O'Sullivan</b>	<i>Population genomics during the Sweden-Novgorod wars</i>
3:15 PM	<b>Joseph Lachance</b>	<i>Does effective population size govern evolutionary differences in telomere length?</i>
3:30 PM	<b>Tin-Yu Hui</b>	<i>Aestivation vs Long-Distance Migration: Differentiating the two Persistence Mechanisms of Malaria Vectors with Allele Frequency Dynamics</i>



**Room: 523AB**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Contemporary evolution**

2:30 PM	<b>Francis Dinh</b>	<i>BLACK AND GRAY: A SURVEY OF SQUIRREL COLOR VARIATION IN THE MONTREAL AREA</i>
2:45 PM	<b>Malin Pinsky</b>	<i>Detecting polygenic evolutionary responses to novel environments in Atlantic cod</i>
3:00 PM	<b>Isabel Novick</b>	<i>Elucidating evolutionary relationships and biogeography within the Tineidae (fungus moth) family</i>
3:15 PM	<b>Natalie van Dis</b>	<i>Evolution in action: genomic basis of rapid adaptation to climate change in the winter moth</i>
3:30 PM	<b>Kim Hoang</b>	<i>Host and antibiotic exposure jointly select for greater pathogen virulence</i>



**Room: 524A**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Genomics VII**

2:30 PM      **Rafael Zardoya**      *The genomic basis of cone snails venoms*

2:45 PM      **Jonathan Hughes**      *Characterizing centromere evolution in rodents with rapidly diversifying karyotypes*

3:00 PM      **Héloïse Muller**      *Phylogenetic proximity rather than aquatic lifestyle shapes patterns of horizontal transfer of transposable elements between animals*

3:15 PM      **Sara Miller**      *Genomic architecture in social insects is more strongly associated with phylogeny than social behavior*

3:30 PM      **Ashmika Behere**      *Evolution of Sex Chromosomes in *Lialis burtonis**



**Room: 524B**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Genetic trade-offs: new approaches to classic problems**

2:30 PM	<b>Nancy Chen</b>	<i>Genome-wide associations of fitness components reveals antagonistic pleiotropy and sexual conflict in a wild vertebrate population</i>
3:00 PM	<b>Ewan Flintham</b>	<i>The maintenance of genetic polymorphism in sexually antagonistic traits</i>
3:15 PM	<b>Mattias Siljestam</b>	<i>Sex-specific dominance and its effects on allelic diversity in sexually antagonistic loci</i>
3:30 PM	<b>Jason Bertram</b>	<i>Feedback between environmental fluctuations and adaption rate can greatly increase genetic variation in simple quantitative trait models</i>



**Room: 524C**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Behavior III**

2:30 PM	<b>David Kikuchi</b>	<i>Who innovates? Abundance of novel and familiar food changes which animals are most persistent</i>
2:45 PM	<b>Bloo Mitchell</b>	<i>Chemical mate choice copying in <i>Drosophila melanogaster</i></i>
3:00 PM	<b>Justin Walsh</b>	<i>The cellular and transcriptomic evolution of neurons underlying courtship across <i>Drosophila</i> species</i>
3:15 PM	<b>Jeremy Van Cleve</b>	<i>Dynamic networks and the rise and fall of cooperation</i>
3:30 PM	<b>Darra Boyer</b>	<i>Tracing the evolutionary symphony of birdsong complexity</i>



**Room: 525AB**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Experimental evolution VI**

2:30 PM	<b>Martin Knytl</b>	<i>Synthetic sex chromosomes by CRISPR/Cas9: Haplosufficiency mediates the origin of a new Y chromosome and concomitant extinction of an ancestral W chromosome</i>
2:45 PM	<b>Sayantan Datta</b>	<i>Role of aneuploidy in the de novo evolution of macroscopic multicellularity in <i>Saccharomyces cerevisiae</i></i>
3:00 PM	<b>Colton Siatkowski</b>	<i>Dictyostelium discoideum predation as a model for evolution in the classroom</i>
3:15 PM	<b>Zach Dietz</b>	<i>Evolution of mitonuclear mismatched <i>C. elegans</i>: Effects of adaptedness, mating system and mitochondrial mutations</i>
3:30 PM	<b>Hannah Brazeau</b>	<i>The effects of pollinator decline on the evolution of floral traits</i>





**Room: 518B**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Development II**

2:30 PM	<b>Arjuna Rajakumar</b>	<i>Ant embryology: insights into the evolution and development of a Superorganism</i>
2:45 PM	<b>Ehsan Sanaei</b>	<i>Microbiome analysis of monarch butterflies reveals effects of development and diet</i>
3:00 PM	<b>Travis Chen</b>	<i>Does the origin of novel phenotypes and their integration into complex systems evolve predictably?</i>
3:15 PM	<b>Angelly Vasquez Correa</b>	<i>The reversal of ocelli and the Evo-Devo of caste-specific traits in ants</i>
3:30 PM	<b>Ehab Abouheif</b>	<i>Stress and soldier ants: a case of stress-induced evolutionary innovation</i>



**Room: 519AB**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Conservation biology II**

2:30 PM	<b>Caden Comsa</b>	<i>Threading the Needle: Assessing the Genomic Health of the Critically Endangered Silver Boa</i>
2:45 PM	<b>Adam Glendening</b>	<i>Shearing the wool(ly): Adelges tsugae genomics for hemlock conservation</i>
3:00 PM	<b>Zach Dykema</b>	<i>Genetic impacts of serial bottlenecking in translocated populations of the Anegada rock iguana (Cyclura pinguis)</i>
3:15 PM	<b>Sarah Wenner</b>	<i>Examining the influence of a fungal pathogen on California red-legged frog (Rana draytonii) translocation success</i>



**Room: 516B**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Understanding global change through natural history collections**

2:30 PM      **Emily Meineke**      *Herbaria as records of plant-insect herbivore interactions*

3:00 PM      **Qindong Tang**      *Understanding susceptibility to extinction using historical museum specimens as a genetic time series*

3:15 PM      **Rene Clark**      *Anthropocene genetic diversity loss in the marine tropics*

3:30 PM      **Ramona Irimia**      *Eco-evolutionary dynamics of a global plant invasion reconstructed from historical dna*



**Room: 516C**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**SSE Dobzhansky Prize and ASN Early Career Investigator Awards**

2:30 PM      **Chloé Schmidt**      *The biogeography of genetic diversity and its conservation*

3:15 PM      **Kyle David**      *TBD*



**Room: 516D**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Urban evolutionary ecotoxicology**

2:30 PM	<b>Tuul Sepp</b>	<i>From city to sea and back again: Evolutionary consequences of marine pollution on fish health and what to do about it</i>
3:00 PM	<b>Benjamin Moran</b>	<i>Tying population genomics to chemical pollutants in an anthropogenic hybrid zone</i>
3:15 PM	<b>Madison Armstrong</b>	<i>Exploring the effects of an urban pollutant on an intertidal marine invertebrate</i>
3:30 PM	<b>Emilie Snell-Rood</b>	<i>The effects of evolutionary history with mutagens on the tolerance of butterflies to heavy metal pollution in urban environments</i>



**Room: 516E**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Evolutionary ecology II**

2:30 PM	<b>Juan Guayasamin</b>	<i>Origin and evolution of glassfrogs</i>
2:45 PM	<b>Alan Flatres</b>	<i>Selective advantage of redirected helping in a viscous population</i>
3:00 PM	<b>César Bertinetti</b>	<i>Resculpting the visual narrative: Robust phenotypes for variable light habitats</i>
3:15 PM	<b>Nic Bone</b>	<i>Many ways to migrate: quantifying variation in bird movement and the evolution of “alternative” migratory behaviors</i>
3:30 PM	<b>Haley L. Kenyon</b>	<i>Color pattern differences reduce aggression between closely related species in sympatry</i>



**Room: 520A**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Sexual selection I**

2:30 PM	<b>Renjie Zhang</b>	<i>Escaping the cage of silence: Causes and consequences of extreme signal diversification in Hawaiian crickets</i>
2:45 PM	<b>Sophia Anner</b>	<i>The importance of courtship in an insect system known for ecological adaptation to different host plants (<i>Rhagoletis pomonella</i>)</i>
3:00 PM	<b>Jessie Tanner</b>	<i>More complex choice environments level the playing field for inconsistent or unattractive treefrog males</i>
3:15 PM	<b>Camille Thomas-Bulle</b>	<i>Uncovering the genetic basis of horn size reduction in island populations of rhinoceros beetles</i>
3:30 PM	<b>Wendy A. Valencia-Montoya</b>	<i>Evolutionary trade-offs between male secondary sexual traits revealed by a phylogeny of the hyperdiverse Eumaeini butterflies.</i>



**Room: 520B**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Empirical and conceptual insights on the (un)predictability of evolution**

2:30 PM	<b>Renee Duckworth</b>	<i>Predictable response to unpredictable selection: an example in a passerine bird</i>
2:45 PM	<b>Rachel Moran</b>	<i>Selection-driven trait loss in independently evolved cavefish populations</i>
3:00 PM	<b>Ryan Martin</b>	<i>Physiology evolves predictably but lags behind warming in cities</i>
3:15 PM	<b>Denis Reale</b>	<i>Adaptive and non-adaptive reduction of clutch size in response to climate change in a passerine</i>
3:30 PM	<b>Lucas Albano</b>	<i>Adaptation to environmental variation and manipulation in a cosmopolitan plant</i>





**Room: 520C**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Convergent evolution in natural experiments**

2:30 PM	<b>Sam Yeaman</b>	<i>The genetic architecture of repeated local vs. global adaptation in plants: surprisingly consistent with theoretical predictions</i>
2:45 PM	<b>Charlie Hale</b>	<i>Connecting non-coding sequence to phenotype in grasses using large-scale comparative genomics</i>
3:00 PM	<b>Fernando Hernandez</b>	<i>Rapid and repeated evolution of wild sunflowers in the introduced ranges</i>
3:15 PM	<b>Pauline Raimondeau</b>	<i>A hemizygous supergene controls homomorphic and heteromorphic self-incompatibility systems in Oleaceae</i>
3:30 PM	<b>Jerrica Jamison</b>	<i>Convergence of glucose and fructose metabolism across multiple evolutions of fruit- and nectar-eating bats <b>WITHDRAWN</b></i>



**Room: 520D**

**2:30 PM - 3:45 PM**

**Sunday, July 28**

**Advances in marine evolutionary biology**

2:30 PM	<b>Scott Burgess</b>	<i>Evolution of marine larval dispersal: testing the fitness effects of not spreading sibling larvae</i>
2:45 PM	<b>Zachary Tobias</b>	<i>Population genomics of an invasive tunicate reveals limited parallelism during local adaptation to temperature across both coasts of North America</i>
3:00 PM	<b>Rachael Bay</b>	<i>Eco-evolutionary dynamics of a climate-driven range shift</i>
3:15 PM	<b>Yuqing Chen</b>	<i>Genomic admixture between aquaculture and native oysters in Long Island Sound</i>
3:30 PM	<b>Pierre de Wit</b>	<i>Mapping the invasion potential of the Pacific Oyster in the Baltic Sea through quantitative genetics, adaptation genomics and dispersal modelling</i>



# SUNDAY, JULY 28: AFTERNOON BREAK

## Latines in Evolution mixer

**Room: 725: 3:45 PM - 4:15 PM**

Breakout smaller group networking opportunities, during regular break times, but in a different space. Preregistration not required. Coffee/Tea/Snacks included.

## Coffee break

**Room: 220DE: 3:45 PM - 4:15 PM**

Coffee, Tea, Water & Snacks

### Exhibitor Booths:

- ASN/SSB/SSE/ESEB Grad Committees
- BES - British Ecological Society
- DataClassroom
- Joint Diversity Committee
- Journal of Evolutionary Biology
- Oikos
- Oxford University Press
- Princeton University Press
- Royal Society Publishing
- SSE Journals
- SSE Public Policy
- SySTEM BIO-LEAPS
- University of Chicago Press
- US National Science Foundation
- Vanderbilt University
- Yale University Press



**Room: 516A**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Adaptation VIII**

4:15 PM	<b>Hugo Benítez</b>	<i>Optimizing Phenotype for a Better Fly: Unraveling Adaptive Patterns in the Alien Antarctic Fly <i>Trichocera maculipennis</i> through Genetic and Morphometric Analysis</i>
4:30 PM	<b>Lisa Komoroske</b>	<i>Using invasive species as a window into the evolutionary future of locally adapted marine species under ocean warming</i>
4:45 PM	<b>Robin Waterman</b>	<i>The roles of phenotypic plasticity and evolution in the invasion of three annual weeds into crop fields</i>
5:00 PM	<b>Elizabeth Makovec</b>	<i>The role of sexual selection and immigration in adaptation to a novel environment in <i>Drosophila suzukii</i></i>
5:15 PM	<b>Jesse Lasky</b>	<i>Global ecological genomics and climate adaptation of cheatgrass (<i>Bromus tectorum</i> L.)</i>



**Room: 520E**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Phylogenetic comparative methods III**

4:15 PM	<b>Ian Oiler</b>	<i>Evolution of Galapagos Land Snail-Associated Microbial Communities</i>
4:30 PM	<b>Adrián Moreno Borrallo</b>	<i>Understanding glycaemia and glycation levels in birds: diet and life history traits associations</i>
4:45 PM	<b>Gina Calabrese</b>	<i>Does migration promote speciation? A comparative test in two passerine superfamilies</i>
5:00 PM	<b>Martha Muñoz</b>	<i>Lessons from the Bogert effect on the physiology, morphology, and life history of lizards</i>
5:15 PM	<b>Gen Morinaga</b>	<i>The radiation continuum and the evolution of frog diversity</i>



**Room: 520F**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Population genetics VI**

4:15 PM	<b>Peter Innes</b>	<i>Population genomics of North American blue flax</i>
4:30 PM	<b>Shelly Gaynor</b>	<i>Understanding coexistence of mixed cytotypes in a classic autopolyploid system, Galax urceolata (Diapensiaceae)</i>
4:45 PM	<b>Zoé Postel</b>	<i>Genomic impact of elevated self-fertilization rates in association with the repeated loss of distyly in Linum</i>
5:00 PM	<b>Alice Palmer</b>	<i>Sea Beans in the City Revisited</i>
5:15 PM	<b>Jigisha Jigisha</b>	<i>Population genetics of wheat powdery mildew in Europe</i>



**Room: 523AB**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Phylogeography I**

4:15 PM	<b>Tommy Herrera</b>	<i>Patterns of host-pathogen diversification among deer mice and Sin Nombre hantavirus</i>
4:30 PM	<b>Sumeyra Nur Sanal Demirci</b>	<i>Evolutionary History and Molecular Diversity Patterns of <i>Tabanus bromius</i> (Diptera: Tabanidae) into Anatolia</i>
4:45 PM	<b>Xavier Dallaire</b>	<i>Whole genome and haplotypic variation reveal post-glacial hybridization and mito-nuclear discordance in an arctic fish</i>
5:00 PM	<b>Simon Dellicour</b>	<i>How fast are viruses spreading in the wild?</i>



**Room: 524A**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Genomics VIII**

4:15 PM	<b>Amanda Ackiss</b>	<i>Uncovering the genomic architecture of sex-determination in coregonines using whole genome sequencing</i>
4:30 PM	<b>Bianca Sacchi</b>	<i>Y chromosome degeneration and expression evolution in <i>Rumex hastatulus</i></i>
4:45 PM	<b>Trevor Krabbenhoft</b>	<i>Evolution of polyploid fish genomes</i>
5:00 PM	<b>Siddharth Gopalan</b>	<i>Who needs CRISPR: integrating fine-scale evolutionary variation and cellular variation to test hypotheses for gene regulatory network function</i>
5:15 PM	<b>Ryan Bracewell</b>	<i>Can Y chromosome degeneration lead to reproductive isolation?</i>





**Room: 524B**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Genetic trade-offs: new approaches to classic problems**

4:15 PM	<b>Elissa Sorojsrisom</b>	<i>Time after time: using a new transcriptomic time series of gametophyte development to investigate gene conflict in the alternation-of-generations life cycles of ferns</i>
4:30 PM	<b>Clemens Küpper</b>	<i>Antagonistic pleiotropy of a supergene underlying male mating morphs</i>
4:45 PM	<b>Roman Zug</b>	<i>The Matthew effect in biology, or: do social insect queens really reverse the fecundity-longevity tradeoff?</i>
5:00 PM	<b>Mathieu Videlier</b>	<i>The effect of asymmetry in cross-sex genetic covariances on the evolution of sexual dimorphism</i>
5:15 PM	<b>Filip Ruzicka</b>	<i>Polygenic signals of sex differences in selection in humans from the UK Biobank</i>



**Room: 524C**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Behavior IV**

4:15 PM	<b>Caroline Amoroso</b>	<i>Interactions between avoidance and resistance to parasites</i>
4:30 PM	<b>Andrew Anderson</b>	<i>Using a fish with biparental care to investigate mechanisms of cross-sexual transfer.</i>
4:45 PM	<b>Pierre-Olivier Montiglio</b>	<i>Experience shapes individual foraging specialization and success in a virtual predator-prey system</i>
5:00 PM	<b>Tina Barbasch</b>	<i>Plasticity of behavior and gene regulation for managing the tradeoff between reproduction and survival in threespined stickleback</i>
5:15 PM	<b>Alastair Wilson</b>	<i>Quantitative genetics of personality and plasticity in an emerging decapod model</i>



**Room: 525AB**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Floral evolution**

4:15 PM	<b>Jérôme Burkiewicz</b>	<i>Disentangling plastic and genetic effects of urbanization on flower morphology in <i>Impatiens capensis</i>.</i>
4:30 PM	<b>Amanda Whitehead</b>	<i>The effect of nutrient deposition on selection for extended floral longevity in response to pollinator decline</i>
4:45 PM	<b>Haylee Nedblake</b>	<i>Parallel evolution of corolla tube width shifts in <i>Penstemon</i></i>
5:00 PM	<b>Weijun Liang</b>	<i>Genetic basis of carotenoid pigment intensity variation in <i>Mimulus</i></i>



**Room: 518B**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Gene flow**

4:15 PM	<b>Libby Beckman</b>	<i>Testing adaptive introgression in a complex trait in the South American siskins</i>
4:30 PM	<b>Jessica Judson</b>	<i>The demographic and genomic consequences of genetic rescue in a changing climate</i>
4:45 PM	<b>Natalie Hamilton</b>	<i>Patterns of gene flow in Hoary Marmots (Marmota caligata)</i>
5:00 PM	<b>Camille Kessler</b>	<i>Retracing the evolutionary history of North American deer using modern and ancient DNA</i>
5:15 PM	<b>Spencer Holtz</b>	<i>Expansion load due to gene surfing is associated with a reduction in fitness</i>



**Room: 519AB**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Geographic variation**

4:15 PM	<b>Logan Turner</b>	<i>Thermal tolerance of cryptobenthic fish populations in the northern Gulf of Mexico</i>
4:30 PM	<b>Anusha Bishop</b>	<i>Landscape drivers of genetic diversity in western fence lizards (<i>Sceloporus occidentalis</i>) across California</i>
4:45 PM	<b>Maya Wilson Brown</b>	<i>Local introgression patterns vary in New York City <i>Capsella bursa-pastoris</i></i>
5:00 PM	<b>Théo Gaboriau</b>	<i>Geography of Constraints on Climatic-Niche Evolution Across Vertebrates</i>
5:15 PM	<b>Louise Bodt</b>	<i>From specimens to species: leveraging museum collections for insights into the evolution of introduced species</i>



**Room: 516B**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Understanding global change through natural history collections**

4:15 PM	<b>Robert Guralnick</b>	<i>The promise and pitfalls of natural history collections for understanding biotic response to environmental change</i>
4:45 PM	<b>Anna Santure</b>	<i>Parallel signatures of diet adaptation in the invasive common myna genome</i>
5:00 PM	<b>Jeremy Yoder</b>	<i>Reconstructing 120 years of flowering events in Joshua tree populations</i>
5:15 PM	<b>Tais Ribeiro</b>	<i>Natural history collections as the foundation for identifying the roles of biogeography and climate on the evolution of a specialized oil-bee genus</i>



**Room: 516C**

**4:15 PM - 5:45 PM**

**Sunday, July 28**

**SSE Dobzhansky Prize and ASN Early Career Investigator Awards**

4:15 PM	<b>Stephanie Aguilon</b>	<i>Understanding the speciation process through phenotypes, genotypes, and behavior</i>
4:45 PM	<b>Valentina Gomez-Bahamon</b>	<i>Ecological and Evolutionary Consequences of Switching Migratory Strategies in Birds</i>
5:15 PM	<b>Sheela Turbek</b>	<i>Genomic insights into the origin &amp; maintenance of biodiversity in a changing world</i>



**Room: 516D**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Cancer evolution across scales**

4:15 PM	<b>Jeffrey Townsend</b>	<i>Cancer Evolution: From Mutation Rate Variation to Stage-Specific and Epistatic Effects</i>
4:30 PM	<b>Beata Ujvari</b>	<i>Transmissible cancers, the genomes that don't melt down.</i>
4:45 PM	<b>Rodrigo Hamede</b>	<i>Tumour-host evolutionary interactions drive the long-term coexistence of a transmissible cancer and Tasmanian devils</i>
5:00 PM	<b>Sophie Matthews</b>	<i>Evidence that gene copy number plays a role in the evolution of life history traits across mammals</i>





**Room: 516E**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Evolutionary ecology III**

4:15 PM	<b>Samuel Greaves</b>	<i>The ecological and evolutionary significance of a shared sympatric color polymorphism in <i>Paracirrhites hawkfishes</i></i>
4:30 PM	<b>Raphaël Bouchard</b>	<i>Unraveling the Evolutionary Significance of Sympatric Morphs of Anadromous Cisco (<i>Coregonus artedi</i>) Using Traditional Ecological Knowledge, Morphometrics, and Whole Genome Sequencing</i>
4:45 PM	<b>Elizabeth Stunz</b>	<i>Landscape resistance and gene flow of a widespread arctic sedge and shrub in Alaska</i>
5:00 PM	<b>Sarah Swope</b>	<i>Genetic diversity and gene flow in small populations of the naturally rare edaphic endemic <i>Streptanthus glandulosus secundus</i></i>
5:15 PM	<b>Sierra Vaillancourt</b>	<i>Evolutionary dynamics of a self-sacrificial phage defense mechanism</i>



**Room: 520A**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Sexual selection II**

4:15 PM      **Brian Lerch**      *The evolution of same-sex sexual behavior*

4:30 PM      **Jason Bundy**      *Specialization Pressure and Resource Limitation as Drivers of Mating Type Differentiation and Sexual Selection in Digital Organisms*

4:45 PM      **Andrew Mularo**      *The maintenance of genomic variation under sexual selection through genic capture in an avian lekking system*

5:00 PM      **Daniil Ryabko**      *Beauty beacon: correlated strategies for the Fisher runaway process*



**Room: 520B**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Empirical and conceptual insights on the (un)predictability of evolution**

4:15 PM      **Lars Witting**      *Predicting the evolution of major lifeforms*

4:30 PM      **Ana-Hermina Ghenu**      *Predicting evolution between environments: from E. coli to Ethical discourse*

4:45 PM      **Joseph Travis**      *Identifying the locus for predicting evolution*

5:00 PM      **David Queller**      *Speciation writ large: when complex adaptive systems collide*

5:15 PM      **Brian Langerhans**      *Symposium Conclusion: The current state and some ways forward in predicting evolution*



**Room: 520C**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Convergent evolution in natural experiments**

4:15 PM	<b>Lucas Eckert</b>	<i>Unpredictable morphological changes following colonization of new environments</i>
4:30 PM	<b>Frederic (Freddy) Chain</b>	<i>Pangenomes for populations: how genome references can affect detection of convergent molecular evolution in sticklebacks</i>
4:45 PM	<b>Victoria Watson-Zink</b>	<i>Transcriptomic responses of gecarcinid land crabs to acute and prolonged desiccation stress</i>
5:00 PM	<b>Amruta Swaminathan</b>	<i>CRYing under the surface: exploring the role of Cryptochrome-1 in adaptation to subterranean environments</i>
5:15 PM	<b>Michael White</b>	<i>Convergent evolution of a master sex determination gene among stickleback fishes</i>



**Room: 520D**

**4:15 PM - 5:30 PM**

**Sunday, July 28**

**Advances in marine evolutionary biology**

4:15 PM	<b>Tammy Iwasa Arai</b>	<i>Adapt and attach: genomic adaptations into crustaceans epibiotic lifestyle</i>
4:30 PM	<b>Brendan Cornwell</b>	<i>Coupled population genomic patterns in corals and their symbionts allows for the more powerful detection of loci significantly associated with bleaching resistance</i>
4:45 PM	<b>Haruka Yoshida</b>	<i>Cis-regulatory evolution in behavior-related genes of anemonefishes in relation to host and environmental niche differentiation</i>
5:00 PM	<b>Melissa Pespeni</b>	<i>Distinct plastic versus evolved gene expression responses to multiple stressors in a cold-adapted marine copepod</i>
5:15 PM	<b>Colleen Lawless</b>	<i>Insights into the origin of vertebrate smell from the hagfish genome</i>



## SUNDAY, JULY 28: EVENING EVENTS

**Royal Society mixer** (by special invite only).

**Room: 725: 5:45 PM - 7:30 PM**

**Story Collider (Free. All Welcome)**

**Room: 517A: 7:00 PM - 9:00 PM**

**See the speakers for the event here:**

**<https://www.storycollider.org/tickets/2024/6/6/the-story-collider-presents-stories-from>**

**Description:**

Story Collider returns to the Evolution meeting for a third year! Asher Coello, Pauline Owusu, Chris Robinson, Ruby Mustill, and Jeremy Yoder will present true, personal stories about their experiences in evolutionary biology. [Learn more](#) about this year's speakers, or check out stories from [2019](#) and [2021](#).

All welcome.

Free admission & free popcorn available.

Drinks available for purchase.





**Room: 516A**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**Adaptation IX**

9:30 AM	<b>Borja Mila</b>	<i>Diversification and local adaptation in the Common Chaffinch (<i>Fringilla coelebs</i>) upon colonization of Macaronesian archipelagos</i>
9:45 AM	<b>Rachel Steward</b>	<i>The genomic landscape of adaptation and incipient speciation on a new host plant</i>
10:00 AM	<b>Jennifer Harris</b>	<i>Evaluating the impacts of extensive cover cropping in agriculture on legume-rhizobia mutualism.</i>
10:15 AM	<b>Kathleen Ferris</b>	<i>Natural selection over space and time: the genomic and phenotypic effects of fluctuating selection on species' boundaries in a decade-spanning field experiment</i>
10:30 AM	<b>Jeffrey Weinell</b>	<i>Genomics of adaptation and speciation in Naked-toed Geckos across Atlantic Rainforest and “Dry Diagonal” environments in Brazil</i>





**Room: 520E**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**Phylogenomics I**

9:30 AM	<b>Ethan Briggs</b>	<i>Gondwanan relic or recent arrival? Challenging the systematics and biogeographic origins of Australia's largest spiders with phylogenomics</i>
9:45 AM	<b>Pietro Tardelli Canedo</b>	<i>Getting a grasp on grasping appendages: male polymorphism in the harvester family Neopilionidae (Arachnida: Opiliones)</i>
10:00 AM	<b>Kara K.S. Layton</b>	<i>Revisiting phylogenetic uncertainty and mimicry hypotheses in aposematic sea slugs with genome-wide data</i>
10:15 AM	<b>Priscilla San Juan</b>	<i>Using phylogenomics to accurately characterize host-parasite associations between chipmunks and lice</i>
10:30 AM	<b>Ben Flanagan</b>	<i>Gene expression evolution in response to an immune adjuvant across the phylogeny of ray-finned fishes</i>



**Room: 520F**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**Population genetics theory / methods I**

9:30 AM	<b>Lindi Wahl</b>	<i>Predicting changes in the distribution of fitness effects</i>
9:45 AM	<b>Christian Huber</b>	<i>The genomic footprints of fluctuating selection.</i>
10:00 AM	<b>Kerry Cobb</b>	<i>Accommodating model misspecification when inferring introgression with machine learning</i>
10:15 AM	<b>Abigail Kushnir</b>	<i>A new permutation approach for detecting natural selection in allele frequency time series</i>
10:30 AM	<b>Vivak Soni</b>	<i>Inferring demographic and selective histories from population genomic data using a two-step approach in species with coding-sparse genomes: an application to human data</i>



**Room: 523AB**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**Speciation I**

9:30 AM **Flavia Termignoni-Garcia** *Genomic shock in Swinson's thrush hybrids*

9:45 AM **Jan T. Lifjeld** *Sperm as a speciation phenotype in songbirds*

10:00 AM **Stephanie Blain** *Genomic patterns of introgression across an avian migratory divide*

10:15 AM **Jesse Czekanski-Moir** *Like hypervolumes that pass in the night*

10:30 AM **Caleigh Charlebois** *Transposable Element Diversity in the Greenish Warbler Ring Species: From Individual to Species Complex*



**Room: 524A**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**Genomics IX**

9:30 AM	<b>Ingo Müller</b>	<i>Population genomics and biogeography of a New Guinean avian species complex suggest a rare case of de-speciation</i>
9:45 AM	<b>Maria Recuerda</b>	<i>The capuchino pangenome reveals the landscape of structural variation</i>
10:00 AM	<b>Clare Venney</b>	<i>Mutli-omic contributions to speciation in benthic-limnetic <i>Coregonus</i> species pairs</i>
10:15 AM	<b>Felix Wu</b>	<i>The genomics of speciation, hybridization, and divergence in Texas Phlox</i>
10:30 AM	<b>Daniel Schönberger</b>	<i>Genomic patterns of ecological diversification</i>



**Room: 524B**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**Intraspecific variation and its role in eco-evolutionary dynamics**

9:30 AM	<b>Lynn Govaert</b>	<i>Effects of intraspecific trait variation on competitive dynamics</i>
10:00 AM	<b>BingKan Xue</b>	<i>Dynamic shift of intraspecific variation can modify species interactions to benefit population growth</i>
10:30 AM	<b>Amy Forsythe</b>	<i>A small change can make a big difference: capturing vital rate heterogeneity in Leslie matrices</i>



**Room: 524C**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**Behavior V**

9:30 AM	<b>Rose Amrhein</b>	<i>A comparison of green monkey vocal repertoires across two Caribbean islands</i>
9:45 AM	<b>Philip Kohlmeier</b>	<i>Larval chemical cues induce rapid changes in foraging preferences of ant workers</i> <b>WITHDRAWN</b>
10:00 AM	<b>Claudia Lacroix</b>	<i>Acoustic communication and temperature drive coordinated digging behavior during nest emergence in a widespread reptile</i>
10:15 AM	<b>Maria Creighton</b>	<i>Maternal social bonds are not associated with enhanced infant survival in Amboseli baboons</i>
10:30 AM	<b>Gavin Leighton</b>	<i>Local Weather Conditions Disrupt Intra- and Interspecific Aggressive Contests at Foraging Resources</i>



**Room: 525AB**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**The interplay between dispersal, plasticity, and adaptation in coping with changing environments**

9:30 AM

**Caitlin Miller**

*Evolution of dispersal and plastic generalism during range expansions*

9:45 AM

**Théo Chavanis**

*Climate and community structure of butterflies along an altitudinal gradient*

10:00 AM

**Jitka Polechová**

*Coevolution of species' range and niche in changing environments*

10:15 AM

**Katie Eaton**

*Thermal tolerance across a latitudinal gradient in a common coastal fish*

10:30 AM

**Christopher Carlson**

*Genotype-by-environment interactions maintain variation in mutualisms*



**Room: 518B**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**Parallel / convergent evolution I**

9:30 AM	<b>Shannan Yates</b>	<i>Testing for divergence in thermal physiology along an urban-rural gradient in the lizard <i>Anolis carolinensis</i> in New Orleans USA</i>
9:45 AM	<b>Peter Nimlos</b>	<i>Convergence in thermogenic traits in response to hypoxia across <i>Peromyscus</i> taxa</i>
10:00 AM	<b>Zeljka Pezer</b>	<i>Increase in copy number at multiallelic copy number variants facilitates rapid adaptation to caves</i>





**Room: 519AB**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**Phenotypic plasticity I**

9:30 AM	<b>Megan Barkdull</b>	<i>One genome, many phenotypes: evolutionary insights from complex traits in ants</i>
9:45 AM	<b>Paul Acker</b>	<i>How phenotypic plasticity interacts with evolution in discrete traits</i>
10:00 AM	<b>Isabelle Neylan</b>	<i>Developmental and transgenerational plasticity interactively affect thermal tolerance across populations of the splash pool copepod <i>Tigriopus californicus</i></i>
10:15 AM	<b>Allison Nalesnik</b>	<i>Insights into temperature adaptation: Comparing gene expression profiles in <i>Daphnia pulex</i></i>
10:30 AM	<b>Sarah Hasnain</b>	<i>Transgenerational plasticity to warming alters nutrient release by a keystone grazer</i>



**Room: 516B**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**Synthetic biology meets natural variation: fitness effects in the nature and the lab**

9:30 AM	<b>Bernard Kim</b>	<i>Ultra-precise mapping of natural selection in <i>Drosophila</i></i>
9:45 AM	<b>Stéphanie Bedhomme</b>	<i>Distributions of fitness effects of synonymous, non-synonymous and regulatory effects across environments</i>
10:00 AM	<b>Alexandra Khristich</b>	<i>Predicting evolutionary success of wild yeast strains from short-term fitness data</i>
10:15 AM	<b>Jose Aguilar-Rodriguez</b>	<i>The fitness landscape of an ancient signaling pathway</i>
10:30 AM	<b>Carl Stone</b>	<i>A Bayesian framework for longitudinal analysis of transposon insertion-based fitness screens</i>



**Room: 516C**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**Entangled evolution: synergies and trade-offs in correlated adaptations**

9:45 AM	<b>Jonathan Colen</b>	<i>Can flower color modulate selection on other floral traits in <i>I. cordatotriloba</i>?</i>
10:00 AM	<b>Ariane Chotard</b>	<i>Evolution of Swallowtail butterfly wing shape: a tradeoff between aposematism and aerodynamism?</i>
10:15 AM	<b>Dave Desmarais</b>	<i>Resource allocation changes underlying the evolution of life history syndromes in grasses</i>
10:30 AM	<b>Rebekah Davis</b>	<i>The evolution of photosynthesis; a case-study on function-valued trait variation in wild sunflower</i>



**Room: 516D**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**The evolution of reproductive fluids**

9:30 AM	<b>Li Zhao</b>	<i>The origin and evolution of sex peptide and sex peptide receptor interactions</i>
9:45 AM	<b>Piotr Michalak</b>	<i>Can seminal fluid proteins be honest signals of sperm availability?</i>
10:00 AM	<b>Yasir Ahmed-Braimah</b>	<i>The Evolution of Seminal Fluid and the Female Postmating Response in Drosophila</i>
10:15 AM	<b>Martin Garlovsky</b>	<i>Experimental host shifts reveal gene × environment interactions shaping male ejaculate composition in bedbugs</i>
10:30 AM	<b>Jolie Carlisle</b>	<i>Evolutionary and Functional Characterization of Female Control of the Mating Plug in Drosophila melanogaster</i>



**Room: 516E**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**Evolutionary ecology IV**

9:30 AM	<b>Mike Travisano</b>	<i>Eco-evolutionary origins of agency and biological innovation</i>
9:45 AM	<b>Justine Floret</b>	<i>Characterizing experimentally the limits of the natural urban niche of <i>Arabidopsis thaliana</i></i>
10:00 AM	<b>Laura Leventhal</b>	<i>Four range limit hypotheses tested in a climate manipulated common garden</i>
10:15 AM	<b>Cathy Hernandez</b>	<i>Rapid bacterial thermal adaptation through mutations impacting an integrated virus</i>
10:30 AM	<b>Trapper Hobbie</b>	<i>Assessing the impact of phenotypic plasticity on the evolutionary outcomes of <i>Spirodela polyrhiza</i> populations</i>



**Room: 520A**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**Host-parasite I**

9:30 AM	<b>Sara Oukkal</b>	<i>Viral domestication in Tachinid flies : a case of evolutionary convergence with parasitoid wasps ?</i>
9:45 AM	<b>Zoey DeLaney</b>	<i>Are monarch butterflies sicker than we thought? Discovery of cryptic sexual transmission of the virulent parasite <i>Ophryocystis elektroscirrha</i></i>
10:00 AM	<b>Monica Mowery</b>	<i>Testing co-invasion through population genomics of the brown widow spider and its egg sac parasitoid</i>
10:15 AM	<b>Nick Priest</b>	<i>Genetic trade-offs driven by host/parasite conflicts</i>
10:30 AM	<b>Matthew Waller</b>	<i>Genomic tracking of parasitic flies that threaten Darwin's finches</i>



**Room: 520B**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**The genetic basis of coevolution: beyond the dichotomy of matching alleles and gene-for-gene**

9:30 AM	<b>Ben Ashby &amp; Ailene MacPherson</b>	<i>Bringing coevolutionary genetics beyond the dichotomy of matching alleles and gene-for-gene</i>
9:45 AM	<b>Loraine Hablützel</b>	<i>Studying the genetic basis of ecological interactions with intergenomic epistasis</i>
10:00 AM	<b>Abbey Ramirez</b>	<i>Temperature alters host-parasite genetic specificity.</i>
10:15 AM	<b>Leeban Yusuf</b>	<i>Connecting micro and macroevolutionary genomic signatures of coevolution in an eavesdropping parasitoid fly and its field cricket hosts.</i>
10:30 AM	<b>Samuel Hulse</b>	<i>Host-Pathogen Coevolution Makes or Breaks Transmission Modes</i>



**Room: 520C**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**Predicting evolutionary responses to a changing world**

9:45 AM	<b>Rebekah Oomen</b>	<i>Towards genomic forecasting of biodiversity responses to environmental change</i>
10:00 AM	<b>Diana Rennison</b>	<i>Genomic signatures of climate adaptation and vulnerability in threespine stickleback</i>
10:15 AM	<b>Brandon Lind</b>	<i>Prospects and limitations of predicting maladaptation to changing environments</i>
10:30 AM	<b>Brittany Verrico</b>	<i>Reciprocal validation of genomic offset predictions of climate maladaptation with multiple, independent empirical datasets</i>





**Room: 520D**

**9:30 AM - 10:45 AM**

**Monday, July 29**

**What we can and cannot know through current and upcoming phylogenetic comparative methods**

9:30 AM	<b>Hsiao-Han Chang</b>	<i>Evaluating how the meaning of identical by descent varies with mutation and recombination rates</i>
9:45 AM	<b>Joy Zhichun Zhang</b>	<i>Combinatorial Analysis of the Behavior of Admixture in the Neighbor-Joining Algorithm</i>
10:00 AM	<b>Xianfa Xie</b>	<i>Why Have Most of the Phylogenetic Analysis of COVID Virus Evolution Been Wrong?</i>
10:15 AM	<b>Jonas Lescroart</b>	<i>Concordance Factors, a Paradigm Shift in Phylogenomics: Case Study of a Radiation of Small Cat Species in the Neotropics</i>
10:30 AM	<b>Peiyu Xu</b>	<i>Systematic evaluation of epidemiological inference methods through an agent-based genetic epidemiology simulator integrating epidemiological, ecological, and evolutionary processes</i>



# MONDAY, JULY 29: MORNING BREAK

## Evolutionary Biologists with Disabilities mixer

**Room: 725: 10:45 AM - 11:15 AM**

Breakout smaller group networking opportunities, during regular break times, but in a different space. Preregistration not required. Coffee/Tea/Snacks included.

## Coffee break

**Room: 220DE: 10:45 AM - 11:15 AM**

Coffee, Tea, Water & Snacks

### Exhibitor Booths:

- ASN/SSB/SSE/ESEB Grad Committees
- BES - British Ecological Society
- DataClassroom
- Joint Diversity Committee
- Journal of Evolutionary Biology
- Oikos
- Oxford University Press
- Princeton University Press
- Royal Society Publishing
- SSE Journals
- SSE Public Policy
- SySTEM BIO-LEAPS
- University of Chicago Press
- US National Science Foundation
- Vanderbilt University
- Yale University Press



**Room: 516A**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**Adaptation X**

11:15 AM	<b>Jonathan Rolland</b>	<i>Genomics of latitudinal adaptation in chinook salmon</i>
11:30 AM	<b>Prosanta Chakrabarty</b>	<i>Look Who's Walking Too: Genomics and kinematics of balitorid loaches can inform our understanding of the vertebrate transition to land</i>
11:45 AM	<b>Rus Hoelzel</b>	<i>Cryptic diversity in the deep sea</i>
12:00 PM	<b>Benjamin Blackman</b>	<i>Sunflower domestication in space and time</i> <b>WITHDRAWN</b>
12:15 PM	<b>Roos Goessen</b>	<i>Elucidating continental-wide phylogeographic and adaptive processes shaping the genome-wide diversity of North America's most widely distributed tree</i>



**Room: 520E**

**11:15 AM - 12:30 PM**

**Monday, July 29**

## **Phylogenomics II**

11:15 AM	<b>Charley McCarthy</b>	<i>Modeling site-and-branch heterogeneity in phylogenetic datasets with GFMix</i>
11:30 AM	<b>Todd Jackman</b>	<i>Using rapidly evolving long exon capture (RELEC) as an effective strategy for improving phylogenetic inference at many levels.</i>
11:45 AM	<b>Rémi Allio</b>	<i>The first example of extreme and independent host plant shifts mediated by parasitic plants in insects</i>
12:00 PM	<b>Eric Hagen</b>	<i>Integrating phylogenomic and paleobiological approaches to investigate the emergence of novelty in flowering plants</i>
12:15 PM	<b>Ana Serra Silva</b>	<i>Systematic errors inflate support for monophyletic Deuterostomia</i>



**Room: 520F**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**Population genetics theory / methods II**

11:15 AM	<b>Xiaoheng Cheng</b>	<i>diplo-locus: A lightweight toolkit for inference and simulation of time-series genetic data under general diploid selection</i>
11:30 AM	<b>Justin Conover</b>	<i>Variation Graph Pangenomes Improve Read Mapping and SNP Calling Accuracy in Divergent Populations</i>
11:45 AM	<b>TQ Smith</b>	<i>Lodestar: local decomposition and similarity to all regions</i>
12:00 PM	<b>Jacob Green</b>	<i>Development of expressed exome capture sequencing to assemble the exome of any organism rapidly and cost-effectively</i>
12:15 PM	<b>Victor Yan Kin Lee</b>	<i>An Algorithm for Optimally Partitioning Spatiotemporal Archaeological and Genetic Data</i>



**Room: 523AB**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**Speciation II**

11:15 AM	<b>Mysia Dye</b>	<i>Uncovering incompatibilities in sex determining regions in darters</i>
11:30 AM	<b>Alexandra Sumarli</b>	<i>Exploring genomic divergence between two sympatric stickleback ecotypes</i>
11:45 AM	<b>Frederico Henning</b>	<i>On the genetic and ecological causes of the Juanita cichlids adaptive radiations (Cichlidae: Crenicichla)</i>
12:00 PM	<b>Greer Dolby</b>	<i>Regulatory divergence underlies ecological adaptation of chronobiological functions in speciating desert tortoises</i>
12:15 PM	<b>Frank Burbrink</b>	<i>Understanding species limits through the formation of phylogeographic lineages</i>



**Room: 524A**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**Genomics X**

11:15 AM	<b>Brian Kirz</b>	<i>Insights into rapid genome size evolution in squirrels</i>
11:30 AM	<b>Alyssa Vanerelli</b>	<i>Using the high-quality genome of <i>Anolis grahami</i> to infer squamate relationships</i>
11:45 AM	<b>Andy Baxevanis</b>	<i>The genome of the colonial hydroid <i>Hydractinia</i> reveals their stem cells utilize a toolkit of evolutionarily shared genes with all animals</i>
12:00 PM	<b>Walter Paulin Tapondjou</b>	<i>Systematics and phylogeography of West-Central African night frog (genus: <i>Astylosternus</i>)</i>
12:15 PM	<b>Nicole Valenzuela</b>	<i>Novel pattern of 3D genome folding for amniotes revealed by de novo genome assemblies of two turtles (<i>Apalone spinifera</i> – ZZ/ZW and <i>Staurotypus triporcatus</i> – XX/XY)</i>



**Room: 524B**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**Intraspecific variation and its role in eco-evolutionary dynamics**

11:15 AM	<b>Nadja Verspagen</b>	<i>Warming induces divergent plastic responses in gene expression and life history traits across a latitudinal cline</i>
11:30 AM	<b>Linyi Zhang</b>	<i>Does a latitudinal cline in phenotype reflect latitudinal trends in selection?: A continental study on gall size for <i>Eurosta solidaginis</i></i>
11:45 AM	<b>Matt Elmer</b>	<i>Seasonal clines and adult acclimation experiments highlight the importance of phenotypic plasticity in thermal tolerance in an Australian native bee (<i>Exoneura robusta</i>)</i>
12:00 PM	<b>Abhimanyu Lele</b>	<i>Comparative patterns of microevolutionary divergence along a steep environmental gradient</i>
12:15 PM	<b>Bertille Mohring</b>	<i>Inter-individual variation in the temporal scale of resource allocation trade-offs in a long-lived seabird breeding under contrasted environmental conditions</i>





**Room: 524C**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**Life history I**

11:15 AM	<b>Freya Pappert</b>	<i>The effect of parental age on the quantity and quality of offspring in <i>Syngnathus typhle</i>, a species with male pregnancy.</i>
11:30 AM	<b>Rebekah McKinnon</b>	<i>Species longevity does not mediate the trade-off between investment in current versus future reproduction in birds: a systematic review &amp; meta-analysis</i>
11:45 AM	<b>Carol Boggs</b>	<i>Fitness consequences of variable food stress</i>
12:00 PM	<b>Rabi Sankar Pal</b>	<i>Selection for faster development and early reproduction ameliorates the cost of reproduction in males, but not in females</i>



**Room: 525AB**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**The interplay between dispersal, plasticity, and adaptation in coping with changing environments**

11:15 AM	<b>Julie Verheyen</b>	<i>Pesticide exposure reinforces the stabilizing effect of thermal evolution on predator-prey systems</i>
11:30 AM	<b>Justin Van Goor</b>	<i>The worm turns: Parasitodiplogaster nematodes as a model to study phenotypic plasticity in an eco-evo framework</i>
11:45 AM	<b>Natasha Gillies</b>	<i>Behavioural impacts on reproduction in a dynamic environment: fitness insights from two contrasting species of albatross</i>
12:00 PM	<b>Daniela Souza Costa</b>	<i>Diving into genomic depths: exploring cichlid fish diversity via demographic and connectivity analyses</i>
12:15 PM	<b>Sheri Johnson</b>	<i>Genetic and mitochondrial contributions to thermal resilience in New Zealand triplefins</i>



**Room: 518B**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**Parallel / convergent evolution II**

11:15 AM	<b>Kenneth Welch</b>	<i>Amino acids at the races: vampire bats rapidly fuel running with blood meal protein</i>
11:30 AM	<b>NaRa Shin</b>	<i>Unraveling the evolutionary scenario: predicted protein structure and phylogeny infer the convergent evolution of GH28 in the families Cerambycidae and Buprestidae, which diverged 250 million years ago</i>
11:45 AM	<b>Danielle Drabeck</b>	<i>Gene loss and relaxed selection of <i>plaat1</i> in vertebrates adapted to low-light environments</i>
12:00 PM	<b>Yen-Wen Wang</b>	<i>Parallel evolution in gene expression during the spore germination of the mycoparasites, <i>Trichoderma asperelloides</i> and <i>Tolypocladium ophioglossoides</i></i>
12:15 PM	<b>Aurora Nedelcu</b>	<i>Convergence via co-option of phenotypic plasticity during the evolution of multicellularity and cancer</i>



**Room: 519AB**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**Phenotypic plasticity II**

11:15 AM	<b>Christina Steinecke</b>	<i>Plastic drought response in annual Texas Phlox</i>
11:30 AM	<b>Baxter Worthing</b>	<i>Unraveling the genetic architecture of bud flush timing in two hybridizing Populus species in order to predict phenological responses to future climates</i>
11:45 AM	<b>Jesse Weber</b>	<i>Cestode tegument width is a plastic and potentially adaptive trait connected to genetic differences in host immunity</i>
12:00 PM	<b>Stephen Dreyer</b>	<i>Natural variation in a polyphenism reveals a convergent genomic target of plasticity evolution</i>
12:15 PM	<b>Kristofer Bauer</b>	<i>Environmental stress tolerance and differential gene expression of Calanus marshallae: Implications for its future distribution in the Northern California Current System</i>



**Room: 516B**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**A vision of the future: integrating perspectives in the evolution of visual systems**

11:15 AM	<b>Emily Kopania</b>	<i>The evolution of high visual acuity specializations in mammals</i>
11:30 AM	<b>Jose Borrero</b>	<i>Changes in visual acuity and sensory weighting reflects patterns of neural investment during ecological divergence in Heliconius butterflies.</i>
11:45 AM	<b>Madison Janakis</b>	<i>Visual ecology of tidal creeks: how two types of crab approach a challenging light environment</i>
12:00 PM	<b>Joséphine Ledamoisel</b>	<i>Is reinforcement shaping the evolution of color perception in Morpho butterflies ?</i>
12:15 PM	<b>Esteban Fernandez-Juricic</b>	<i>Contrasting limitations on the visual systems of avian “prey” and avian “predators”: a synthesis</i>



**Room: 516C**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**Entangled evolution: synergies and trade-offs in correlated adaptations**

11:15 AM	<b>Aaditya Narasimhan</b>	<i>Variation in the genetic architecture along species' elevational ranges</i>
11:30 AM	<b>Yehu Moran</b>	<i>How animal venom shapes interspecific interactions and evolutionary trade-offs</i>
11:45 AM	<b>Saubhik Sarkar</b>	<i>Immunity in the context of ageing and evolution</i>
12:00 PM	<b>Sara Magalhães</b>	<i>Exploring the correlation between <math>r</math> and <math>K</math> in spider mites</i>
12:15 PM	<b>Hoang Khoi Nguyen Le</b>	<i>White eye-rings in rodents: their correlated evolution with diurnalism and potential role in intra-species recognition</i>



**Room: 516D**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**The evolution of reproductive fluids**

11:15 AM	<b>Fay Morland</b>	<i>The cost of sex: how seminal fluid shapes female life history</i>
11:30 AM	<b>Emma Whittington</b>	<i>Population divergence in reproductive -omics</i>
11:45 AM	<b>Carl Soulsbury</b>	<i>Biophysics of sperm movement in reproductive fluid</i>
12:00 PM	<b>Rachel Thayer</b>	<i>Specialized cell types and gene expression evolution in the Drosophila female reproductive tract</i>
12:15 PM	<b>Bernadette Johnson</b>	<i>The evolution of the gonad transcriptomes in pregnant male pipefishes and seahorses</i>



**Room: 516E**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**Evolutionary ecology V**

11:15 AM	<b>Conor Gilligan</b>	<i>Genomics of adaptation in an emerging marine annelid model</i>
11:30 AM	<b>Shayna Earl</b>	<i>In a changing climate, how does variation in pond temperature affect larval growth development in salamanders?</i>
11:45 AM	<b>Ashley Reynolds</b>	<i>Investigating the evolution of growth in Felidae using osteohistology</i>
12:00 PM	<b>Milan Vrtílek</b>	<i>Quality over quantity? Parental senescence effects in an annual killifish</i>
12:15 PM	<b>Beniamino Tuliozi</b>	<i>Genetic correlations between annual and lifetime fitness metrics in female baboons</i>





**Room: 520A**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**Host-parasite II**

11:15 AM	<b>Randi Barton</b>	<i>Population genetic analysis highlights how transmission strategy influences dispersal capacity in representative marine trematodes</i>
11:30 AM	<b>Calum Stephenson</b>	<i>Genome reduction and interspecies competition in a group of facultative endosymbiotic bacteria</i>
11:45 AM	<b>Youngseo Jeong</b>	<i>Investigating the mechanisms behind vaccine-driven virulence evolution of malaria parasites</i>
12:00 PM	<b>Suegene Noh</b>	<i>Horizontal transmission via type 6 secretion systems in Paraburkholderia symbionts of social amoebas</i>
12:15 PM	<b>Chuan Ku</b>	<i>Host-calibrated time tree caps the age of giant viruses and their transitions from amoebal to animal hosts</i>



**Room: 520B**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**Recombination rate variation: causes, consequences and evolution**

11:15 AM	<b>Matthew Hahn</b>	<i>Estimating recombination using only the allele frequency spectrum</i>
11:30 AM	<b>Carl Veller</b>	<i>What is the heritability of recombination?</i>
11:45 AM	<b>Tom Paree</b>	<i>Selection for recombination impairs adaptation in <i>Caenorhabditis elegans</i></i>
12:00 PM	<b>Rob Melde</b>	<i>Meiotic recombination as a sex-specific source of new mutations in <i>Drosophila melanogaster</i></i>
12:15 PM	<b>Spencer Koury</b>	<i>Global increase of recombination compensates for local crossover suppression in inversion heterozygotes but does not mitigate fitness decline: a meta-analysis of <i>Drosophila</i> studies</i>



**Room: 520C**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**Predicting evolutionary responses to a changing world**

11:15 AM	<b>Levi Newediuk</b>	<i>Climate change, age acceleration, and the erosion of fitness in polar bears</i>
11:30 AM	<b>Nic John Kooyens</b>	<i>Responses to extreme climatic events: Selection as a silver lining or an evolutionary trap?</i>
11:45 AM	<b>Daniel Anstett</b>	<i>Predicting evolutionary rescue using landscape genomics</i>
12:00 PM	<b>Donna Hinrichs</b>	<i>Rapid evolutionary rescue follows assisted gene flow in threatened <i>Mimulus guttatus</i> populations</i>
12:15 PM	<b>Emily Harmon</b>	<i>Plasticity promotes population persistence</i>



**Room: 520D**

**11:15 AM - 12:30 PM**

**Monday, July 29**

**What we can and cannot know through current and upcoming phylogenetic comparative methods**

11:15 AM	<b>Ailene MacPherson</b>	<i>The Hidden Role of Tree Size in Diversification Inference: Applications in Macroevolution &amp; Epidemiology</i>
11:30 AM	<b>Matheus Januario</b>	<i>Taxonomic decisions impact macroevolutionary inference from molecular phylogenies</i>
11:45 AM	<b>Tom Carruthers</b>	<i>Plant evolution at different phylogenetic scales</i>
12:00 PM	<b>Laura Alencar</b>	<i>Opportunity Begets Opportunity to Drive Macroevolutionary Dynamics of a Diverse Lizard Radiation</i>
12:15 PM	<b>Gustavo Burin</b>	<i>Mutualism breakdowns in time and space: the need for branch-specific rates</i>



# MONDAY, JULY 29: LUNCHTIME EVENTS

**Lunch break (On your own): 12:30 PM - 2:30 PM**

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## **Increasing your publishing success in society journals workshop**

**Room: 519ab: 1:00 PM - 2:15 PM**

**Description:** Learn more about the publishing process. This session will include aspects such as how to select a journal, how to maximize your chances of acceptance of your paper, publishing ethics, peer review systems, open science, promoting your research, and the benefits of publishing in Society journals. This session is aimed at early career researchers but we also welcome more experienced authors and reviewers. This session will be run by Nicola Cook from ESEB and Helen Eaton and Shalene Singh-Shepherd from The Royal Society journals team. We will be happy to answer questions about any aspect of the publishing process. (Admission is free. Preregistration not required).

Lunch is not provided, but a kiosk is available in the lobby of 517 to purchase food if you wish to bring your own. Please note that, by building policy, no food from outside the convention center can be brought in.

## **Professional (r)Evolution workshop**

**Room: 725: 12:30 PM - 2:30 PM**

**Description:**

We often enter science with innate curiosity and an adventurous spirit. But academia can drain our intrinsic motivation and make us feel like we are living by someone else's rules. This workshop will help you integrate your personal and professional goals and give you new tools for your quest. Bree Rosenblum (Professor at UC Berkeley) will share strategies developed over the last 20+ years for putting yourself back in the center of your story. Open to all career stages. (Pre-registration required. Lunch included. Cost= 30 USD)

**Joint Council exit meeting (For Joint Council Members only).**

**Room: 445B: 12:30 PM - 2:30 PM**



**Room: 516A**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**Adaptation XI**

2:30 PM	<b>Nathalie Alomar</b>	<i>Physiological and morphological trait diversity in <i>Plethodon salamanders</i></i>
2:45 PM	<b>Mayara Neves</b>	<i>Under cold waters: investigating the influence of extreme environments on skull evolution in icefishes (<i>Notothenioidei</i>)</i>
3:00 PM	<b>Rohit Kapila</b>	<i>Fitness Consequences of Mutation Purging: SNP and Structural Variation Dynamics Across <i>C. elegans</i> Strains</i>
3:15 PM	<b>Cheng-Ruei Lee</b>	<i>Environment as a limiting factor of the historical range expansion of mungbean</i>
3:30 PM	<b>Anna Tigano</b>	<i>The genomic basis of ecotypic differentiation in sockeye salmon</i>



**Room: 520E**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**Phylogenomics III**

2:30 PM	<b>Susana Almeida</b>	<i>Evolutionary Divergence And Genetic Structure In Southern Kelps</i> <b>WITHDRAWN</b>
2:45 PM	<b>Ty Pan</b>	<i>Investigating Sabethini mosquitoes and the loss of blood-feeding</i>
3:00 PM	<b>Mozes Blom</b>	<i>Using natural history collections and genomics to study population change over long and short evolutionary time scales</i>
3:15 PM	<b>Frederic Delsuc</b>	<i>A genomic view of the xenarthran radiation</i>
3:30 PM	<b>Blake Fauskee</b>	<i>Evidence that RNA editing in ferns performs as a gene-regulating mechanism in organellar genomes</i>



**Room: 520F**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**Population genetics theory / methods III**

2:30 PM	<b>Mark Milhaven</b>	<i>DETECT (De novo Mutation Extraction Through Experimental Cutoff Thresholds)</i>
2:45 PM	<b>Andrius Dagilis</b>	<i>The co-evolutionary network of 155 species of Drosophila</i>
3:00 PM	<b>Paul Savary</b>	<i>Inferring drivers of gene flow in landscape genetics: distance-based versus spatial eigenvector-based models</i>
3:15 AM	<b>Pany Decossard</b>	<i>On the geological origin of biochemistry.</i>





**Room: 523AB**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**Speciation III**

2:30 PM

**Shelley Sianta**

*Do fine-scale spatial patterns of introgression vary among secondary contact zones between two *Clarkia* taxa?*

2:45 PM

**Brooke Kern**

*Reproductive character displacement reduces opportunities to hybridize in a pair of *Clarkia* taxa*

3:00 PM

**Valeria Schmidt**

*Locus-specific consequences of hybrid sterility in *Phlox**

3:15 PM

**Keyi Feng**

*Mountain climatic gradient and speciation rate in the plant order *Ericales**

3:30 PM

**Anna Feller**

*Prezygotic isolation in perennial *Phlox* mediated by pollen-pistil interactions*



**Room: 524A**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**Genomics XI**

2:30 PM	<b>Sydney Harned</b>	<i>Population Genetic Dynamics of Juvenile Southern Flounder in North Carolina</i>
2:45 PM	<b>Blair Perry</b>	<i>Regulatory evolution and physiological adaptation: insight from hibernation in bears</i>
3:00 PM	<b>Hannah Aichelman</b>	<i>Investigating the genomic basis of mimetic color pattern variation among hybridizing populations of admiral butterflies (genus <i>Limenitis</i>) in the western United States</i>
3:15 PM	<b>Timothy Colston</b>	<i>Rapid invasion of apex predators in a tropical island and metagenomic interactions of species invasions</i>
3:30 PM	<b>Alan Brelsford</b>	<i>Rapid evolution of genome size mediated by centromere expansion and contraction in <i>Formica</i> ants</i>



**Room: 524B**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**Intraspecific variation and its role in eco-evolutionary dynamics**

2:30 PM	<b>Maggie Grundler</b>	<i>Dietary specialization and population genomics in <i>Thamnophis</i> garter snakes</i>
2:45 PM	<b>Carys Jones</b>	<i>Reproductive timing in wild great tits: considering the environment in estimates of heritability &amp; multiple brooding</i>
3:00 PM	<b>Mariya Kozak</b>	<i>Experimental evolution reveals physiological and ecological costs in herbivores that suppress plant defences</i>
3:15 PM	<b>Emily Longman</b>	<i>An Experimental Test of Eco-evolutionary Dynamics on Rocky Shores</i>
3:30 PM	<b>Amina Mohamed</b>	<i>The evolution of stoichiometric traits in Trinidadian guppies</i>



**Room: 524C**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**Life history II**

2:30 PM	<b>Jessica Foley</b>	<i>The evolution of long life: a case study in butterflies</i>
2:45 PM	<b>David Bahry</b>	<i>The long-run evolution of aging</i>
3:00 PM	<b>Elizabeth Drake</b>	<i>Sex-specific effects of early-life adversity on first year survival, reproductive success and longevity in the Soay sheep (<i>Ovis aries</i>) of St Kilda.</i>
3:15 PM	<b>Juliette Barbeau</b>	<i>The interplay between reproduction and telomere length variation in female Tree swallows</i>
3:30 PM	<b>Victor Ronget</b>	<i>Comparative Analyses of the Determinants of Lifespan in <i>Drosophila melanogaster</i></i>



**Room: 525AB**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**The interplay between dispersal, plasticity, and adaptation in coping with changing environments**

2:30 PM	<b>Mabel Fuentes Vergara</b>	<i>Identification of candidate genes involved in flavonoid pathways of <i>Lythrum salicaria</i> (purple loosestrife) to study hypotheses of invasion success.</i>
2:45 PM	<b>Andy Lee</b>	<i>Transcriptomics in a warming sea: a case study in adaptation across a biogeographic boundary.</i>
3:00 PM	<b>Alison Hall</b>	<i>Strong transcriptomic response to elevated temperature underlies the developmental plasticity of a thermal tolerance trait in the coastal copepod, <i>Acartia tonsa</i></i>
3:15 PM	<b>Moises Bernal</b>	<i>Responses of coral reef fishes to ocean warming and habitat degradation</i>
3:30 PM	<b>Erin Chille</b>	<i>Gene expression response to physiological stress in two Hawaiian corals is dominated by ploidy and genotype</i>



**Room: 518B**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**Parallel / convergent evolution III**

2:30 PM

**Tonia Schwartz**

*Repeated evolution of insular dwarfism across three reptile species with population and functional genomic insights.*

2:45 PM

**Travis Hagey**

*Early burst of parallel evolution describes the diversification of gecko toe pads*

3:00 PM

**Xuening Zhang**

*Generalist floral syndromes of the temperate Coreopsidae (Asteraceae): from multi-modal display traits to predicting broad-scale pollinator associations*

3:15 PM

**Moritz Blumer**

*The genetic basis of repeated ecotype differentiation in a Malawi cichlid*



**Room: 519AB**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**Systematics I**

2:30 PM

**Sarah Morris**

*The Fishing Spider Conundrum: Paraphyly and the Restoration of the Family Dolomedidae*

2:45 PM

**Chloe Jelley**

*The Evolutionary History of the Rainbow Ants*

3:00 PM

**Ricardo Betancur**

*Phylogenomic and comparative genomic analyses support a single evolutionary origin of flatfish asymmetry*

3:15 PM

**Julia Wood**

*Temporal diversification of Percidae*



**Room: 516B**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**A vision of the future: integrating perspectives in the evolution of visual systems**

2:30 PM	<b>Leo Fleishman</b>	<i>Visual-system/light-environment interactions shape the evolution of Anolis lizard signal colors.</i>
2:45 PM	<b>Kiyoko Gotanda</b>	<i>A fish-eye view of male guppy colour</i>
3:00 PM	<b>Jeff Dudycha</b>	<i>Sexual dimorphism and the reproductive costs of eyes in Daphnia</i>
3:15 PM	<b>Parker Hughes</b>	<i>Overtuning a Century of Thought: evolutionary patterns of pupillary light responses in animals with “immobile pupils”</i>
3:30 PM	<b>Julián Torres-Dowdall</b>	<i>Variability in the rate of plasticity of opsin gene expression across populations and developmental stages in cichlids</i>





**Room: 516C**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**ESEB John Maynard Smith Prize and ESEB under-represented ECR achievement award (EUEA)**

2:30 PM      **Magdalena Bohutínská**      *Genetics of repeated adaptation: insights from alpine Arabidopsis and beyond*

3:00 PM      **Emily Roycroft**      *Genetic purging in remnant island populations of threatened Australian mammals*

3:15 PM      **Olivia Harringmeyer**      *The evolution of an inversion supergene in deer mice*

3:30 PM      **Paul Bangura**      *From Child Soldier to Scholar: Exploring the Genetic Bases of Behaviour on Salmon Maturation*



**Room: 516D**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**The genomics of mate choice**

2:30 PM	<b>Alberto Corral Lopez</b>	<i>Sexual selection and the brain: neural mechanisms of mate preferences in the guppy</i>
2:45 PM	<b>Wouter van der Bijl</b>	<i>The complex genetic architecture of male guppy color patterns</i>
3:00 PM	<b>Emily Behrman</b>	<i>The genetic basis of neural circuit evolution for <i>Drosophila</i> mate preferences</i>
3:15 PM	<b>Kathy Darragh</b>	<i>A novel enzyme underlying the production of an anti-aphrodisiac compound in <i>Heliconius</i> butterflies</i>
3:30 PM	<b>Richard Merrill</b>	<i>Looking for love: Genomics of visual mating preference evolution in <i>Heliconius</i> butterflies</i>



**Room: 516E**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**Evolutionary ecology VI**

2:30 PM	<b>Haley Branch</b>	<i>Rapid evolution to drought and climatic variability in <i>Mimulus cardinalis</i></i>
3:00 PM	<b>Chloe Fouilloux</b>	<i>Beyond the Plate: Spillover of antimicrobial resistance to wild populations</i>
3:15 PM	<b>Sarah Britton</b>	<i>Population level differences in melanin pigmentation plasticity</i>
3:30 PM	<b>Antoine Fages</b>	<i>Cellular evolution and ecological adaptations in the intestinal tract of cichlid fishes from Lake Tanganyika</i>



**Room: 520A**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**Host-parasite III**

2:30 PM	<b>Acer VanWallendael</b>	<i>Local adaptation of both plant and pathogen: an arms-race compromise in switchgrass rust</i>
2:45 PM	<b>Emlyn Resetarits</b>	<i>Parasites exhibit an inverse latitudinal gradient in a wide-ranging marine snail</i>
3:00 PM	<b>McCall Calvert</b>	<i>The fingerprints of host-associated selection in the genome of a hypergeneralist parasite</i>
3:15 PM	<b>Hannah Guss</b>	<i>Genome-scale insight into schistosomiasis reemergence highlights local persistence, multiple hosts, and genomic selective sweeps associated with extreme control measures.</i>
3:30 PM	<b>Linyao Peng</b>	<i>Natural genetic variation in transgenerational immune priming: a case study with <i>C. elegans</i> and its natural microsporidian parasite</i>



**Room: 520B**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**Recombination rate variation: causes, consequences and evolution**

2:30 PM	<b>Yuheng Huang</b>	<i>Epigenetic Silencing of Transposable Elements Drives Variation in Recombination Landscapes</i>
2:45 PM	<b>Audald Lloret-Villas</b>	<i>Investigating crossover and non-crossover recombination rates in aye-ayes (<i>Daubentonia madagascariensis</i>)</i>
3:00 PM	<b>Marie Raynaud</b>	<i>Population genomics support PRDM9-dependent recombination landscapes in salmonids</i>
3:15 PM	<b>Yuying Rong</b>	<i>Constructing high-resolution recombination landscapes for <i>Brassica rapa</i> from single-cell sequencing thousands of plant pollen.</i>
3:30 PM	<b>Marion Talbi</b>	<i>Rapid evolution of recombination landscapes during the divergence of cichlid ecotypes in Lake Masoko</i>



**Room: 520C**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**Predicting evolutionary responses to a changing world**

2:30 PM	<b>Robert Colautti</b>	<i>Genostasis and the species niche</i>
2:45 PM	<b>Marion Thauereau</b>	<i>Exploring phenotypic evolution as a consequence of changes in the adaptive landscape across lineages and timescales</i>
3:00 PM	<b>Kevin Bairos-Novak</b>	<i>How effective are assisted evolution interventions in conferring climate change resilience to corals?</i>
3:15 PM	<b>Thomas Wildeboer</b>	<i>Multivariate analyses reveal when <math>P</math> can be used for making evolutionary predictions instead of <math>G</math></i>
3:30 PM	<b>Andres Cortes</b>	<i>Genomic Prediction of Climate Change Adaptation in Common Bean (<i>Phaseolus vulgaris</i> L.) × Tepary bean (<i>P. acutifolius</i> A. Gray) Inter-specific Hybrids at the Caribbean Coast of Colombia</i>



**Room: 520D**

**2:30 PM - 3:45 PM**

**Monday, July 29**

**What we can and cannot know through current and upcoming phylogenetic comparative methods**

2:30 PM	<b>Bruce Martin</b>	<i>A new approach for inferring state-dependent variation in continuous trait evolution dynamics</i>
2:45 PM	<b>Priscilla Lau</b>	<i>A Bayesian joint inference approach to model continuous trait adaptation using the state-dependent Ornstein-Uhlenbeck model</i>
3:00 PM	<b>Emily Griffith</b>	<i>Why ducks have changed their colors: The importance of evaluating character coding in phylogenetic comparative methods</i>
3:15 PM	<b>Dean Adams</b>	<i>Extending phylogenetic regression models for comparing within-species patterns across the tree of life</i>
3:30 PM	<b>Sophie-Luise Heidig</b>	<i>Investigating evolutionary trajectories of proteins in marine <i>Synechococcus cyanobacteria</i></i>



# MONDAY, JULY 29: AFTERNOON BREAK

## John Edmonstone coffee social for BIPOC scientists

**Room: 725**

**3:45 PM - 4:15 PM**

Breakout smaller group networking opportunities, during regular break times, but in a different space. Preregistration not required. Coffee/Tea/Snacks included.

## Coffee break

**Room: 220DE**

**3:45 PM - 4:15 PM**

Coffee, Tea, Water & Snacks

Exhibitor Booths Include:

- ASN/SSB/SSE/ESEB Grad Committees
- BES - British Ecological Society
- DataClassroom
- Joint Diversity Committee
- Journal of Evolutionary Biology
- Oikos
- Oxford University Press
- Princeton University Press
- Royal Society Publishing
- SSE Journals
- SSE Public Policy
- SySTEM BIO-LEAPS
- University of Chicago Press
- US National Science Foundation
- Vanderbilt University
- Yale University Press





**Room: 516A**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**Adaptation XII**

4:30 PM	<b>Henry Arenas-Castro</b>	<i>The genetic and ecological bases of species persistence in two Monkeyflowers with weak reproductive isolation</i>
4:45 PM	<b>Anoob Prakash</b>	<i>Unraveling the genetic architecture of local adaptation in species with a history of introgression</i>
5:00 PM	<b>Ethan Newman</b>	<i>A test of the Grant-Stebbins pollinator shift model of floral evolution</i>
5:15 PM	<b>Guillaume Chomicki</b>	<i>Convergence in carnivorous pitcher plants reveals a mechanism for composite trait evolution</i>



**Room: 520E**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**Phylogenetic theory**

4:15 PM	<b>Mike Steel</b>	<i>Properties of phylogeny-based measures of evolutionary diversity</i>
4:30 PM	<b>Brenen Wynd</b>	<i>Reexamining the need for among character rate variation in morphological phylogenetics</i>
4:45 PM	<b>Alessio Capobianco</b>	<i>Among-character rate variation and the quest for an appropriate morphological model in Bayesian phylogenetics</i>
5:00 PM	<b>Bryan Currie</b>	<i>Measuring tree balance using the stairs2 index: A new result regarding extremal trees</i>
5:15 PM	<b>Michelle Su</b>	<i>Evolutionary pattern and process in <i>Dendroaster sand dollars</i>: what we can learn from a rich fossil record</i>



**Room: 520F**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**Population genetics VII**

4:15 PM	<b>John Burley</b>	<i>Spatial population genomics of trees with satellite-based phenotyping</i>
4:30 PM	<b>Julie Jung</b>	<i>Novel nematodes from Utah's Great Salt Lake may survive extreme salinity with help from their microbiota</i>
4:45 PM	<b>Brock Wooldridge</b>	<i>Limited genomic signatures of population collapse in the critically endangered black abalone (<i>Haliotis cracherodii</i>)</i>
5:00 PM	<b>(John) Terbot</b>	<i>Inferring the demographic history of aye-aye, <i>Daubentonia madagascariensis</i>, populations</i>
5:15 PM	<b>Cassidy D'Aloia</b>	<i>Limited dispersal does not elevate genetic relatedness within a group-living coral reef fish</i>



**Room: 523AB**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**Speciation IV**

4:15 PM

**Raunak Sen**

*Limited ecological differentiation between closely related sympatric Hawaiian cricket species: implications for speciation*

4:30 PM

**Christian Rabeling**

*Exploring the convergent evolutionary origins of social parasitic life history syndromes in ants*

4:45 PM

**Tanner Myers**

*Does genomic variation mirror (a lack of) phenotypic variation in a widespread butterfly?*

5:00 PM

**Gustavo Darlim**

*Incorporation of cryptic species affects diversification dynamic analysis in Crocodylia*

5:15 PM

**Alan Lemmon**

*Neural circuit evolution drives behavioral divergence during speciation by reinforcement*



**Room: 524A**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**Genomics XII**

4:15 PM	<b>Lindsay Miles</b>	<i>Bed bug genome-wide patterns of demographic history mirror human global expansion</i>
4:30 PM	<b>Danny Jackson</b>	<i>Genomic Evolution in Darwin's Finches in Response to a Novel Parasite</i>
4:45 PM	<b>Katie McHugh</b>	<i>Genome- and transcriptome-wide analysis of advanced age in outbred populations of <i>Saccharomyces cerevisiae</i></i>
5:00 PM	<b>Arne Jacobs</b>	<i>The genomic basis of parasitism loss in European lamprey.</i>
5:15 PM	<b>Félix Labrecque</b>	<i>Genetics basis of alternative migratory tactics: the case of the Dolly Varden (<i>Salvelinus malma</i>)</i>



**Room: 524B**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**Intraspecific variation and its role in eco-evolutionary dynamics**

4:15 PM	<b>Hanna Makowski</b>	<i>Seeing the forest for its trees: understanding the genetic vs. environmental correlates of intraspecific variation in tree leaf phenology</i>
4:30 PM	<b>Alyssa Phillips</b>	<i>The consequences of polyploidy in adaptation of a dominant prairie grass</i>
4:45 PM	<b>Suman Das</b>	<i>Interplay of genetic interactions and tradeoffs guides the adaptive evolution of trait diversity during resource competition</i>
5:00 PM	<b>Vitor Sudbrack</b>	<i>The evolution of genetic architecture under locally and globally disruptive selection</i>
5:15 PM	<b>Nitin Ravikanthachari</b>	<i>Genetic Mechanisms underlying Preference-Performance Mismatches: Insights from a Specialized Native Herbivore on an Invasive Toxic Plant</i>



**Room: 524C**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**Life history III**

4:15 PM	<b>Austin Link</b>	<i>Interrogating the evolution of host-microbe interactions in fig worms</i>
4:30 PM	<b>Richard Meitern</b>	<i>Comparative Analysis of Toxicity Sensitivity and Life-History Traits in Fish: A Meta-Analysis Approach</i>
4:45 PM	<b>Sofia D'Angelo</b>	<i>Influence of environmental variation on maternal life history responses in divergent brook trout populations</i>
5:00 PM	<b>Andrea Scharf</b>	<i>wormPOP – a laboratory and simulation platform to study the impact of life history traits on <i>C. elegans</i> population dynamics</i>
5:15 PM	<b>Ana Sofia Lindeza</b>	<i>A common-garden experiment reveals additive effects of two life-history loci on age-at-maturity in Atlantic salmon</i>



**Room: 525AB**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**The interplay between dispersal, plasticity, and adaptation in coping with changing environments**

4:15 PM	<b>Robin Francis</b>	<i>Plasticity of larval dispersal-related traits in the orange anemonefish</i>
4:30 PM	<b>Andrea Estandia</b>	<i>The effects of immigration in a wild great tit metapopulation inferred from genome-wide data</i>
4:45 PM	<b>Subhasish Halder</b>	<i>Habitat fragmentation, sex-biased dispersal and sexual conflict: what can experiments on fruit flies tell us?</i>
5:00 PM	<b>Kelton Cheung</b>	<i>Provenance may confound studies of rapid evolution during invasion</i>
5:15 PM	<b>Louisa Bartkovich</b>	<i>Assessing the influence of local climatic conditions on flowering strategies in the wildflower <i>Clarkia pulchella</i></i>





**Room: 518B**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**Methods / techniques**

4:15 PM	<b>Sandra Winters</b>	<i>TOCing with birds: Using touchscreen-equipped operant chambers to study protective coloration in moving prey</i>
4:30 PM	<b>Anne Chambers</b>	<i>The impact of missing data imputation on genotype-environment association methods</i>
4:45 PM	<b>Robert Porch</b>	<i>A phenotypic database of prokaryotes to facilitate functional predictions in microbiome surveys</i>
5:00 PM	<b>Sara Ryding</b>	<i>Measuring avian bill size: comparing and evaluating 3D surface scanning with traditional size estimates in Australian birds</i>



**Room: 519AB**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**Systematics II**

4:15 PM      **Emily Jane McTavish**      *A complete and dynamic tree of birds*

4:30 PM      **Julia Van Etten**      *Alignment-free phylogenetics to increase the value of environmental genomic data*

4:45 PM      **Simone Gable**      *Assessing biological and artifactual drivers of a “perfect storm” for phylogenomic discordance in the squamate Tree of Life*

5:00 PM      **Mark Stukel**      *Comparison of phylogenetic network methods in untangling New Zealand cicada hybridization*



**Room: 516B**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**A vision of the future: integrating perspectives in the evolution of visual systems**

4:15 PM	<b>Gianni Castiglione</b>	<i>Convergent evolution of dim-light vision in owls and deep-diving whales</i>
4:30 PM	<b>Golnar Jalilvand</b>	<i>Molecular Evolution of Visual Opsin Genes in Side-neck and Hidden-neck Turtles</i>
4:45 PM	<b>Yihang Zhao</b>	<i>Molecular evolution of snake visual developmental genes and implications for visual adaptation</i>
5:00 PM	<b>Taegan Perez</b>	<i>Beyond the Visual Field: Identifying Shifts in Selective Pressures on Anuran Phototransduction Genes Across Differing Photic Environments</i>
5:15 PM	<b>Maxime Policarpo</b>	<i>Evolutionary dynamic of opsin genes in ray-finned fishes</i>



**Room: 516C**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**ESEB John Maynard Smith Prize and ESEB under-represented ECR achievement award (EUEA)**

4:15 PM

**Zabibu Kabalika**

*Application of stable isotope ratio analysis to understand evolutionary niche differentiation and alternative life history strategies of migratory ungulates*

4:30 PM

**Sofía Barbero**

*The relationship between craniomandibular morphology and diet in assemblage structuring and recent extinctions of sigmodontine rodents (and the diagnosis of three chronic illnesses!)*

4:45 PM

**Harihar Jaishree  
Subrahmaniam**

*Roots and resilience: My journey through the science of plant cooperation*



**Room: 516D**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**On the interplays between developmental bias and selection**

4:15 PM	<b>Mia Akbar</b>	<i>Phenological trade-offs constrain response to herbivore-mediated selection in <i>Lythrum salicaria</i></i>
4:30 PM	<b>Alex Badyaev</b>	<i>Ultimate paths of least resistance: Mechanosensing regulatory network delineates evolutionary divergence in avian beaks</i>
4:45 PM	<b>James (Gabe) DuBose</b>	<i>The role of gene duplication in facilitating divergent patterns of gene expression across the monarch butterfly metamorphosis</i>
5:00 PM	<b>Joao Picao-Osorio</b>	<i>The evolution of developmental genetic biases explains divergent phenotypic evolutionary rates</i>
5:15 PM	<b>Patrick Rohner</b>	<i>Diversification along developmental lines of least resistance: developmental bias predicts 185 million years of evolution</i>



**Room: 516E**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**Evolutionary ecology VII**

4:15 PM      **James Fifer**      *Genetic history of a human specialist mosquito*

4:30 PM      **Kevin Winker**      *Seasonally migratory songbirds have different historic population size characteristics than resident relatives*

4:45 PM      **Julia Kreiner**      *Ongoing evolution and diversity of sex chromosomes in waterhemp (*Amaranthus tuberculatus*)*

5:00 PM      **Audrey Portal**      *Host-parasitoid relationship as a driver of horizontal transfer ?*

5:15 PM      **Ruth Percino-Daniel**      *Isolation by environment is more important than isolation by distance along a tropical gradient in direct developing frogs*



**Room: 520A**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**Sexual selection III**

4:15 PM	<b>Astrid Groot</b>	<i>Sexual attraction trades off with susceptibility to parasites in a noctuid moth</i> <b>WITHDRAWN</b>
4:30 PM	<b>Lauren Harrison</b>	<i>Does your social circle change how you age? Social environment effects on ageing and reproduction in Drosophila</i>
4:45 PM	<b>Leonie Moyle</b>	<i>Females drive postmating reproductive trait evolution across Drosophila species, but not primarily through remating rate</i>
5:00 PM	<b>Daniel Powell</b>	<i>Complex structural variation and behavioral interactions underpin a balanced sexual mimicry polymorphism</i>
5:15 PM	<b>Bernadette Johnson</b>	<b>Moved to the symposium ‘Evolution of reproductive fluids’</b>



**Room: 520B**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**Recombination rate variation: causes, consequences and evolution**

4:15 PM	<b>Jasmine Ono</b>	<i>Chromosome divergence and hybrid sterility in budding yeasts</i>
4:30 PM	<b>Zul Alam</b>	<i>The Role of Structural Variation for Supergene Maintenance in Formica Ants</i>
4:45 PM	<b>David Lowry</b>	<i>Pondering the evolutionary consequences of suppressed recombination caused by chromosomal inversions versus pericentromeric regions</i>
5:00 PM	<b>Mete Yuksel</b>	<i>Host constraints on pathogen recombination and emergence</i>
5:15 PM	<b>Mark Hibbins</b>	<i>The effect of heterogeneous recombination landscapes on the probability of sex chromosome turnover</i>





**Room: 520C**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**Predicting evolutionary responses to a changing world**

4:15 PM

**Moi Exposito-Alonso**

*Rapid evolution of Arabidopsis thaliana in synchronized global experiments across climates*

4:30 PM

**Frédéric Guillaume**

*Selection, genetic covariances, and network structure predict gene expression evolution during adaptation.*

4:45 PM

**Alexandre Rêgo**

*Strong selection, but low predictability: temperature-specific effects on repeatability of adaptation in Callosobruchus maculatus*

5:00 PM

**Giacomo Zilio**

*How does the complexity of environmental challenges affect the rate of adaptation? A meta-experimental evolution approach by the ExpEvolOcc network*



**Room: 520D**

**4:15 PM - 5:30 PM**

**Monday, July 29**

**What we can and cannot know through current and upcoming phylogenetic comparative methods**

4:15 PM	<b>Yuting Xiao</b>	<i>Method Choice for Ancestral Reconstruction: A Cautionary Tale</i>
4:30 PM	<b>Bethany Allen</b>	<i>Including fossil tips often, but not always, vastly improves the reconstruction of trait evolution using phylogenetic comparative methods</i>
4:45 PM	<b>Bruno do Rosario Petrucci</b>	<i>State-dependent diversification with fossils: a case study with Canidae</i>
5:00 PM	<b>Jérémy Andréoletti</b>	<i>Navigating the myriad of congruent diversification histories</i>
5:15 PM	<b>Bjørn Tore Kopperud</b>	<i>Phylogenetic Estimates of Shifts in the Tempo of Origination</i>



# MONDAY, JULY 29: EVENING EVENTS

## Poster Session 2

**Room: 220 DE**

**5:45 PM - 8:15 PM**

Poster Session: Presenters for session 2 will be at their posters in this session.

All welcome

Includes: Appetizers

For purchase: Drinks

Exhibitor Booths:

- ASN/SSB/SSE/ESEB Grad Committees
- BES - British Ecological Society
- DataClassroom
- Joint Diversity Committee
- Journal of Evolutionary Biology
- Oikos
- Oxford University Press
- Princeton University Press
- Yale University Press
- Royal Society Publishing
- SSE Journals
- SSE Public Policy
- SySTEM BIO-LEAPS
- University of Chicago Press
- US National Science Foundation
- Vanderbilt University



Monday, July 29

**Poster Session 2**  
**Room: 220 DE**

**5:45 PM - 8:15 PM**

Poster Board A1 (29th)	<b>Zachary Muscavitch</b>	<i>Dual-symbiont target capture methods for lichenized fungi and their photobionts from lichen holobionts</i>
Poster Board A2 (29th)	<b>Edgar Benavides</b>	<i>Genome-wide population structure of the endangered water frog <i>Telmatobius culeus</i> from Lake Titicaca in the High Andean Plateau.</i>
Poster Board A3 (29th)	<b>Da Eun Kim</b>	<i>Home squid home: A comparative cephalopod study between benthic and pelagic squid</i>
Poster Board A4 (29th)	<b>Kelsey O'Neill</b>	<i>Morphological integration and evolution of the primate cranium, neck, and shoulder girdle: variation among taxa and implications for genetic covariances between anatomical regions</i>
Poster Board A5 (29th)	<b>Daniela Garcia Cobos</b>	<i>Evolution of visual system in the gartersnakes, watersnakes, and allies (Natricidae: <i>Thamnophiini</i>)</i>
Poster Board A6 (29th)	<b>RAJESH NEUPANE</b>	<i>It's Tolerance, It's Avoidance, It's Escape! - The Drought Resistance Mechanism of Wild Sunflowers</i>
Poster Board A7 (29th)	<b>Chrissy Miller</b>	<i>From city to city: Genetic variation in <i>Capsella bursa-pastoris</i> within and across different urban landscapes</i>



Poster Board A8 (29th)	<b>Sophie Archambeault</b>	<i>Dissecting the regulatory grammar of an adaptive enhancer in threespine stickleback</i>
Poster Board A9 (29th)	<b>Adrienne Kasprovicz</b>	<i>The impact of urbanization on the functional traits of butterflies and flowering plants</i>
Poster Board A10 (29th)	<b>Nicole Mongillo</b>	<i>Characterizing morphological variation in geographically distinct late-stage larval oysters (<i>Crassostrea virginica</i>) raised in aquaculture</i>
Poster Board A11 (29th)	<b>PAOLA CARRION-AVILES</b>	<i>Are Darwin's finches evolving in response to climate change?</i>
Poster Board A12 (29th)	<b>Thomas DeWitt</b>	<i>Coopting spatial analysis for trait-explicit multivariate population genetic data</i>
Poster Board A13 (29th)	<b>Aidan Godin</b>	<i>The impact of interspecific variation in wing morphology on takeoff performance in passerines</i>
Poster Board A14 (29th)	<b>Andrew McCracken</b>	<i>Modeling rapid evolution in a changing world</i>
Poster Board A15 (29th)	<b>Daniel Sadler</b>	<i>Local adaptation in a multistressor world</i>
Poster Board A16 (29th)	<b>Shannon Parisien</b>	<i>Evolutionary patterns of antennal allometry and decoupling across ants</i>
Poster Board A17 (29th)	<b>Asia Hightower</b>	<i>The continuous leaf shape of <i>Capsella bursa-pastoris</i>: a case study of two urban populations</i>
Poster Board A18 (29th)	<b>Megan Mokriski</b>	<i>Monarchs, mating and milkweed: the effects of host plant and parasite infection on female mate choice</i>
Poster Board A19 (29th)	<b>Ruby Mustill</b>	<i>The evolution of female adolescence: a review of hypotheses</i>
Poster Board A20 (29th)	<b>Claudia Lacroix</b>	<i>Are Atlantic cod mating vocalisations a barrier to gene flow within a coastal hybrid zone?</i>



Poster Board B1 (29th)	<b>Zena Casteel</b>	<i>Territorial response of Song Sparrows to conspecific playback from different regions</i>
Poster Board B2 (29th)	<b>Macy Pritchard</b>	<i>"Punching up": stalk-eyed flies carrying an ornament-reducing drive X chromosome compensate by increasing fight intensity</i>
Poster Board B3 (29th)	<b>Sanduni Talagala</b>	<i>Assortative Mating and Environmental Complexity: Influences on Evolutionary Dynamics in Fruit Flies</i>
Poster Board B4 (29th)	<b>Ximena Leon</b>	<i>Developing cross-species metrics for quantifying rhythmicity in birdsong</i>
Poster Board B5 (29th)	<b>Isis Yano</b> <b>WITHDRAWN</b>	<i>Characterization of macro and micronutrients associated to root zone of Cactaceae species from xerophytic forests.</i>
Poster Board B5 (29th)	<b>Kenzie Givens</b>	<i>Microbiome transmission mode influences host capacity for adaptation</i>
Poster Board B6 (29th)	<b>Rafael Lima Vergilio</b>	<i>Diversification of tarantulas in a Neotropical dry forest</i>
Poster Board B7 (29th)	<b>Emilia Galli</b>	<i>Specialization scaling across biomes in Western Palearctic mammals</i>
Poster Board B8 (29th)	<b>Chloe Nash</b>	<i>Reef fish diversity across the Ryukyu Islands</i>
Poster Board B9 (29th)	<b>Jan Smyčka</b>	<i>Do the species with large geographic ranges diversify faster?</i>
Poster Board B10 (29th)	<b>Álvaro Quesada</b>	<i>Subtropical laurel forests as the link between tropical and temperate biomes during the evolution of squirrels</i>
Poster Board B11 (29th)	<b>Yushin Wei</b> <b>WITHDRAWN</b>	<i>Historical biogeography of <i>Frasera</i>, looking back and projecting forward</i>



Poster Board B12 (29th)	<b>Heng Liang</b>	<i>The battle for survival: the growth and development of Dictyostelium discoideum on different Pseudomonas prey</i>
Poster Board B13 (29th)	<b>Serena Frazee</b>	<i>Characteristics of a mammalian sweepstakes disperser, the ancestral tenrec</i>
Poster Board B14 (29th)	<b>Zade Alafranji</b>	<i>Ultraconserved Elements Based Phylogeny of the New Zealand Mite Harvester Genus Rakaia</i>
Poster Board B15 (29th)	<b>Olivia Bronzo Munich</b>	<i>Investigating the role of geography and host plant in the genetic differentiation of the goldenrod gall fly (Eurosta solidaginis) and its specialized natural enemies</i>
Poster Board B16 (29th)	<b>Vanessa Garcia</b>	<i>Defining a dispersal kernel for Mytilus californianus using isolation by distance</i>
Poster Board B17 (29th)	<b>David Bean</b>	<i>A broad analysis of amino acid sequence conservation in two essential bacterial proteins of the beta-barrel assembly machinery</i>
Poster Board B18 (29th)	<b>Ricardo Fong-Zazueta</b>	<i>Phylogenetic signal in primate dental enamel proteins and its relevance for paleoproteomics</i>
Poster Board B19 (29th)	<b>Kimberly Louisor</b>	<i>Chromosome Level Genome Assembly of a Centenarian Freshwater Teleost</i>
Poster Board B20 (29th)	<b>Sarah Baty</b>	<i>Comparative genomic analyses of two desert adapted shrub species, Encelia farinosa and E. californica, shows conservation of synteny and species-level gene duplications</i>
Poster Board C1 (29th)	<b>Jennifer Santiago Membreño</b>	<i>The hidden architects: How transposable elements shape the evolution of Arachnid genomes</i>
Poster Board C2 (29th)	<b>Sashoya Dougan</b>	<i>Unraveling the Genetic Blueprint(s) of Limb Reduction in Squamates</i>



Poster Board C3 (29th)	<b>Yuying Rong</b>	<i>Reference-free algorithm to purge a tetraploid potato genome into a haploid representation</i>
Poster Board C4 (29th)	<b>Yuying Rong</b>	<i>Constructing high resolution recombination landscapes from thousands of pollen cells</i>
Poster Board C5 (29th)	<b>Johnathan Spaulding</b>	<i>Supervised machine learning method to classify horizontally transferred genes in nematodes</i>
Poster Board C6 (29th)	<b>M. A. Thanuja Fernando</b>	<i>Testing the placement accuracy of DNA barcode sequences on backbone trees: implications of backbone tree completeness and species sampling strategy</i>
Poster Board C7 (29th)	<b>Daniel Fusca</b>	<i>Creating a dated phylogeny for the Caenorhabditis genus of nematode worms</i>
Poster Board C9 (29th)	<b>Claire Kim</b>	<i>Divergent gene regulatory network activation drives differential venom toxin expression in snake venom vs accessory venom glands</i>
Poster Board C10 (29th)	<b>Nicolas Dibot</b>	<i>Attractiveness of facial femininity in a non-human primate : a Generative AI-based experimental approach</i>
Poster Board C11 (29th)	<b>Rebecca Satterwhite</b>	<i>Ecological adaptation of Pseudomonas syringae: non-host environments are reservoirs for pathogenic genes</i>
Poster Board C12 (29th)	<b>Leila Curtis</b>	<i>Detecting Chromosomal Inversion Breakpoints in Atlantic Cod</i>
Poster Board C13 (29th)	<b>Niko Zuppas</b>	<i>Transfer Learning with AI Improves Estimation of Genomic Variation</i>
Poster Board C14 (29th)	<b>Sarah Gignoux-Wolfsohn</b>	<i>Manipulating coral microbiomes to increase fitness</i>





Poster Board C15 (29th)	<b>Dustin Kolste</b>	<i>Genetic and structural similarities between apolipoproteins and two recently-describe stress response genes</i>
Poster Board C16 (29th)	<b>Justin Rosario</b>	<i>What is a tardigrade good for?</i>
Poster Board C17 (29th)	<b>Wan He</b>	<i>A misclassification-network-based method for comparative analysis: assessing how human activities impact SARS-CoV-2 genetic divergence</i>
Poster Board C18 (29th)	<b>Jair Torres</b>	<i>Characterization of MHC Class II Beta Genes in the House Finch (<i>Haemorrhous mexicanus</i>) and American Goldfinch (<i>Spinus tristis</i>)</i>
Poster Board C19 (29th)	<b>Danilo Amaral</b>	<i>Differential gene expression in wild and cultivated cacti reveals diverse metabolic pathways for stressful environments</i>
Poster Board C20 (29th)	<b>Jasbelle Sosa</b>	<i>Rescue me! A Look at the Role of Males in Inbreeding Depression</i>
Poster Board D1 (29th)	<b>Andres Rivera</b>	<i>Finding the blind spots: a review of eye plasticity in the Order Araneae</i>
Poster Board D2 (29th)	<b>Isabel Bonatelli</b>	<i>Life-history traits drive discordance in demographic history of codistributed neotropical species</i>
Poster Board D3 (29th)	<b>Eleanor Hector</b>	<i>Characterizing phytoplasma disease in <i>Trillium grandiflorum</i> populations in Southern Ontario</i>
Poster Board D4 (29th)	<b>Chloé Robert</b>	<i>Assessing the performance of Swedish flat oysters (<i>Ostrea edulis</i> L.) in a warmer sea</i>
Poster Board D5 (29th)	<b>Emese Balogh</b>	<i>Do pyrethroid insecticides influence sex ratios in agile frogs (<i>Rana dalmatina</i>)?</i>



Poster Board D6 (29th)	<b>Uma Knaven</b>	<i>Investigating mito-nuclear discordance among <i>Callophrys elfin</i> butterflies</i>
Poster Board D7 (29th)	<b>Melissa von Moger</b>	<i>Population demography of the Brush-tailed rock-wallaby (<i>Petrogale penicillata</i>)</i>
Poster Board D8 (29th)	<b>Jayna Bergman</b>	<i>Genetic structure among Canadian populations of an amphibian of special concern</i>
Poster Board D9 (29th)	<b>Aja Tengstedt</b>	<i>Harnessing genetic rescue: A case for marsh fritillary butterflies (<i>Euphydryas aurinia</i>) in a fragmented habitat</i>
Poster Board D10 (29th)	<b>Ashley Friedenberger</b>	<i>Brucellosis and the Gut Microbiome of Victoria Island Muskoxen</i>
Poster Board D11 (29th)	<b>Wei Han Lau</b>	<i>Biogeography and Evolution of Elytral Coloration of the <i>Cicindela formosa</i> Species Complex</i>
Poster Board D12 (29th)	<b>Mikaella Grant</b>	<i>Gut Microbiome Diversity of Plains and Wood Bison in a Pseudo-Sympatric Environment</i>
Poster Board D13 (29th)	<b>Arianna Berrios</b>	<i>For-profit conservation: Influence of commercial breeding on monarch butterfly population decline</i>
Poster Board D14 (29th)	<b>Erin Patterson</b>	<i>Sizing it up: Exploring genetics underlying floral morphology in monkeyflowers</i>
Poster Board D15 (29th)	<b>Sarah Heffernan</b>	<i>Evolution and Development of Eye Variation Across the ant genus <i>Lasius</i></i>
Poster Board D16 (29th)	<b>Thea Gessler</b>	<i>Genetic rewiring, functional shifts, and transcription factor co-evolution between turtle species with contrasting mechanisms of sex determination revealed by regulatory network analysis</i>



Poster Board D17 (29th)	<b>Savanna Brown</b>	<i>Morphological marvels: evolutionary origins and developmental repatterning of treehopper helmets</i>
Poster Board D18 (29th)	<b>Asher Coello</b>	<i>“shifted” Hemipterans: Using <i>Oncopeltus fasciatus</i> to Test the Function of Novel and Conserved Genes</i>
Poster Board D19 (29th)	<b>Samuel Pring</b>	<i>A flower’s reflection: transgenic expression investigates the functional evolution of cycloidea and floral symmetry in angiosperms</i>
Poster Board D20 (29th)	<b>Cynthia Shao</b>	<i>Effect of resistant compartment on pathogen strategy in partially migratory populations</i>
Poster Board E1 (29th)	<b>Dev Nelson</b>	<i>Chromosome Inversion Association with Ancestry in <i>Aedes</i></i>
Poster Board E2 (29th)	<b>Emily Oxender</b>	<i>Genetic modification of <i>Paraburkholderia</i></i>
Poster Board E3 (29th)	<b>Jeffrey McKinnon</b>	<i>Lake biodiversity and research for a general audience--“Our Ancient Lakes: A Natural History”</i>
Poster Board E4 (29th)	<b>Jérémy Andréoletti</b>	<i>The occurrence birth-death diffusion process: unravelling diversification histories with fossils and heterogenous rates</i>
Poster Board E5 (29th)	<b>Lukiel dos Santos Oliveira</b>	<i>Genetic variation along elevational gradients in key Australian alpine plant species</i>
Poster Board E6 (29th)	<b>Lynette Strickland</b>	<i>Assessing genetic variation in a color polymorphic tortoise beetle using a differential gene expression approach</i>
Poster Board E7 (29th)	<b>Josh Hufton</b>	<i>Epigenetic regulation of immune response in the Swedish sand lizard (<i>Lacerta agilis</i>)</i>
Poster Board E8 (29th)	<b>Sophia Romualdi</b>	<i>Assigning phenologically asynchronous moths to source populations using individual genotypes</i>



Poster Board E9 (29th)	<b>Emily Dombrowski</b>	<i>Using a quantitative trait nucleotide simulation to assess the impact of migration and thermal selection on local adaptation in a mussel hybrid zone</i>
Poster Board E10 (29th)	<b>Kate Brittain</b>	<i>Leveraging citizen science to address questions of population genetic inference in cyclic populations</i>
Poster Board E11 (29th)	<b>Bloo Mitchell</b>	<i>Chemical mate choice copying in <i>Drosophila melanogaster</i></i>
Poster Board E12 (29th)	<b>Annique Barclay</b>	<i>The Morphological Impacts of Varying Iron and Manganese Concentrations on the Common Milkweed Plant</i>
Poster Board E13 (29th)	<b>Nadia Aubin-Horth</b>	<i>Creating and using open educational resources to teach evolution to improve accessibility, inclusion, and social justice</i>
Poster Board E14 (29th)	<b>Emilie Snell-Rood</b>	<i>Can biology be summarized in 10 statements? Challenges of distilling biological concepts for designers and engineers using biomimetic approaches</i>
Poster Board E15 (29th)	<b>Brittney Nguyen</b>	<i>Who will teach us evolution?</i>
Poster Board E16 (29th)	<b>Sarah Swiston</b>	<i>Education in phylogenetic modeling: the pedagogy of tutorials, software, and workshops</i>
Poster Board E17 (29th)	<b>Bryan Carstens</b>	<i>Article Processing Charges Across Journals and Publishers</i>
Poster Board E18 (29th)	<b>Szymon Drobnik</b>	<i>Drunk with power? The ambiguous history of statistical power analysis use in research</i>
Poster Board E19 (29th)	<b>Sophia Hernandez</b>	<i>Genetic diversity of bird species in isolated forest communities of the Atlantic Rainforest</i>
Poster Board E20 (29th)	<b>Maria (Masha) Korchagina</b>	<i>Functional stability and taxonomic diversity in hot spring prokaryotic communities.</i>



Poster Board F1 (29th)	<b>Felipe Kauai Pereira</b>	<i>Interspecific transfer of genetic information through polyploid bridges</i>
Poster Board F2 (29th)	<b>Stephen Cooke</b>	<i>Evolvability of birdsong: temporal horizons of complex trait change</i>
Poster Board F3 (29th)	<b>Logan Lacy</b>	<i>The genomics of urbanization in house mice</i>
Poster Board F4 (29th)	<b>Rachael Herman</b>	<i>An epigenetic comparison of two sympatrically breeding penguin species within a rapidly warming region of the Antarctic</i>
Poster Board F5 (29th)	<b>Renuka Agarwal</b>	<i>Influence of ecological dependency in shaping species traits and persistence in multi-mutualist communities</i>
Poster Board F6 (29th)	<b>Eleanor Turner</b>	<i>Using admixture mapping and CRISPR/Cas9 validation to identify genes involved in mosquito specialization on humans</i>
Poster Board F7 (29th)	<b>Giuseppe Garlaschè</b>	<i>Intraspecific variation in thermal performance. Range-edge divergence and latitudinal compensation in an introduced widespread gastropod</i>
Poster Board F8 (29th)	<b>Simon Innes</b>	<i>Intraspecific phenotypic variation along environmental gradients</i>
Poster Board F9 (29th)	<b>Lacey Rzodkiewicz</b>	<i>Exploring eco-evolutionary dynamics of competition in a shallow lake model</i>
Poster Board F10 (29th)	<b>bita ghodsi</b>	<i>Host-pathogen coevolution with vertical transmission of infections and density-dependent dynamics</i>
Poster Board F11 (29th)	<b>Alyssa Murray</b>	<i>Using photoperiod and thermal response to estimate fitness of phenological phenotypes</i>



Poster Board F12 (29th)	<b>Adam-Emmanuel Tremblay</b>	<i>Examining parallel and non-parallel components of lake-stream stickleback divergence on Haida Gwaii.</i>
Poster Board F13 (29th)	<b>Alice DesRoches</b>	<i>Genetic neighbourhood and competitive dominance intensify response to selection for earlier flowering time.</i>
Poster Board F14 (29th)	<b>Gonzalo Ramirez</b>	<i>Are reproductive strategy, ventral ornamentation, or habitat associated with sexual dimorphism in skull shape of <i>Sceloporus</i> lizards?</i>
Poster Board F15 (29th)	<b>Natalie van Dis</b>	<i>Temporal genomic characterization of eco-evolutionary dynamics in a butterfly metapopulation</i>
Poster Board F16 (29th)	<b>Chanchal Saratkar</b>	<i>No fitness cost of seasonal acclimation in natural populations of copepods</i>
Poster Board F17 (29th)	<b>Charlie Rhein</b>	<i>Mating choices that just make "scents": Development of cuticular hydrocarbon (CHC) profiling in monarch butterflies</i>
Poster Board F18 (29th)	<b>Emily Austen</b>	<i>Reward dynamics in an oil-pollination plant</i>
Poster Board F19 (29th)	<b>Christopher Taylor</b>	<i>Do Batesian mimics gain by resembling more than one model? Testing the "Multiple Models" hypothesis</i>
Poster Board G1 (29th)	<b>Thomas Scott</b>	<i>Kin-discriminating cooperation with and without partner choice</i>
Poster Board G2 (29th)	<b>Chon I Kam</b>	<i>Social influence on dispersal</i>
Poster Board G3 (29th)	<b>Keaton Sinclair</b>	<i>Repeat evolution in diverse strains of <i>Pseudomonas aeruginosa</i></i>
Poster Board G4 (29th)	<b>Pany Decossard</b>	<i>Increasing the entropy of the universe as vector of biological evolution. The case of eukaryotes.</i>
Poster Board G5 (29th)	<b>Kat Van der Poorten</b>	<i>From Signals to Syntax: Tracing the Evolution of Human Language</i>



Poster Board G6 (29th)	<b>Alireza G. Tafreshi</b>	<i>Reinterpreting Sex Ratio Selection</i>
Poster Board G7 (29th)	<b>Emily Perry</b>	<i>The Impacts of Nitrogen Supplementation on Rhizobial Population Quality</i>
Poster Board G8 (29th)	<b>Justin Gupta</b>	<i>Thermal evolutionary tango: the effect of diversity on the adaptation of <i>Pseudomonas fluorescens</i> to temperature</i>
Poster Board G9 (29th)	<b>Luis Felipe Cedeño Pérez</b>	<i>Evolution of synchronized multicellular development during long-term experimental evolution</i>
Poster Board G10 (29th)	<b>Vincent Montbel</b>	<i>Evolutionary dynamics under combined selective pressures in <i>Drosophila melanogaster</i></i>
Poster Board G11 (29th)	<b>Ronni Prince</b>	<i>Impacts of Mutation Accumulation on Aging: Fitness and Survival Differences Between Early and Late Age <i>Drosophila Melanogaster</i></i>
Poster Board G12 (29th)	<b>Caio Gomes Tavares Rosa</b>	<i>Role of synonymous mutations in the adaptation of <i>Pseudomonas fluorescens</i> to low glucose</i>
Poster Board G13 (29th)	<b>Melissa DeBiasse</b>	<i>Transcriptomics shows bioerosion is an inducible predation response in an excavating sponge</i>
Poster Board G14 (29th)	<b>Shana Pau</b>	<i>Sex chromosome regulation during gametogenesis in <i>Tribolium</i> revealed by single-cell RNA sequencing</i>
Poster Board G15 (29th)	<b>Rogini Runghen</b>	<i>Effects of hybridization on gene co-expression networks</i>
Poster Board G16 (29th)	<b>Alex Lawrence</b>	<i>Investigating transgressive gene expression in the hybrid Italian sparrow</i>



Poster Board G17 (29th)	<b>Addison Buxton-Martin</b>	<i>Exploring consequences of coevolution in mutualisms using dual coexpression networks of legume host and rhizobial mutualist</i>
Poster Board G18 (29th)	<b>Yasmeen Erritouni</b>	<i>Evidence for independent origins of avian iridescence</i>
Poster Board G19 (29th)	<b>Garrett Janzen</b>	<i>Similar transcriptomic responses to early and late drought stresses produce divergent phenotypes in sunflower (<i>Helianthus annuus</i> L.)</i>
Poster Board G20 (29th)	<b>Nan Wang</b>	<i>Gene expression plasticity in response to rapid and extreme elevation changes in the Tibetan partridge (<i>Perdix hodgsoniae</i>)</i>
Poster Board H1 (29th)	<b>Chandra Shekhar</b>	<i>The Evolutionary History and Dynamics of Colonic Retroviruses</i>
Poster Board H2 (29th)	<b>Tim Gemeinhardt</b>	<i>Do Polycomb Group proteins regulate chromatin in the alarm cue response of Trinidadian guppies?</i>
Poster Board H3 (29th)	<b>Sarah Couture</b>	<i>Towards Linking Dehydration and Fertility in Desert Adapted Species Using RNA Sequencing</i>
Poster Board H4 (29th)	<b>Md Abu Bakar Siddique</b>	<i>Genetic Response to Chytridiomycosis Disease in <i>Atelopus</i> Toads: Low Versus Highland Species</i>
Poster Board H5 (29th)	<b>Coley Tosto</b>	<i>Comparison of sex-biased gene expression among three closely related species of pipefish</i>
Poster Board H6 (29th)	<b>Rujuta Vaidya</b>	<i>Transcriptomic response of a splashpool copepod to sub-lethal heat stress over time. <b>WITHDRAWN</b></i>
Poster Board H7 (29th)	<b>Emily Mello</b>	<i>Differential Gene Expression Under Varying Nitrogen Source in <i>Salicornia depressa</i></i>
Poster Board H8 (29th)	<b>Ayanna Browne</b>	<i>The phylogeography and diversification of Lesser Antillean Island Bank anoles</i>





Poster Board H9 (29th)	<b>Taylor Naaykens</b>	<i>Comparing dispersal patterns across three species of sea sponge</i>
Poster Board H10 (29th)	<b>Lauren Chan</b>	<i>Exploring conditions that maintain phenotypic variation in the face of gene flow</i>
Poster Board H11 (29th)	<b>Aviel Rodriguez</b> <b>WITHDRAWN</b>	<i>Filling the gap: Indian muntjac genome assembly and its role in uncovering the evolutionary pathways in Ruminants</i>
Poster Board H12 (29th)	<b>Bronwyn Harkness</b>	<i>GenARCC : Genomic Adaptation and Resilience to Climate Change</i>
Poster Board H13 (29th)	<b>Sarah Chang</b>	<i>Evaluating genome-wide DNA methylation patterns in the early stages of an adaptive radiation</i>
Poster Board H14 (29th)	<b>Nicholas Planidin</b>	<i>Genetic variation for DNA methylation in Timema stick insects</i>
Poster Board H15 (29th)	<b>Maria Nava Martinez</b>	<i>Population genomics of four co-distributed frog species in a barrier island system</i>
Poster Board H16 (29th)	<b>Roos Goessen</b>	<i>Intraspecific insights into the genome of North America's most widespread tree species</i>
Poster Board H17 (29th)	<b>Amina Kurbidaeva</b>	<i>Topologically associating domains and the evolution of 3D genome architecture in rice</i>
Poster Board H18 (29th)	<b>Lucia Ramirez</b>	<i>Do chromosome inversions change size with time?</i>
Poster Board H19 (29th)	<b>Danielle Rivera</b>	<i>High-quality, chromosome-level reference genomes of the viviparous Caribbean skinks Spondylurus nitidus and S. culebrae</i>
Poster Board H20 (29th)	<b>Gabriela Ulmo Diaz</b>	<i>DNA methylation patterns linked to salinity and geography in the American Eel</i>



Poster Board I1 (29th)	<b>Katrina Phillips</b>	<i>Identifying molecular mechanisms of marine turtle migratory phenotypes</i>
Poster Board I2 (29th)	<b>Dario Copetti</b>	<i>Chromosome-level genome assembly of the iconic South American cactus mandacaru (<i>Cereus jamacaru</i> DC, Tribe Cereeae, Cactaceae)</i>
Poster Board I3 (29th)	<b>Emily Poon</b>	<i>Convergent evolution of parrot plumage coloration</i>
Poster Board I4 (29th)	<b>Brittany Velikaneye</b>	<i>Epigenomic response of the European corn borer moth (<i>Ostrinia nubilalis</i>) to elevated pupal and adult temperature</i>
Poster Board I5 (29th)	<b>Katie Erickson</b>	<i>Genomic characterization of a chromosomal inversion polymorphism in eelgrass (<i>Zostera marina</i>)</i>
Poster Board I6 (29th)	<b>Aide Macias-Muñoz</b>	<i>New genome and vision-related genes of an eyed hydrozoan (<i>Cnidaria</i>)</i>
Poster Board I7 (29th)	<b>Omar El-Deeb</b>	<i>fruitless P2 neurons may regulate mate choice in female <i>Drosophila melanogaster</i> via the post-mating response pathway</i>
Poster Board I8 (29th)	<b>Felix Wu</b>	<i>The genomics of speciation, hybridization, and divergence in Texas <i>Phlox</i></i>
Poster Board I9 (29th)	<b>Weston Gray</b>	<i>Rapid phenotypic evolution in the invasive African fig fly, <i>Zaprionus indianus</i></i>
Poster Board I10 (29th)	<b>Jonathan Hughes</b>	<i>Genomic studies of chromosomal variation in house mice across western Europe</i>
Poster Board I11 (29th)	<b>Jesse Wallace</b>	<i>How Did We Get Here? Using museum samples to explore hydroscape genomics of <i>F. rusticus</i> invasion in the Great Lakes Basin.</i>



Poster Board I12 (29th)	<b>Timothy Craig</b>	<i>Evolution of tall goldenrod, <i>Solidago altissima</i>, resistance to the gall-inducing fly <i>Eurosta solidaginis</i> due to geographic isolation and history of herbivory</i>
Poster Board I13 (29th)	<b>Austin Link</b>	<i>Interrogating the evolution of host-microbe interactions in fig worms</i>
Poster Board I14 (29th)	<b>Savannah Vonesh</b>	<i>Age isn't just a number: The role of aging in sex specific fertility rates in monarch butterflies</i>
Poster Board I15 (29th)	<b>Hanna Jewell</b>	<i>Association of reproduction with seasonality in a subtropical viviparous fish, <i>Jenynsia tucumana</i></i>
Poster Board I16 (29th)	<b>Vivien Luu</b>	<i>Comparison of new fossil calibration methods in Neotropical ovenbirds (<i>Aves: Furnariidae</i>)</i>
Poster Board I17 (29th)	<b>Théo Gaboriau</b>	<i>Exploring the Macroevolutionary Signature of Asymmetric Inheritance at Speciation</i>
Poster Board I18 (29th)	<b>Diego Paredes-Burneo</b>	<i>Is high phylogenetic discordance inherent to high Andean radiations?</i>
Poster Board I19 (29th)	<b>João Nascimento</b>	<i>Open ecosystems expansion, competition and predation shaped the evolution of Antilocapridae</i>
Poster Board I20 (29th)	<b>João Nascimento</b>	<i>Variation in prey availability over time shaped the extinction dynamics of sabertoothed cats</i>
Poster Board J1 (29th)	<b>Nicole Sawler</b>	<i>The phylogenetic distribution of a transcription factor family provides insights into the evolution of multicellularity in a green algal lineage</i>
Poster Board J2 (29th)	<b>Bouwe Reijenga</b>	<i>Spatial sampling bias has driven Phanerozoic diversification rate trends: A biodiversity simulation approach</i>



Poster Board J3 (29th)	<b>Antonio Meza</b>	<i>The Sceloporus Jaw Throughout Time using an Ancestral Reconstruction and Fossil Specimens</i>
Poster Board J4 (29th)	<b>Francis Robitaille</b>	<i>MitOpenProt, an open access repository of mitochondrial alternative open reading frames</i>
Poster Board J5 (29th)	<b>Mindy Baroody</b>	<i>Brotherly Boost: Sexually-Concordant Benefits to Male Adaptions against the Mother's Curse</i>
Poster Board J6 (29th)	<b>Pierre Blier</b>	<i>Longevity and environmental temperature modulate mitochondrial DNA evolution in fishes.</i>
Poster Board J8 (29th)	<b>Diego Carli</b>	<i>Origins and implications of mitochondrial genes expansion in bivalves</i>
Poster Board J9 (29th)	<b>Lauren Doellinger</b>	<i>Mitonuclear incompatibilities in two subspecies of Swainson's thrush</i>
Poster Board J10 (29th)	<b>Aram Stump</b>	<i>Evolution of genes associated with human menopause</i>
Poster Board J11 (29th)	<b>Alan Su</b>	<i>Tracking patterns in protein evolution with ultra-precise mapping of natural selection</i>
Poster Board J12 (29th)	<b>Mayuresh Ambekar</b>	<i>What makes Clunio's circadian clock tick?</i>
Poster Board J13 (29th)	<b>Matheus e da Silva</b>	<i>Uncovering Positive Selection in Exonic Regions of the Lineage-Specific Capture-based Sequencing Panel Cactaceae591</i>
Poster Board J14 (29th)	<b>Haley Hines</b>	<i>Understanding tetrodotoxin resistance and Nav2 channels in Echinodermata</i>
Poster Board J15 (29th)	<b>Cristian Sharma</b>	<i>Ancestral sequence reconstruction accuracy strongly depends on sequence alignment</i>



Poster Board J16 (29th)	<b>Michelle Culbertson</b>	<i>Evolutionary and structural analyses of guanylate cyclase-C and its ligands in bats reveal widespread selection at both interacting and distant residues</i>
Poster Board J17 (29th)	<b>Soham Dibyachintan</b>	<i>Cryptic genetic variation shapes the fate of gene duplicates in a protein interaction network</i>
Poster Board J18 (29th)	<b>Kait Malewicz</b>	<i>Understanding extreme toxin resistance in garter snakes using molecular dynamics simulations</i>
Poster Board J19 (29th)	<b>Aaron Robbins</b>	<i>Are rotifer genomes ecoresponsive? A case study for rotifers from polluted and non-polluted habitats</i>
Poster Board J20 (29th)	<b>Sabrina Le Cam</b>	<i>Does doubly uniparental inheritance of mitochondria play a role in the genetic structure and physiology of the marine bivalve <i>Macoma balthica</i>?</i>
Poster Board K1 (29th)	<b>Thomas Wolfe</b>	<i>The Role of Epigenetic Regulation in the Evolution of Duplicate Genes</i>
Poster Board K2 (29th)	<b>Abby Coldwell</b>	<i>Convergent evolution of amino acid frequencies in a critical enzyme of extremophilic bacteria</i>
Poster Board K3 (29th)	<b>Nicolas Rodrigue</b>	<i>Studying the amino acid replacement process with stochastic mapping</i>
Poster Board K4 (29th)	<b>Lisa Liebens</b>	<i>Color vision and gene expression in strawberry poison dart frogs (<i>Oophaga pumilio</i>)</i>
Poster Board K5 (29th)	<b>Jacob Fredette-Roman</b>	<i>Estimating the rate and spectrum of spontaneous mutations in the zooplankton <i>Eurytemora affinis</i></i>
Poster Board K6 (29th)	<b>Irtaqa Arif</b>	<i>How does exposure to air pollution effect inherited mutation rate?</i>



Poster Board K7 (29th)	<b>Ronja Hulst</b>	<i>Modelling mutational robustness in evolution</i>
Poster Board K8 (29th)	<b>Isabella Ippolito</b>	<i>Impact of antibiotics on plant-microbe interactions in agriculture</i>
Poster Board K9 (29th)	<b>Eunnuri Yi</b>	<i>The heritability of and selection on host-associated microbial composition in the legume-rhizobia mutualism</i>
Poster Board K10 (29th)	<b>Olivia Healey</b>	<i>Structural variation in a carotenoid gene and the convergent evolution of red coloration in birds</i>
Poster Board K11 (29th)	<b>Moritz Blumer</b>	<i>The genetic basis of repeated ecotype differentiation in a Malawi cichlid</i>
Poster Board K12 (29th)	<b>Annaliese Chang</b>	<i>Intersectional roles of behavior and morphology in the phenotypic plasticity of an African cichlid</i>
Poster Board K13 (29th)	<b>Pei-Chen Lin</b>	<i>Exploring local adaptive evolution of endemic damselflies in Taiwan: the interplay among genetics, environment, and phenotype</i>
Poster Board K14 (29th)	<b>Sarah Britton</b>	<i>Multidimensional plasticity of melanin pigmentation in an insect</i>
Poster Board K15 (29th)	<b>Sofia Casasa</b>	<i>Regulation and diversification of horns and developmental plasticity in onthophagine horned beetles</i>
Poster Board K16 (29th)	<b>Sarah Schaack</b>	<i>Comparing levels of plasticity among traits, genotypes, and environments using <i>Daphnia magna</i> and a multivariate approach</i>
Poster Board K17 (29th)	<b>Steven Van Belleghem</b>	<i>Characterizing developmental mechanisms of plasticity and their importance in adaptation to rapid environmental change in <i>Daphnia magna</i></i>



Poster Board K18 (29th)	<b>Liza Holeski</b>	<i>Patterns of constitutive and induced herbivore defense are complex, but share a common genetic basis in annual and perennial monkeyflower</i>
Poster Board K19 (29th)	<b>Julie Jung</b>	<i>Plasticity kinetics: identifying the evolutionary process of genetic accommodation</i>
Poster Board K20 (29th)	<b>Alexis Pardo Ramírez</b>	<i>Evolution of activity time in geckos is not associated with environmental temperature</i>
Poster Board L1 (29th)	<b>Shelby Moshier</b>	<i>Math and models and Myotis, oh my: a phylogenetic factor analysis approach to trait evolution in bats</i>
Poster Board L2 (29th)	<b>Thibault Latrille</b>	<i>Chronogram or phylogram for phylogenetic comparative methods? Is trait evolution better explained by time or instead by sequence divergence?</i>
Poster Board L3 (29th)	<b>Alexandra Walling</b>	<i>Improving identification of phylogenetically useful loci: a comparison of three machine learning models</i>
Poster Board L4 (29th)	<b>Emma Lehmborg</b>	<i>When Networks are Necessary for Ancestral Character Estimation</i>
Poster Board L5 (29th)	<b>Diego Mallo</b>	<i>Tick Tock Trees: Reconstructing the evolutionary dynamics of human tissues using fluctuating methylation clocks</i>
Poster Board L6 (29th)	<b>Huy Truong</b>	<i>Taxonomic revision and molecular phylogenetics of the genus Vireolanius reveals evolutionary history and biogeographic implications for Amazonian canopy birds</i>
Poster Board L7 (29th)	<b>Jonas Lescroart</b>	<i>Phylogenomic signal is partitioned by recombination rate in Leopardus</i>
Poster Board L8 (29th)	<b>MacKenna Durbin</b>	<i>Frequency and evolution of Adenoviruses in Jamaican anoles</i>



Poster Board L9 (29th)	<b>Adrián Davín</b>	<i>A geological timescale for bacterial evolution and oxygen adaptation</i>
Poster Board L10 (29th)	<b>João Victor Dias da Silva</b>	<i>MULTILOCUS PHYLOGENY OF ARROJADOA BRITTON &amp; ROSE, AN ENDEMIC CACTUS TO EASTERN BRAZIL</i>
Poster Board L11 (29th)	<b>Rachel Schwartz</b>	<i>Rapid DIY identification of low-paralogy target capture markers for phylogenomics</i>
Poster Board L12 (29th)	<b>Leann Biancani</b>	<i>Improving Phylogenomic Marker Selection Using Support for Established Clades</i>
Poster Board L13 (29th)	<b>Juliana Palmeira Garcia</b>	<i>Unraveling the phylogenetic relationships of closely allied Mandacaru cactus species using target capture sequencing</i>
Poster Board L14 (29th)	<b>Nicole Povelikin</b>	<i>Abiotic drivers of genetic structure in the Pseudacris regilla complex</i>
Poster Board L15 (29th)	<b>Louise Lewis</b>	<i>Community-level amplicon analysis of green algae (Trebouxiophyceae) associated with fog desert lichens of western North America</i>
Poster Board L16 (29th)	<b>Eleni Anna Charmpila</b>	<i>Exploring the Phylogeny of the Unstudied Genus Leucalburnus: Placement within the Freshwater Fish Subfamily, Leuciscinae</i>
Poster Board L17 (29th)	<b>Bridget Bickner</b>	<i>Genetic architecture of the flower size/number and seed size/number tradeoffs in Phlox</i>
Poster Board L18 (29th)	<b>Tom Schmidt</b>	<i>Partial sweeps at multiple insecticide resistance genes in Aedes aegypti mosquitoes</i>
Poster Board L19 (29th)	<b>LyAndra Lujan</b>	<i>Investigating genetic divergence of meiotic recombination genes in Corvidae</i>





Poster Board L20 (29th)	<b>Sabrina Le Cam</b>	<i>Assessing levels and distribution of genetic diversity of wild sugar kelp population in Quebec and Nova Scotia: a tool for supporting the long-term sustainability of the seaweed aquaculture industry of the Canadian East Coast</i>
Poster Board M1 (29th)	<b>Matthew Weiss</b>	<i>Does leaf stripe polymorphism in monkeyflower maintain itself by promoting gene flow and balancing selection?</i>
Poster Board M2 (29th)	<b>Bronwyn Harkness</b>	<i>Population genomic structure of black guillemots (<i>Cephus grylle</i>) breeding across the North Atlantic</i>
Poster Board M3 (29th)	<b>Amanda Xuereb</b>	<i>Population genetic structure of the eastern oyster (<i>Crassostrea virginica</i>) in Canada using low-coverage whole-genome sequencing</i>
Poster Board M4 (29th)	<b>Rachel Gutner</b>	<i>Genetic consequences of landscape heterogeneity and isolation of a near-shore island endemic lizard</i>
Poster Board M5 (29th)	<b>Jigisha Jigisha</b>	<i>Population genetics of wheat powdery mildew in Europe</i>
Poster Board M6 (29th)	<b>Micaila Marcelle</b>	<i>Investigating demographic inference under a realistically high deleterious mutation rate with regards to a brief genetic bottleneck</i>
Poster Board M7 (29th)	<b>Rich Kliman</b>	<i>Modeling multidimensional site frequency spectra for source and rapidly flushing invasive populations</i>
Poster Board M8 (29th)	<b>Erica Winslott</b>	<i>Heritability of shield size and shape in the green tortoise beetles <i>Cassida viridis</i></i>
Poster Board M9 (29th)	<b>Zhenzhu Xiao</b>	<i>Genomic evidence of selection on gall size among goldenrod gall fly <i>Eurosta solidaginis</i></i>
Poster Board M10 (29th)	<b>Tamy Puniani</b>	<i>Modelling the evolution of resistance in an agricultural weed conferred by gene copy number variation</i>



Poster Board M11 (29th)	<b>Jacelyn Shu</b>	<i>Y chromosome bloat in <i>Poecilia picta</i></i>
Poster Board M12 (29th)	<b>Sarah Gobris</b>	<i>Sex chromosomes in the rough-tailed gecko (<i>Cyrtopodion scabrum</i>)</i>
Poster Board M13 (29th)	<b>Joelle Lafond</b>	<i>Poecilia picta X chromosome sexualization</i>
Poster Board M14 (29th)	<b>Anastasia Martashvili</b>	<i>Visual environment: reproductive decisions of a female <i>A. burtoni</i></i>
Poster Board M15 (29th)	<b>Ella Zhao</b>	<i>The secret of the nuptial gift: investigating the evolution of elaborate mating behavior in <i>Laupala</i> crickets</i>
Poster Board M16 (29th)	<b>Mayuko Kawamoto</b>	<i>The role of <i>Csf1</i> signaling pathway in the evolution of color ornamentation in the guppy, <i>Poecilia reticulata</i></i>
Poster Board M17 (29th)	<b>E Tuschhoff</b>	<i>Evolution of sexually selected traits across animals</i>
Poster Board M18 (29th)	<b>Kehinde Osijo</b>	<i>Environmental complexity and the strength of sexual selection through males</i>
Poster Board M19 (29th)	<b>Taylor Kessinger</b>	<i>The adaptive dynamics of moral norms, reputation, and gossip</i>
Poster Board M20 (29th)	<b>Nicholas Justyn</b>	<i>Investigating the function of primate natal coloration</i>
Poster Board N1 (29th)	<b>Liya Miksovsky</b>	<i>The evolution of cheating in filamentous phages</i>
Poster Board N2 (29th)	<b>Maria del Pilar Gonzalez Garcia</b>	<i>Genomic structure of the Midas cichlid populations from transcriptomic data</i>
Poster Board N3 (29th)	<b>Linda Hagberg</b>	<i>Repeatability of introgression in a grasshopper hybrid zone</i>
Poster Board N4 (29th)	<b>McLean Worsham</b>	<i>The ups and downs of polyploid diversification</i>



Poster Board N5 (29th)	<b>Benedicte Garmann-Aarhus</b>	<i>Museomics informs about species diversity within the adaptive radiation of Antarctic notothenioid fishes</i>
Poster Board N6 (29th)	<b>Sydney Decker</b>	<i>Assessment of species limits in widely distributed yellow bats</i>
Poster Board N7 (29th)	<b>Caroline Beuscher</b>	<i>Yield, growth, and labor demands of growing maize, beans, and squash in monoculture vs. the Three Sisters</i>
Poster Board N8 (29th)	<b>Mattheau Comerford</b>	<i>The role reinforcement plays in shaping hybridization between two biotypes of the extreme dietary generalist fall webworm along latitudinal gradients</i>
Poster Board N9 (29th)	<b>Sope Adeniji</b>	<i>Mapping epigenetic divergence in a migratory divide between songbirds</i>
Poster Board N10 (29th)	<b>Rachel Kruger</b>	<i>Ecogeographic isolation in closely related Monkeyflowers</i>
Poster Board N11 (29th)	<b>Brennan Silva</b>	<i>Chromosome Conundrums: the Distribution of Chromosomal Rearrangements (CRs) in Clarkia, Section Myxocarpa</i>
Poster Board N12 (29th)	<b>Tianlin Duan</b>	<i>Separating components of allopolyploidization with resynthesized and natural Capsella bursa-pastoris</i>
Poster Board N13 (29th)	<b>Aden Nagree</b>	<i>Divergent Thermal Challenges Elicit Unique Responses in Orbicellid Corals</i>
Poster Board N14 (29th)	<b>Ziqi Xie</b>	<i>Fitness Effect of Adaptive SNPs in a Recently Formed Ranunculus Hybrid Zone</i>
Poster Board N15 (29th)	<b>zamira andrews</b>	<i>Testing bivalve hybridization overtime using mitochondrial markers and low coverage genome analysis</i>
Poster Board N16 (29th)	<b>David Duvernell</b>	<i>Variability of reproductive isolation in natural and experimental hybrid zones between two topminnow species (Fundulus notatus and F. olivaceus)</i>



Poster Board N17 (29th)	<b>Scott Melander</b>	<i>Sex Chromosomes &amp; Sex-biased Expression in Reproductive Barriers</i>
Poster Board N18 (29th)	<b>Johanna Beam</b>	<i>Whole-genome data from a contact zone between Yellow-breasted Chat (<i>Icteria virens</i>) subspecies suggests possible cryptic speciation as well as hybridization</i>
Poster Board N19 (27th)	<b>Arlety Roy</b>	<i>Dual Defense Strategies: Exploring the Aposematic and Cryptic Continuum in Ithomiini Butterflies</i>
Poster Board N20 (29th)	<b>Desmond Willson</b>	<i>Selection during reproduction in <i>Mimulus guttatus</i></i>



## Day 5

### **PLENARY: ESEB Presidential Address**

(Free coffee available in 517 Lobby)

**Room: 517BCD: 8:00 AM - 9:20 AM**

**Tracey Chapman**

*ESEB Presidential Address*



**Room: 516A**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**Adaptation XIII**

9:30 AM	<b>Ayumi Tsuyuki</b>	<i>Systems analysis of hypoxia and metabolism gene regulatory networks</i>
9:45 AM	<b>Katharina Schneider</b>	<i>Plasticity for the win: Flexible transcriptional response to host plant switches in the comma butterfly (<i>Polygonia c-album</i>)</i>
10:00 AM	<b>Sade Bates</b>	<i>Drive-carrying males can achieve success under high sperm competition</i>
10:15 AM	<b>Rene Shahmohamadloo</b>	<i>Transgenerational epigenetic inheritance increases trait variation but is not adaptive</i>
10:30 AM	<b>Maddi Garate Olaizola</b>	<i>Will climate change impact the Baltic cod?</i>



**Room: 520E**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**Phylogenetic methods development I**

9:30 AM	<b>Jose Barba-Montoya</b>	<i>Assembling the tree of life through the integration of chronology and phylogeny</i>
9:45 AM	<b>Basanta Khakurel</b>	<i>An efficient heterotachy model for morphological phylogenetics</i>
10:00 AM	<b>Nicolas Salamin</b>	<i>Toward a semi-supervised learning approach to phylogenetic estimation</i>
10:15 AM	<b>Sarah Swiston</b>	<i>A model of range evolution using ellipses in continuous space</i>
10:30 AM	<b>Samuel Alizon</b>	<i>Phylodynamics without phylogenies: inferring epidemiological parameters from sequence alignments via deep learning</i>



**Room: 520F**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**Population genetics VIII**

9:30 AM	<b>Soleille Miller</b>	<i>Redefining reproduction: how transitions to parthenogenesis affect population genetics and evolutionary trajectories in a facultative parthenogen.</i>
10:00 AM	<b>Ally Swank</b>	<i>Depth specialization drives coral cryptic lineage distribution</i>
10:15 AM	<b>Cinnamon Mittan-Moreau</b>	<i>Leveraging genomic and physiological data to inform management of a critically endangered butterfly</i>





**Room: 523AB**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**Speciation V**

9:30 AM	<b>David Buckley</b>	<i>Evolving reproductive isolation: new insights from the <i>Chorthippus parallelus</i> hybrid zone</i>
9:45 AM	<b>Maia Dall'Acqua</b>	<i>Turning back time: constructing a speciation clock for <i>Caenorhabditis nematodes</i></i>
10:00 AM	<b>Carlie Anderson</b>	<i>Uncovering neural mechanisms of speciation by reinforcing selection</i>
10:15 AM	<b>BreAnn Geraldts</b>	<i>Hybrid speciation of a montane poison frog</i>
10:30 AM	<b>Raúl Araya-Donoso</b>	<i>More different than expected. High genetic divergence with low morphological and ecological differentiation in the widespread <i>Uta stansburiana</i></i>



**Room: 524A**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**Genomics XIII**

9:30 AM	<b>Victoria Gillman</b>	<i>Adaptive landscape of the endangered Scottish freshwater pearl mussel</i>
9:45 AM	<b>Jordan Bemmels</b>	<i>Population and conservation genomics of bull and giant kelp</i>
10:00 AM	<b>Christopher Boccia</b>	<i>Historical demography of northern seabirds: assessing responses to past climate changes</i>
10:15 AM	<b>Spencer Holtz</b>	<i>Expansion load due to gene surfing is associated with a reduction in fitness <del>MOVED</del></i>
10:30 AM	<b>Ryan Biscocho</b>	<i>The role of transposable elements in animal domestication</i>



**Room: 524B**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**Comparative biology I**

9:30 AM

**Matthew Powers**

*An intertidal copepod missing key components of the canonical hypoxia response pathway cruises through extreme challenges of hypoxia*

9:45 AM

**Kimberly Schoenberger**

*The overlap of island and domestication syndromes in an endemic canid, the Channel Island fox (*Urocyon littoralis*)*

10:00 AM

**Leonardo Tozetto**

*Developmental divergence of trap-jaw and non-trap-jaw *Strumigenys* ants during metamorphosis*

10:15 AM

**Annika Sharma**

*Patterns of cellular evolution in insect muscles*

10:30 AM

**Janina Rinke**

*The Influence of Transposable Elements on Genome Architecture and Chromosome Evolution in Ants*



**Room: 524C**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**Life history IV**

9:30 AM

**Regine Claire  
Manglicmot**

*Trait Evolution of Distant Bilaterian Lineages:  
Testing Synapomorphies with Fluorescence  
Microscopy of Acoels*

9:45 AM

**Thodoris Danis**

*Unveiling the evolutionary dynamics of gestation  
length in eutherian mammals: Insights from rodent  
life history traits*

10:00 AM

**Dylan Padilla**

*Larger prokaryotes grow faster only at high  
temperatures*

10:15 AM

**Madison Plunkert**

*Genetic basis of life history divergence on a  
microhabitat scale in the yellow monkeyflower*

10:30 AM

**Amanda Pettersen**

*How does the cost of brooding scale with  
offspring size?*



**Room: 525AB**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

## **Hybridization I**

9:30 AM	<b>Ben Schultz</b>	<i>Evidence of recurrent hybridization and introgression between the northern redbelly (<i>Chrosomus eos</i>) and finescale dace (<i>Chrosomus neogaeus</i>)</i>
9:45 AM	<b>Liz Mandeville</b>	<i>Where hybridization gets complicated: multi-species minnow hybridization across replicate locations in a highly disturbed landscape</i>
10:00 AM	<b>Sofia L. Mendes</b>	<i>Hybridization is prevalent but outcomes are distinct across Iberian chubs</i>
10:15 AM	<b>Katherine Drotos</b>	<i>Evaluation of clustering algorithms for identification of interspecific hybridization involving multiple species</i>
10:30 AM	<b>Pia Franziska Schwarz</b>	<i>Mosaic hybridization in a tri-lineage fish hybrid zone, with a comparison of ddRAD and lcWGS sequencing</i>



**Room: 518B**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**Migration**

9:30 AM	<b>Stephanie Szarmach</b>	<i>Migration strategies of a high-latitude breeding songbird (<i>Setophaga coronata coronata</i>) revealed using multi-sensor geolocators and stable isotopes</i>
9:45 AM	<b>Nina Therkildsen</b>	<i>Low-coverage whole genome sequencing for powerful and cost-effective population assignment</i>
10:00 AM	<b>E Schlatter</b>	<i>Connecting dispersal and spatial genetic structure in the neon goby <i>Elacatinus lori</i></i>
10:15 AM	<b>Louis Bubrig</b>	<i>Dispersal as a strategy to avoid late stages of an epidemic</i>



**Room: 519AB**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**Mitochondria**

9:30 AM	<b>Georges Hraoui</b>	<i>Mild heat stress imparts a protective effect towards subsequent severe heat that is mediated by Nrf2 and mitochondrial ROS</i>
9:45 AM	<b>Stefano Bettinazzi</b>	<i>Mitonuclear interactions in a changing world</i>
10:00 AM	<b>Phred Benham</b>	<i>Mito-nuclear co-evolution in a widespread North American songbird with highly divergent and sympatric mitochondrial genomes</i>
10:15 AM	<b>Andy Dick Yee Tan</b>	<i>Elaborate Sequence Repeats with Transposable Elements and Unknown Open Reading Frames Made the Biggest Metazoan Mitogenome</i>
10:30 AM	<b>Federico Plazzi</b>	<i>The emerging role of mitochondrially encoded small interfering RNAs to regulate nuclear gene expression</i>



**Room: 516B**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**Evolutionary rescue: theory, data, and pressing applications**

9:30 AM	<b>Danna Gifford</b>	<i>Mutators enable evolutionary rescue in the face of antibiotic combinations</i>
9:45 AM	<b>Maria E. Orive</b>	<i>Partial clonality over time and space: evolutionary rescue and the opportunity for spatial adaptation.</i>
10:00 AM	<b>Julien Offresson</b>	<i>Critical genetic variance and evolutionary rescue of an organism with a complex life cycle.</i>
10:15 AM	<b>Jeremy Summers</b>	<i>The multigenerational impact of gene flow in a natural population</i>
10:30 AM	<b>Jeremy Draghi</b>	<i>Specialization and niche partitioning as modes of evolutionary rescue</i>





**Room: 516C**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**The completion of speciation: coupling, persistence and the micro-macro link**

9:30 AM	<b>Erik Dopman</b>	<i>Coupling of barriers to gene exchange: perspectives and prospects</i>
10:00 AM	<b>Yannick Francioli</b>	<i>Extending genomic coupling theory to empirical data from a rattlesnake hybrid zone</i>
10:15 AM	<b>Roman Yukilevich</b>	<i>The relative importance of premating versus postzygotic isolation in maintaining species integrity and its relevance for reinforcement and the Templeton effect</i>
10:30 AM	<b>Robin Hopkins</b>	<i>The genetic basis of reinforcement in <i>Phlox</i></i>



**Room: 516D**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**Biotic interchanges across taxa through molecular and fossil data**

9:30 AM	<b>Octavio Jimenez-Robles</b>	<i>Reconstruction of intercontinental dispersals during the Cenozoic from extant molecular phylogenies</i>
9:45 AM	<b>Audrey Prasetya</b>	<i>Beyond Endpoints: Islands have influence comparable to continental systems for both dispersal and radiation of passerine birds across the Indo-Australian Archipelago</i>
10:00 AM	<b>Kateryn Pino</b>	<i>Biotic dispersal and diversity dynamics in deep time: the case of South American mammal evolution</i>
10:15 AM	<b>Katherine Magoulick</b>	<i>Using Niche Models and the Fossil Record to Assess Dispersal Hypotheses for the Great American Biotic Interchange</i>
10:30 AM	<b>Nathan Mazet</b>	<i>Investigating drivers of diversification in a heterogeneous phylogenetic framework</i>



**Room: 516E**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**Evolutionary ecology VIII**

9:30 AM	<b>Yichao Zeng</b>	<i>Modeling and inference of eco-evolutionary dynamics in seasonal environments: toxic algal blooms as a model system</i>
9:45 AM	<b>Abdel Halloway</b>	<i>A Mutualism-Parasitism Gradient plus Control over Nodule Access Leads to Trait Variation in Bacteria-Plant Mutualists</i>
10:00 AM	<b>John Richards</b>	<i>Dental calculus in mammals: diet, phylogeny, and the use of museum specimens</i>
10:15 AM	<b>Kaitlin Allen</b>	<i>Niche evolution across the highly reticulate phylogeny of the allopolyploid African clawed frog (<i>Xenopus</i>)</i>
10:30 AM	<b>Maria João Paúl</b>	<i>Understanding spatial patterns of intraspecific genetic and genomic diversity: an insight from the Australian Monsoonal Tropics</i>



**Room: 520A**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**Sexual conflict I**

9:30 AM	<b>Russell Bonduriansky</b>	<i>A new window on the paradox of sex</i>
9:45 AM	<b>Chloe Melo-Gavin</b>	<i>Genomic Response to Sex Limited Evolution in <i>Drosophila melanogaster</i></i>
10:00 AM	<b>Tyler Audet</b>	<i>Sexually discordant selection is associated with trait specific morphological changes and a complex genomic response</i>
10:15 AM	<b>Haosu (Susu) Cong</b>	<i>The evolution of cuticular hydrocarbon sexual dimorphism in <i>Drosophila</i></i>
10:30 AM	<b>Rajanikanth Chowdanayaka</b>	<i>Molecular evolutionary mechanisms underlying pheromone diversification in <i>Drosophila</i>.</i>



**Room: 520B**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**Replicability & reproducibility in ecological & evolutionary research**

9:30 AM	<b>Shinichi Nakagawa</b>	<i>Quantifying replication and generalization in ecology and evolution</i>
9:45 AM	<b>Kaija Gahm</b>	<i>Working Toward Openness: An Early-Career Perspective on Reproducibility Efforts in Eco-Evo</i>
10:00 AM	<b>Viviana-Romero Alarcon</b>	<i>Improving replicability, reproducibility, and transparency in phylogenetic comparative analyses</i>
10:15 AM	<b>Malgorzata Gazda</b>	<i>Reporting quality of quantitative polymerase chain reaction (qPCR) methods in scientific publications</i>
10:30 AM	<b>Sam Price</b>	<i>How choices made during data analysis influence the results of phylogenetic comparative analyses – an empirical investigation using the morphology of teleost fishes.</i>



**Room: 520C**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**From mutation rate to mutations rates: how uncovering mutation rate variation changes our understanding of adaptation**

9:30 AM **Chaowei Charlene Zhang** *Intraspecific test of the drift-barrier hypothesis*

10:00 AM **Nathaniel Sharp** *Mutation patterns in alternative ploidy states indicate limits to selection on mutation in yeast species*

10:15 AM **Rory Craig** *Extensive intra- and inter-species variation in structural mutation rates in Chlamydomonas green algae*

10:30 AM **Rowan Green** *How ecological interactions shape microbial mutation rates: a story of collective detoxification*



**Room: 520D**

**9:30 AM - 10:45 AM**

**Tuesday, July 30**

**Within-organism conflicts**

9:30 AM	<b>Pavitra Muralidhar</b>	<i>Quantitative genetics of sex chromosome evolution</i>
10:00 AM	<b>Anjali Gupta</b>	<i>Evolution of multiple meiotic drive X chromosomes in <i>D. affinis</i></i>
10:15 AM	<b>Graeme Keais</b>	<i>Meiotic drive of an X chromosome through both sexes in <i>Drosophila</i></i>
10:30 AM	<b>Sasha Bradshaw</b>	<i>The energetic and metabolic costs of harbouring meiotic drive in stalk-eyed flies</i>



# TUESDAY, JULY 30: MORNING BREAK

## Primarily Undergraduate Institution mixer

**Room: 725: 10:45 AM - 11:15 AM**

Breakout smaller group networking opportunities for those from primarily undergraduate universities (PUI's), during regular break time, but in a different space.

Preregistration not required. Coffee/Tea/Snacks included.

## Coffee break

**Room: 220DE: 10:45 AM - 11:15 AM**

Coffee, Tea, Water & Snacks

## Exhibitor Booths:

- ASN/SSB/SSE/ESEB Grad Committees
- BES - British Ecological Society
- DataClassroom
- Joint Diversity Committee
- Journal of Evolutionary Biology
- Oikos
- Oxford University Press
- Princeton University Press
- Royal Society Publishing
- SSE Journals
- SSE Public Policy
- SySTEM BIO-LEAPS
- University of Chicago Press
- US National Science Foundation
- Vanderbilt University
- Yale University Press





**Room: 516A**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**Adaptation XIV**

11:15 AM	<b>Maëva Gabrielli</b>	<i>Genomic consequences of human-animal interaction in the isolated population of Apennine brown bears</i>
11:30 AM	<b>Rishi De-Kayne</b>	<i>The (un)predictability of sulfide adaptation in Poeciliid fishes across scales of biological organization</i>
11:45 AM	<b>Maya Stokes</b>	<i>Evidence for allopatric speciation under divergent ecological pressures within the darter clade Swainia</i>
12:00 PM	<b>Fabian C. Salgado-Roa</b>	<i>Genetic differences behind the color polymorphism of spiders</i>
12:15 PM	<b>Tiezheng Fan</b>	<i>Latitudinal gene expression parallelism between North American and Australian <i>D. melanogaster</i> and <i>D. simulans</i></i>



**Room: 516B**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**Evolutionary rescue: theory, data, and pressing applications**

11:15 AM	<b>Dale Clement</b>	<i>Rapid coevolution promotes the coexistence of Tasmanian devils and a fatal, transmissible cancer</i>
11:30 AM	<b>Libby Gilbert-Horvath</b>	<i>Inbreeding, outbreeding and genetic rescue in populations of an endangered salmon</i>
11:45 AM	<b>Chris Blake</b>	<i>Evolutionary shift of a tipping point forestalls collapse in a microbial community</i>
12:00 PM	<b>Alex Longcamp</b>	<i>Evolutionary rescue of niche constructors from habitat exploitation</i>
12:15 PM	<b>Caroline Turner</b>	<i>Nitrogen scarcity hinders the evolution of antibiotic resistance in <i>E. coli</i></i>



**Room: 516C**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**The completion of speciation: coupling, persistence and the micro-macro link**

11:15 AM	<b>Alexandre Blanckaert</b>	<i>Interactions between mechanisms of reproductive isolation</i>
11:30 AM	<b>Katharine Khoury</b>	<i>Disentangling pollination-efficacy and its role in maintaining subspecies boundaries in an African Storksbill</i>
11:45 AM	<b>Alexander Jacobsen</b>	<i>The Effectiveness of a Magic Trait and Other Barriers to Gene Flow in a Reproductively Synchronous Midge</i>
12:00 PM	<b>Jesper Boman</b>	<i>Dawn of the second generation of chromosomal speciation? A butterfly perspective</i>
12:15 PM	<b>Marta Barluenga</b>	<i>Host-parasite interactions drive sympatric speciation in crater lake cichlid fish</i>



**Room: 516D**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**The politics of citation in evolutionary biology**

11:15 AM      **Haley Branch**      *Ableism as foundation for evolutionary biology*

11:30 AM      **Jedidiah Carlson**      *Conquering the Hereditarian Hydra*

11:45 AM      **Deondre Smiles**      *Indigenous research ethics and data sovereignty*



**Room: 516E**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**Evolutionary ecology IX**

11:15 AM	<b>Michela Dumas</b>	<i>Shared genetic architecture and sex-specific fitness consequences of deeply forked tails in the Alpine swift</i>
11:30 AM	<b>Will Allen</b>	<i>Natural selection of camouflage and warning coloration uncovered by a globally distributed experiment.</i>
11:45 AM	<b>Rita Fortuna</b>	<i>Genetic variances and selection on plasticity in early-life seasonal migration vary among seasons and years in a partially migratory population</i>
12:00 PM	<b>Edina Nemesházi</b>	<i>Climatic distribution of the herpetofauna is linked to the interplay between genotypic and thermal sex determination</i>
12:15 PM	<b>Jonathan Drury</b>	<i>Predation imposes a trade-off on a reproductive and territorial trait in smoky rubyspot damselflies</i>



**Room: 520A**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**Sexual conflict II**

11:15 AM	<b>Emma Lehmborg</b>	<i>Hybridization, Sexual Conflict, and Speciation: A Test of Macroevolutionary Theory in Live-bearing Fishes (Poeciliidae)</i>
11:30 AM	<b>Alison Pischedda</b>	<i>Sexual conflict over mating duration in <i>Drosophila melanogaster</i></i>
11:45 AM	<b>Kyndall P. Skelton</b>	<i>Sexual Conflict in <i>Callosobruchus maculatus</i>: Quantifying the Routes by which Natural Selection Shapes Sexual Size Dimorphism</i>
12:00 PM	<b>Iulia Darolti</b>	<i>The genomic architecture of sex-specific adaptation in stick insects</i>
12:15 PM	<b>Anastasia Shavrova</b>	<i>Fighting for love, is it worth it? The intensity of male-male competition is more costly to males than females</i>



**Room: 520B**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**Generative A.I. as a powerful new tool for studying evolutionary biology**

11:15 AM	<b>Shreya Jariwala</b>	<i>AI-Assisted Data Transfer: Moving Data from the Paleobiology Database to MorphoBank</i>
11:30 AM	<b>Caleb Charpentier</b>	<i>Can machines think (like biologists)? The promises and pitfalls of AI for accelerated phenotypic discovery from images</i>
11:45 AM	<b>Patrick McKenzie</b>	<i>Generating a massive flower color dataset using iNaturalist and GPT-4 with Vision to investigate convergent evolution of flowering phenology in North American red-flowering plants</i>
12:00 PM	<b>Claudia Solis-Lemus</b>	<i>State-of-the-art inference methods for complex phylogenetic networks.</i>
12:15 PM	<b>Cheng Zhang</b>	<i>ARTree: A Deep Autoregressive Model for Phylogenetic Inference</i>



**Room: 520C**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**From mutation rate to mutations rates: how uncovering mutation rate variation changes our understanding of adaptation**

11:15 AM	<b>Alejandro Couce</b>	<i>Fitness consequences of strongly biased mutation rates in bacteria</i>
11:30 AM	<b>Bryan Gitschlag</b>	<i>Variation in the genetic basis of adaptation reflects variation in the strength of mutational biases: a multi-taxon analysis</i>
11:45 AM	<b>T. Anthony Sun</b>	<i>Distribution of mutation rates challenges evolutionary predictability</i>
12:00 AM	<b>Yadira Peña-García</b>	<i>Direct estimate of the germline mutation rate in opossums</i>
12:15 PM	<b>Daniel Seidman</b>	<i>Investigating mutation rates in pedigreed populations using low coverage data</i>





**Room: 520E**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**Phylogenetic methods development II**

11:15 AM

**Jiansi Gao**

*Causes, impacts, and potential solutions of the widespread lack of topological convergence in Bayesian phylodynamic inference on large viral datasets*

11:30 AM

**Sebastian Höhna**

*RevBayes 2.0: New Features and Applications*

11:45 AM

**Lenard Lajos Szanthy**

*Compositionally constrained sites drive long-branch attraction*

12:00 PM

**Megan Smith**

*Using paralogs mitigates the effects of long-branch attraction*

12:15 PM

**Analisa Milkey**

*Testing the sequential multispecies coalescent*



**Room: 520F**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**Modeling**

11:15 AM	<b>Daniel Smith</b>	Why there are so many different definitions for fitness in models
11:30 AM	<b>Ian Dewan</b>	<i>Adaptation through copy number variation of eccDNA in yeast</i>
11:45 AM	<b>Haoqing Du</b>	<i>Gene Family Evolution Modeling in RevBayes with Examples in Fireflies</i>
12:00 PM	<b>Daniel Priego Espinosa</b>	<i>The effect of background selection on the evolution of altruism in metapopulations</i>



**Room: 523AB**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**Species delimitation**

11:15 AM	<b>Sarah Boyer</b>	<i>Machine learning approaches delimit cryptic species in a previously intractable complex of dispersal-limited arachnids</i>
11:30 AM	<b>Gavin Munson</b>	<i>Systematics of Hamamelistes Aphids (Hemiptera: Aphididae: Hormaphidini) in Eastern North America.</i>
11:45 AM	<b>Pedro Pezzi</b>	<i>The implications of hybridization and rapid diversification in the species delimitation of Petunia</i>
12:00 PM	<b>Daniela Mera-Rodríguez</b>	<i>Integrative taxonomy reveals diversity and evolution of social parasitism in the leaf-cutting ants of the Acromyrmex octospinosus species complex</i>
12:15 PM	<b>Alexander Ochoa</b>	<i>Phylogenomics and species delimitation of extant and extinct Galápagos giant tortoises</i>



**Room: 524A**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**Genomics XIV**

11:15 AM	<b>Liam Friar</b>	<i>Convergent evolution of the “nitroplast”? Genomic insights from <i>Trichormus azollae</i>, the nitrogen-fixing cyanobacterial endosymbiont of the fern genus <i>Azolla</i></i>
11:30 AM	<b>Toni Gabaldón</b>	<i>Origin of new yeast pathogens by hybridization</i>
11:45 AM	<b>Filip Thörn</b>	<i>Frequent hybridisation between parapatric lekking bird-of-paradise species</i>
12:00 PM	<b>Victoria Eggers</b>	<i>Deciphering Transposable Element Dynamics in Nematode Genomes: Integrating Evolutionary Theory with Genomic Insights</i>
12:15 PM	<b>Kalle Tunström</b>	<i>Probing the pteridine pathway provides insight into butterfly wing color evolution</i>



**Room: 524B**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**Comparative biology II**

11:15 AM	<b>Manasa Iyer</b>	<i>Sex as a biological variable in comparative oncology</i>
11:30 AM	<b>Fabio Alfieri</b>	<i>Functional and ecological determinants of the internal architecture of avian wing bones</i>
11:45 AM	<b>James Bingman</b>	<i>Patterns of phenotypic integration across the tree of life</i>
12:00 PM	<b>Talia Lowi-Merri</b>	<i>Ecological and macroevolutionary correlates of avian brain morphology</i>
12:15 PM	<b>Rosalyn Price-Waldman</b>	<i>Feather microstructures that enhance plumage coloration in tanagers evolve via alternative developmental routes in structurally colored and pigmented feathers</i>



**Room: 524C**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**Molecular evolution I**

11:15 AM	<b>Cristian Sharma</b>	<i>How do you choose an alignment for ancestral reconstructions?</i>
11:30 AM	<b>Alberto Rivera</b>	<i>Deducing the Evolution of Allorecognition and Primordial Immunity in Cnidarians</i>
11:45 AM	<b>Matthieu Vilain</b>	<i>Climate Change likely to Speed Up Influenza Evolution</i>
12:00 PM	<b>Carmen Webster</b>	<i>Divergence and selection in a cryptic species complex (<i>Geonoma undata</i>: <i>Arecaceae</i>) in the Northern Andes of Colombia</i>
12:15 PM	<b>Karen Salazar</b>	<i>Museomics Reveals Miocene Origin and Andean Diversification of <i>Eriopis</i> Ladybird Beetles (Coleoptera)</i>



**Room: 525AB**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**Hybridization II**

11:15 AM	<b>Scott Taylor</b>	<i>Genetics of adaptation and speciation in food-caching chickadees</i>
11:30 AM	<b>Amber Rice</b>	<i>Cognition and the underlying genetics in hybridizing chickadees</i>
11:45 AM	<b>Matthew Farnitano</b>	<i>Spatial structure and temporal fluctuations influenced by heterogeneous water availability in a dynamic hybrid population of Mimulus monkeyflowers.</i>
12:00 PM	<b>Sam Fellows</b>	<i>Impacts of color and pattern in the maintenance of a contact zone in Uta stansburiana</i>
12:15 PM	<b>Timo Thünken</b>	<i>Impact of multigenerational inbreeding on sexual selection in a cichlid fish</i>



**Room: 518B**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**Mutation**

11:15 AM	<b>Cyril Versoza</b>	<i>Insights into the structural variant landscape of aye-ayes (<i>Daubentonia madagascariensis</i>)</i>
11:30 AM	<b>Lachlan King</b>	<i>Background check: mutational variance for wing size depends on ancestor's wing size</i>
11:45 AM	<b>Jaime Schwoch</b>	<i>Clonal evolution and selection of somatic mutations in <i>Mimulus guttatus</i> <b>WITHDRAWN</b></i>
12:00 PM	<b>Kimberly Moser</b>	<i>Marvelous mutants of <i>C. inopinata</i>: forward screen reveals body size mutations</i>





**Room: 519AB**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**Reproductive systems**

11:15 AM	<b>Michelle McCauley</b>	<i>An empirical test of Baker's law: dispersal favors increased rates of self-fertilization</i>
11:30 AM	<b>Daniela Wilner</b>	<i>Can sexual conflict explain geographic parthenogenesis? Female resistance to fertilization and the maintenance of all-female populations</i>
11:45 AM	<b>Kate O'Hara</b>	<i>Unexpectedly high genetic diversity revealed in a triploid parthenogenetic gecko</i>
12:00 PM	<b>Jana Flury</b>	<i>S-locus haplotypes identified by long-read sequencing and their connection to parallel evolution of selfing in <i>Arabidopsis lyrata</i></i>
12:15 PM	<b>Juanita Gutierrez-Valencia</b>	<i>Genetic causes and genomic consequences of breakdown of distyly in <i>linum trigynum</i></i>



**Room: 520D**

**11:15 AM – 12:30 PM**

**Tuesday, July 30**

**Within-organism conflicts**

11:15 AM

**Rob Unckless**

*Transmission and fitness effects of a B chromosome in Drosophila putrida*

11:30 AM

**Ivar Westerberg**

*Fungal centromere evolution in the Podospora anserina species complex and the interaction between transposable elements and genome defense.*

11:45 AM

**Jeffrey Vedanayagam**

*Meiotic drive and suppression: novel protamine copies and hairpin RNAs fuel intragenomic arms races in the male germline*

12:00 PM

**Fanny Mazzamurro**

*Intragenomic conflicts with plasmids and chromosomal mobile genetic elements at the origins of within-species variations in bacterial transformation rates*

12:15 PM

**Austin Burt**

*Genetic biocontrol designs using selectively neutral lethal-producing lethals: a genetic perpetual motion machine?*



# TUESDAY, JULY 30: LUNCHTIME EVENTS

**Lunch break: (On your own): 12:30 PM - 2:30 PM**

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**SSB Council exit meeting** (For SSB Council Members only).

**Room: 447: 12:30 PM - 2:30 PM**

**SSE Council exit meeting** (For SSE Council Members only).

**Room: 518A: 12:30 PM - 2:30 PM**

**ASN Council exit meeting** (For ASN Council members only).

**Room: 445B: 12:30 PM - 2:30 PM**

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**ASN/SSE Public Policy Discussion** (All welcome. Free)

**Room: 519AB: 12:45 PM - 2:15 PM**

**Description:**

Interested in getting involved in science policy but not sure how to get started? Curious about whether a career in science policy might be the right fit, but wondering how to learn more? In this workshop and discussion, we will hear from local policymakers about how the scientific community can most effectively interact with policymakers and discuss pathways into careers in science policy. This event will equip you with the tools you need to begin engaging with key decision-makers in your community.

Preregistration is not required.

Lunch is not provided, but a kiosk is available in the lobby of 517 to purchase food if you wish to bring your own. Please note that, by building policy, no food from outside the convention center can be brought in.



**Room: 516A**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Reproductive isolation**

2:30 PM	<b>Gaspard Baudrin</b>	<i>Speciation in two Palearctic Muscicapa flycatcher species: the role of genomic structure and life-history traits in the genome-wide landscape of introgression.</i>
2:45 PM	<b>Christoph Vorburger</b>	<i>Ecological diversification despite common mating sites: Genotypes and symbiotypes shed light on cryptic taxa in the black bean aphid complex</i>
3:00 PM	<b>Elizabeth Stacy</b>	<i>The ecology of hybrid incompatibilities in trees: backcross and F1 hybrid fitness under benign and drought conditions</i>
3:15 PM	<b>Hagar Soliman</b>	<i>Patterns of Reproductive Isolation Across the Entire Mimulus guttatus Species Complex</i>
3:30 PM	<b>Megan Frayer</b>	<i>Repeated evolution of reproductive isolation in a monkeyflower species complex</i>



**Room: 520E**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Competition**

2:30 PM	<b>LUCAS PORTO</b>	<i>Ecological Similarity and Spatial Overlap Models of Diversification Dynamics in Carnivora</i>
2:45 PM	<b>Noa Vazeux-Blumental</b>	<i>Co-adaptation in intercropping: a case study of maize-bean association</i>
3:00 PM	<b>Jennifer Gleason</b>	<i>Aggression levels in females differs across species in association with reproductive potential</i>
3:15 PM	<b>Edita Folfas</b>	<i>Dietary niche breadth of island and mainland Anolis lizards</i>
3:30 PM	<b>Hayat Mahdjoub</b>	<i>The good gene vs the compatible gene in Drosophila melanogaster</i>



**Room: 523AB**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Ecology III**

2:30 PM	<b>Lea Richardson</b>	<i>Identifying genomic associations to climate in keystone desert species</i>
2:45 PM	<b>Olivia Rahn</b>	<i>Investigating patterns of population stability across a species geographic range and environmental niche</i>
3:00 PM	<b>Chris Talbot</b>	<i>Do flowers of a color bloom together?: Patterns of, and relationships between, floral color and phylogenetics in North America</i>
3:15 PM	<b>Mario Sandoval Molina</b>	<i>Evolution of plant defenses in sensitive plants of the Mimosa clade: Thigmonasty, and Physical Defenses</i>
3:30 PM	<b>Katherine Holmes</b>	<i>Enemies above and below: Evolution of chemistry across a tropical plant genus</i>



**Room: 524A**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Coevolution II**

2:30 PM	<b>Taichi Suzuki</b>	<i>Host genetic effects on the mammalian microbiome</i>
2:45 PM	<b>Hélène Dion-Phénix</b>	<i>Effect of aromatic plants used as ornaments in the nest on nest bacterial microbiota and nestling condition in blue tits.</i>
3:00 PM	<b>Brooke Sienkiewicz</b>	<i>How Microbiomes Contribute to Resiliency in Stony Coral Tissue Loss Disease</i>
3:15 PM	<b>Daniel Morales</b>	<i>Genetic Conflict to Cooperative Defense: Domestication of Long-Terminal Repeat retrotransposons in mosquitoes and the emergence of a novel heritable adaptive immune pathway</i>
3:30 PM	<b>Chris Wilson</b>	<i>Bdelloid rotifers fight fungal pathogens by deploying biosynthetic genes acquired horizontally from bacteria</i>



**Room: 524B**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Comparative biology III**

2:30 PM

**Yu Kai Tan**

*Specialised Collectors? High Within and Among Species Variation in Collecting Behavior of Carrier Snails (Family: Xenophoridae)*

2:45 PM

**Emily Troyer**

*They might not be giants: Genetic convergence on miniaturization in goby fishes*

3:00 PM

**Ellen Martin**

*Toe the line: is evolution in birds constrained by the morphology of their feet?*

3:15 PM

**Leroy Nuñez**

*Comparative Genomics Unlock Ecological Opportunity in a Continental Radiation of Snakes*





**Room: 524C**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Molecular evolution II**

2:30 PM	<b>Vincent Kiplangat Bett</b>	<i>Chromatin Landscape is Associated with Sex-biased Expression and Drosophila-like Dosage Compensation in Artemia franciscana</i>
2:45 PM	<b>Nathan Sykes</b>	<i>Introgression and subtle population structure in threatened Pacific rockfishes</i>
3:00 PM	<b>Karolis Ramanauskas</b>	<i>Phylogenetic conflict in organellar genomes, locus-by-locus</i>
3:15 PM	<b>Angel Fernando Cisneros Caballero</b>	<i>Mutational biases favor complexity increases in protein interaction networks after gene duplication</i>
3:30 PM	<b>Minjie Fu</b>	<i>How amphibian hosts may adapt to an emerging pathogen through MHC evolution?</i>



**Room: 525AB**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Hybridization III**

2:30 PM	<b>Lydia Morley</b>	<i>The Spatial and Phylogeographic Correlates of Hybridization in Vascular Plants</i>
2:45 PM	<b>Trevor Faske</b>	<i>Convergent patterns of mosaic hybrid zones in plants across western North America</i>
3:00 PM	<b>Sara Carvalho Madrigal</b>	<i>Introgressive hybridization plays an essential role in peripheral, founding, and expanding populations of wax palms (genus <i>Ceroxylon</i>)</i>
3:15 PM	<b>Benjamin Stone</b>	<i>Species boundaries and the molecular basis of divergent pollination syndromes in replicate hybrid zones</i>
3:30 PM	<b>Rong-Chien Lin</b>	<i>The interplay of activators and repressors: transgressive segregation of flower color in <i>Mimulus</i></i>



**Room: 518B**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Mutualism**

2:30 PM	<b>Pooja Nathan</b>	<i>Understanding the effects of biogeography and domestication on a facultative ant-plant mutualism in an ancient alien species</i>
2:45 PM	<b>Phoebe Cunningham</b>	<i>Roles and regulations: nutrient provision and host regulation of symbionts in three distinct lineages of ants</i>
3:00 PM	<b>Mario Ceron Romero</b>	<i>Genome architecture plays an important role in population diversity and clade evolution in <i>Sinorhizobium meliloti</i></i>
3:15 PM	<b>Fran Cedrola</b>	<i>Genomics of ciliates from rumen and cecum of herbivorous mammals: a functional comparative approach</i>
3:30 PM	<b>Joshua Jones</b>	<i>Dynamic adjustments in microbiome composition support life stage-specific needs in a dung beetle</i> <b>WITHDRAWN</b>



**Room: 519AB**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Predation**

2:30 PM	<b>Tom Reader</b>	<i>The accuracy of Batesian mimicry is in the eye of the beholder</i>
2:45 PM	<b>Christopher Taylor</b>	<i>The importance of shape, colour, pattern and size to different predators discriminating Batesian mimics from their models</i>
3:00 PM	<b>Shreenidhi Perukkaranai Madabhusi</b>	<i>Innate and learned prey preference in a protist predator, Dictyostelium discoideum</i>
3:15 PM	<b>Margaret Steele</b>	<i>Predation resistance in Pseudomonas bacteria</i>
3:30 PM	<b>Arlety Roy</b>	<i>Dual Defense Strategies: Exploring the Aposematic and Cryptic Continuum in Ithomiini Butterflies</i>



**Room: 516B**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Evolution in zoos and conservation breeding programs**

2:30 PM	<b>Alisa Solecki</b>	<i>Incidental loss of genetic diversity in a captive breeding colony of endangered raptorial songbirds</i>
2:45 PM	<b>David Tian</b>	<i>Conservation genomics of the endangered Devils Hole pupfish (<i>Cyprinodon diabolis</i>)</i>
3:00 PM	<b>Nick MacDonald</b>	<i>Tasmanian devil immune response to captivity and cancer</i>
3:15 PM	<b>Kerry Roe</b>	<i>Does variation in the major histocompatibility complex (class II) correlate with hatchling survival in Eastern Loggerhead Shrike (<i>Lanius ludovicianus migrans</i>)</i>
3:30 PM	<b>Rachel Gray</b>	<i>Genomic tools to design and track a unique captive breeding program for Galapagos giant tortoises</i>



**Room: 516C**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**The completion of speciation: coupling, persistence and the micro-macro link**

2:30 PM	<b>Guilherme Azevedo</b>	<i>Integration of micro and macroevolutionary models sheds light on the speciation of cave spiders in an environment threatened by urbanization</i>
2:45 PM	<b>Sean Anderson</b>	<i>Tracking changes in the reversibility of postzygotic isolation through time</i>
3:00 PM	<b>Jeanne Robertson</b>	<i>Premating behavioral reproductive isolation is incomplete across five lineages of Neotropical leaf frogs, and shows possible tipping points</i>
3:15 PM	<b>Sophia Lambert</b>	<i>Unraveling the modes of speciation in prokaryotes through population pangenomic using metagenomes-assembled genomes</i>
3:30 PM	<b>Francois Monnet</b>	<i>Using ABC approaches to compare the dynamics of reproductive isolation among groups of organisms: comparing the speed of speciation in plants vs animals</i>



**Room: 516D**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Evolving the publishing ecosystem**

2:30 PM	<b>Michael Dawson</b>	<i>Evolving the Publishing Ecosystem: A brief history of scientific publications and a coalition for #BetterPublishing</i>
2:45 PM	<b>Stefanie Haustein</b>	<i>Navigating the complex landscape of academic publishing: Understanding Green, Gold and Diamond Open Access</i>
3:15 PM	<b>Josephine Sciortino</b>	<i>Challenges and Opportunities in Transparent and Sustainable Research Dissemination: Insights from a Not-for-Profit Publisher</i>
3:30 PM	<b>Leticia Ochoa-Ochoa</b>	<i>Scientific publishing perspectives from the non-Atlanticist countries</i>



**Room: 516E**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Evolutionary ecology X**

2:30 PM	<b>James Stroud</b>	<i>Fluctuating selection and estimating a community-wide fitness landscape</i>
2:45 PM	<b>Grace Zhang</b>	<i>Fitness costs and benefits of resistance to herbicide and herbivory</i>
3:00 PM	<b>Jørgen Søraker</b>	<i>On the scale of selection- spatiotemporal synchrony in selection on reproductive traits</i>
3:15 PM	<b>Alexander Mauro</b>	<i>How a tradeoff constrains the range limit of the Trinidadian Guppy</i>
3:30 PM	<b>Richard Sulser</b>	<i>Speeding up shape: combining <math>\mu</math>CT and deep learning to characterize phenotypic evolution in threespine stickleback</i>





**Room: 520A**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Reproductive biology I**

2:30 PM	<b>Sylvain Milla</b>	<i>A not-so-model species: domestication as an evolutionary process leading to growth and reproductive differences between the lines of zebrafish <i>Danio rerio</i></i>
3:00 PM	<b>Rachel Keeffe</b>	<i>Evolutionary morphology of snake hemipene spines informed by puncture mechanics</i>
3:15 PM	<b>Sofia Costa</b>	<i>Sex, drugs and heat: spider mites face a sex-specific trade-off between heat tolerance and pesticide resistance in a pesticide-free environment</i>
3:30 PM	<b>Kathryn Elmer</b>	<i>Genomic Landscape of Oviparity and Viviparity: Insights from Natural Hybrids in Common Lizards</i>



**Room: 520B**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Pathogens & Microbiota**

2:30 PM	<b>Camila Souza Beraldo</b>	<i>The microbiota composition of an insect community is explained by species and seasonality differences but not habitat disturbance</i>
2:45 PM	<b>Irish Amundson</b>	<i>Are two transmission modes better than one?</i>
3:00 PM	<b>Michael May</b>	<i>A method for de novo identification of transmission-enhancing mutations in viral genomes</i>
3:15 PM	<b>Elise Bull</b>	<i>Pan-GWAS identifies a mobile genetic element associated with convergent evolution of virulence in <i>Xanthomonas campestris</i></i>



**Room: 520C**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Urban evolutionary dynamics and species interactions**

2:30 PM	<b>Samantha Kreling</b>	<i>A Framework for Identifying Candidate Genes for Urban Adaptation: A Case Study in Coyotes</i>
2:45 PM	<b>Aude Caizergues</b>	<i>A theoretical framework for understanding neutral urban eco-evolutionary change</i>
3:00 PM	<b>Warren Booth</b>	<i>Socioeconomic disparities shape indoor urban pest insect genetic structure</i>
3:15 PM	<b>Alejandra Arana Salinas</b>	<i>Population genomics reveals how 5 ka of human occupancy led the Lima leaf-toed gecko to the brink of extinction</i>
3:30 PM	<b>Elizabeth Carlen</b>	<i>Evolution of eastern gray squirrels in urban environments</i>



**Room: 520D**

**2:30 PM – 3:45 PM**

**Tuesday, July 30**

**Within-organism conflicts**

2:30 PM	<b>Marwa Tuffaha</b>	<i>Hypermutator and non-hypermutator cancers access driver mutations by two distinct mechanisms</i>
2:45 PM	<b>Israt Jahan</b>	<i>Hourglass or Funnel? Investigating the evolution of form in the social amoeba using genomic phylostratigraphy</i>
3:00 PM	<b>Kalyani Twyman</b>	<i>The clonality window: relatedness and the group covariance effect in the evolution of division of labour</i>
3:15 PM	<b>Joseph Dubie</b>	<i>Fusion, fission, and destruction: how intracellular homeostasis determines the fate of heteroplasmic mitotypes in <i>Caenorhabditis elegans</i></i>
3:30 PM	<b>Dinah Davison</b>	<i>Facultative conflict mediation in <i>Eudorina</i></i>



# TUESDAY, JULY 30: AFTERNOON BREAK

## UDE coffee social

**Room: 518A: 3:45 PM - 4:15 PM**

### Description:

Small social coffee break for attendees participating as part of the [Undergraduate Diversity at Evolution](#) program.

## Fieldwork mixer

**Room: 725: 3:45 PM - 4:15 PM**

Breakout smaller group networking opportunities for doing fieldwork), during regular break time, but in a different space. (Preregistration not required. Coffee/Tea/Snacks included)

## Coffee break

**Room: 220DE: 3:45 PM - 4:15 PM**

Coffee, Tea, Water & Snacks

### Exhibitor Booths:

- ASN/SSB/SSE/ESEB Grad Committees
- BES - British Ecological Society
- DataClassroom
- Joint Diversity Committee
- Journal of Evolutionary Biology
- Oikos
- Oxford University Press
- Princeton University Press
- Royal Society Publishing
- SSE Journals
- SSE Public Policy
- SySTEM BIO-LEAPS
- University of Chicago Press
- US National Science Foundation
- Vanderbilt University
- Yale University Press



**Room: 520E**

**4:15 PM – 5:30 PM**

**Tuesday, July 30**

## **Phylogeography II**

4:15 PM	<b>Luana Soares</b>	<i>Unraveling the secrets of fast divergence in the South Brazilian Highlands: geographic isolation, ecological adaptation, and hybridization</i>
4:30 PM	<b>Brian Waldron</b>	<i>The limits of the metapopulation: Lineage fragmentation in a widespread terrestrial salamander (<i>Plethodon cinereus</i>)</i>
4:45 PM	<b>Eamon Corbett</b>	<i>Phylogeography, hybridization, and eye color variation of Boat-tailed and Great-tailed Grackles</i>
5:00 PM	<b>Tobias van Elst</b>	<i>Comparative phylogeography of <i>Microcebus</i> species in a centre of biodiversity in northeastern Madagascar</i>
5:15 PM	<b>Rozenn Pineau</b>	<i>Exploring the mosaic of somatic mutations in a very ancient and still-living forest, the Pando clone</i>



**Room: 520F**

**4:15 PM – 5:30 PM**

**Tuesday, July 30**

**Plant reproductive biology**

4:15 PM	<b>Bridget Bickner</b>	<i>Maintenance of discrete seed packaging morphs across a heterogenous landscape in <i>Phlox longifolia</i></i>
4:30 PM	<b>Grace Burgin</b>	<i>The genetic basis of self-pollen recognition in <i>Phlox</i> wildflowers</i>
4:45 PM	<b>Jeremiah Busch</b>	<i>A test of Stebbins' dead-end hypothesis with artificial selection</i>
5:00 PM	<b>Melody Sain</b>	<i>Investigation of sex-specific genomic regions in the two independent origins of dioecy in the meadow rues, <i>Thalictrum</i> (Ranunculaceae)</i> <b>WITHDRAWN</b>
5:15 PM	<b>Desmond Willson</b>	<i>Selection during reproduction in <i>Mimulus guttatus</i></i> <b>WITHDRAWN</b>



**Room: 524B**

**4:15 PM – 5:30 PM**

**Tuesday, July 30**

**Invasion biology**

4:15 PM	<b>Taylor Zallek</b>	<i>Contingency and conferred evolutionary resistance to invasion: An empirical test of evolutionary invasional meltdowns using experimental duckweed communities and invasive <i>Salvinia</i></i>
4:30 PM	<b>Kathryn Turner</b>	<i>Shifting phenology across the invaded range of Blue Mustard (<i>Chorispora tenella</i>)</i>
4:45 PM	<b>Azwad Iqbal</b>	<i>The Population Genomics of Invasion: Insights into the Pacific Coast Invasion of American shad (<i>Alosa sapidissima</i>)</i>
5:00 PM	<b>Katarina Stuart</b>	<i>Structural variants and transposable elements as hidden components of whole genome variation</i>
5:15 PM	<b>Bailey Howell</b>	<i>The legacy of macroevolution: predicting invasion capacity across lizards</i>





**Room: 524C**

**4:15 PM – 5:30 PM**

**Tuesday, July 30**

**Molecular evolution III**

4:15 PM	<b>Gwenaelle Vigo</b>	<i>Identifying genomic signatures associated with ancient and recent host-plant shifts</i>
4:30 PM	<b>Anthony Rajkumar</b>	<i>The molecular evolution of vision across the marine to freshwater transition in South American stingrays</i>
4:45 PM	<b>Nathaniel Himmel</b>	<i>Twilight zone homologs of insect Odorant receptors are evolutionarily constrained, sperm-expressed proteins conserved in humans, flies, and beyond</i>
5:00 PM	<b>Jess Sterling</b>	<i>Mitochondrial Resilience: Unveiling the Secrets of Longevity</i>
5:15 PM	<b>Jean-Charles de Coriolis</b>	<i>Decoding ageing: Germline Influence on Somatic Repair Mechanisms in Zebrafish (<i>Danio rerio</i>)</i>



**Room: 525AB**

**4:15 PM – 5:30 PM**

**Tuesday, July 30**

**Hybridization IV**

4:15 PM

**Beatriz Portinha**

*Effect of temperature on the development of hybrid and non-hybrid mound building wood ants*

4:30 PM

**Tianzhu Xiong**

*Infinitesimal sex-autosome interaction explains two speciation rules in butterflies*

4:45 PM

**Dmitrij Dedukh**

*Beyond Sex: Investigating Cytogenetic Mechanisms of Asexual Reproduction in Natural and Laboratory Hybrid Loaches (Cobitidae)*

5:00 PM

**Luis Rodrigo Arce-Valdés** *Divergent genomic patterns of introgression across regions in a complex mottled hybrid zone of damselflies.*

5:15 PM

**Anthony Barley**

*Hybridization and speciation genomics in whiptail lizards (Aspidoscelis)*



**Room: 516C**

**4:15 PM – 5:30 PM**

**Tuesday, July 30**

**The completion of speciation: coupling, persistence and the micro-macro link**

4:15 PM	<b>Daisuke Kyogoku</b>	<i>Reverse magic effect: pleiotropic stabilization of ecological coexistence by reproductive trait divergence</i>
4:30 PM	<b>Iva Popovic</b>	<i>Introgression shapes genetic diversity in Acropora cryptic corals</i>
4:45 PM	<b>Elsie Shogren</b>	<i>Conflicting patterns of introgression: incompatibilities and gene flow in hybridizing honeyeaters with neo-sex chromosomes</i>
5:00 PM	<b>Timothy Barraclough</b>	<i>Does selection favour the maintenance of porous species boundaries?</i>



**Room: 516D**

**4:15 PM – 5:30 PM**

**Tuesday, July 30**

**Evolving the publishing ecosystem**

4:15 PM      **Amanda Taylor**      *Perspectives from Early Career Researchers*

4:30 PM      **Gene Springs**      *Disseminating science: Perspectives from libraries*

4:45 PM      **John Willinsky**      *Scholar-led Initiatives in Open Access / Open Source Scholarly Communication*

5:00 PM      **Max Reuter**      *Publishing in Scientific Societies' Journals*

5:15 PM      **Bryan Carstens**      *Evolving the Publishing Ecosystem*



**Room: 516E**

**4:15 PM – 5:30 PM**

**Tuesday, July 30**

**Evolutionary ecology XI**

4:15 PM	<b>Ethan Bass</b>	<i>Microbial interactions may maintain balancing selection on polyacetylene investment in tall goldenrod (<i>Solidago altissima</i>)</i>
4:30 PM	<b>Adria LeBoeuf</b>	<i>Metabolic division of labor across the superorganism</i>
4:45 PM	<b>Sebastian Maciak</b>	<i>Cancer and evolution of metabolic rate</i>
5:00 PM	<b>Penelope Kahn</b>	<i>Environmental interaction of toxic metals impacting evolutionary rescue in yeast</i>
5:15 PM	<b>Raphaël Fougeray</b>	<i>Interplay between abiotic and biotic factors across altitudes, and their influence on <i>Ithomiini</i> butterfly biodiversity</i>



**Room: 520A**

**4:15 PM – 5:30 PM**

**Tuesday, July 30**

**Reproductive biology II**

4:15 PM	<b>Patricia Brennan</b>	<i>Examining Modularity and Integration of Copulatory Structures in Spotted Ratfish, <i>Hydrolagus colliei</i></i>
4:30 PM	<b>Rhiannon Eastment</b>	<i>The evolutionary genetics of mouthbrooding in African cichlids</i>
4:45 PM	<b>Samantha Trame</b>	<i>Variation in external nasal gland morphology across <i>Plethodontidae</i></i>
5:00 PM	<b>Carlos Prada</b>	<i>Speciation across depth gradients in reef corals</i>



**Room: 520C**

**4:15 PM – 5:30 PM**

**Tuesday, July 30**

**Urban evolutionary dynamics and species interactions**

4:15 PM	<b>Matt Jenkins</b>	<i>Adapting after dark: Evolutionary responses of an urban fish to artificial light at night</i>
4:30 PM	<b>Ella Martin</b>	<i>Eco-evolutionary dynamics of urban white clover</i>
4:45 PM	<b>Megan Thompson</b>	<i>The city and forest bird flock together in a common garden</i>
5:00 PM	<b>Florencia Soterias</b>	<i>Conflicting mutualisms and antagonisms of a hawkmoth-pollinated plant species and their selective pressures in an urbanization context</i>
5:15 PM	<b>Sylvana Ross</b>	<i>Evolution in the City: Racism's Influence on Urban Wildlife Adaptations</i>



**Room: 520D**

**4:15 PM – 5:30 PM**

**Tuesday, July 30**

**Within-organism conflicts**

4:15 PM	<b>Tatiana Dimitriu</b>	<i>Evolution of vertical and horizontal transmission in bacterial plasmids and consequences for the spread of AMR</i>
4:30 PM	<b>Anne-Lise Gerard</b>	<i>Face-off: competition between two transmissible cancers in Tasmanian devils</i>
4:45 PM	<b>Asher Leeks</b>	<i>Evolutionary conflict within viral populations: from evolutionary genetics to predicting clinical outcomes</i>
5:00 PM	<b>Scott Roy</b>	<i>Intragenomic conflict as a constructive force in evolution</i>





## TUESDAY, JULY 30: EVENING EVENTS

**6:30 PM - 11:30 PM**

**Super Social Banquet (pre-registration required)**

**Offsite: Grand Quai**

**Address:** *200 Rue de la Commune O, Montréal H2Y 4B2*

**Map:** <https://www.port-montreal.com/en/grand-quay-map>

(Note: Tickets for this event must have been purchased in advance).



