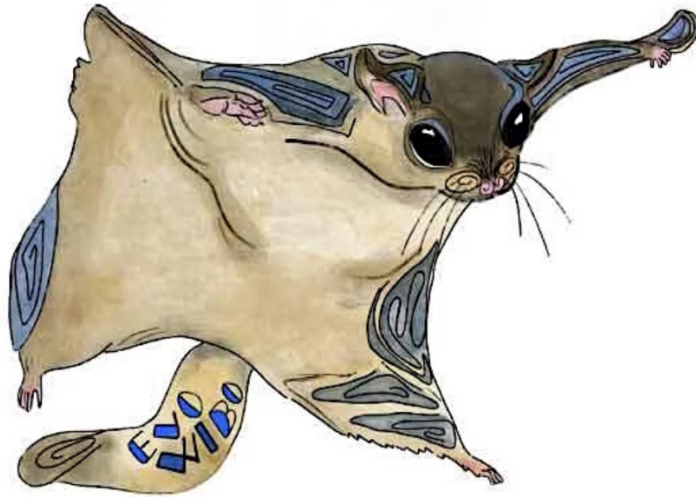


Welcome to EVO-WIBO 2023



Conference Schedule Overview

Friday (PM)	
4:00-10:00	Check-In (Bldg 204)

Saturday	
8:15 - 9:00	Breakfast (Cafeteria in Commons D)
9:00 - 9:15	Welcome (Commons A)
9:15 - 10:30	Talk Session1 (Commons A)
10:30 - 11:45	Poster Session 1 [Posters 1- 26] & Coffee Break (Bldg 204)
11:45 - 12:45	Talk Session 2 (Commons A)
12:45 - 1:45	Lunch (Cafeteria)
2:00 - 3:30	Talk Session 3 (Commons A)
3:30 - 4:45	Poster Session 2 [Posters 27- 52] & Coffee Break (Bldg 204)
4:45 - 6:00	Talk Session 4 (Commons A)
6:00 - 7:00	Dinner (Cafeteria)
8:00 - 8:45	Town Hall and Awards (Commons A)
9:00 - 12:00	Mixer (Dorm 203 Downstairs Common Area)

Sunday	
8:15 - 9:00	Breakfast (Cafeteria)
9:00 - 10:00	Plenary by Prof. Amy Angert (Commons A)
10:00 - 11:00	Key Check Out & Coffee Break (Commons A)
11:00 - 12:30	Talk Session 5 (Commons A)

Saturday Schedule

Talk Session 1

9:00		WELCOME
9:15	Dale Clement	Can the rapid evolution of disease resistance prevent the extinction of Tasmanian devils (<i>Scarcophilus harrisi</i>)?
9:30	Justin Merondun	Trans-species balanced color polymorphisms through sex-specific genetic architecture coauthor: Cristiana Marques
9:45	Seth Rudman	The eco-evolutionary consequences of rapid adaptation coauthors: Sharon Greenblum, René Shahmohamadloo, Dmitri Petrov, Paul Schmidt
10:00	Bryn Wiley	On the fast track: hybrids adapt more rapidly than parental populations in a novel environment
10:15	Tom Booker	Understanding the genetic basis of convergent local adaptation in conifers

10:30 Bldg 204 **POSTERS 1-26**

Talk Session 2

11:45	Emma Green	Adaptive decline: How does landscape structure influence the evolution of population dynamic traits?
12:00	Chris C Smith	Estimating spatial demographic maps from genetic data with deep learning coauthors: Gilia Patterson, Peter Ralph, Andrew Kern
12:15	Amy Forsythe	Variety is the spice of life: variation in life histories influences population growth and the evolution of senescence
12:30	Olivia Kosterlitz	Evolutionary crowdsourcing: alignment of fitness landscapes allows cross-species adaptation of a horizontally transferred gene

12:45 Cafeteria **LUNCH**

Talk Session 3

2:00	Avneet Chhina	Do genome-wide SNPs and putatively adaptive SNPs identify the same set of distinct populations?
2:15	Rebecca Maher	Inside or out: Comparative genomic analysis of <i>Bdellovibrio</i> bacterial predators yields insights into genes associated with epibiotic vs periplasmic predation
2:30	Benjamin Haagen	Mapping heritable genetic variation underlying protein expression dynamics during mating pheromone response in haploid <i>Saccharomyces cerevisiae</i>
2:45	Hope Healey	Developmental genetic underpinnings for toothlessness in syngnathids coauthor: William Cresko
3:00	Nikea Ulrich	Life at the edge of the rainbow: diversification of light harvesting in the cyanobacterium <i>Acaryochloris marina</i>
3:15	Zachary Stevenson	Quantitative high throughput measurement of selection in an animal system via novel library transgenesis

Poster Session 2

3:30 Bldg 204 **POSTERS 27-52**

Talk Session 4

4:45	Gregory Owens	Parallel evolution in a long-term experimental hybrid population of sunflowers
5:00	Peter Conlin	Division of labor promotes the entrenchment of multicellularity coauthors: Heather Goldsby, Eric Libby, Katherine G. Skocelas, William C. Ratcliff, Charles Ofria, and Benjamin Kerr
5:15	Zachary Dietz	Sex and mitonuclear adaptation in experimentally evolved <i>C. elegans</i>
5:30	Reshmi Upreti	Test of adaptations in 5000 generations of mutualism coauthor: Kristina Hillesland
5:45	Julia M. Kreiner	Rapid adaptation to agriculture over the last 200 years

Dinner

6:00	Cafeteria	DINNER
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Awards

8:00	Commons A	TOWN HALL AND AWARDS
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Mixer

9:00	Dorm 203 Downstairs Common Area	MIXER
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Sunday Schedule

Plenary

9:00	Plenary by Amy Angert: Evolutionary rescue during climate extremes
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CHECK OUT

10:00	Commons A	Key Check Out
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Talk Session 5

11:00	Ben Ashby	Eco-evolutionary dynamics in the host microbiome
11:15	Tyler Kent	Genome structure shapes patterns of introgression from <i>Capsella rubella</i> to <i>Capsella grandiflora</i>
11:30	Ailene MacPherson	Inferring evolutionary processes driving local adaptation
11:45	Andrew Anderson	The ancestral modulation hypothesis: Predicting regulation of sex-biased traits using evolutionary history
12:00	Dan Pollard	Natural variation in codon bias and mRNA folding strength interact synergistically to modify protein expression in <i>Saccharomyces cerevisiae</i>
12:15	Bob Week	Modeling adaptation of microbiome-mediated traits coauthors: Brendan Bohannon, Peter Ralph, Bill Cresko

Poster Session 1

Saturday 10:30 -11:45
Posters 1- 26

Poster	Presenter	Poster title
1	Penny Kahn	Genetic and environmental interactions in the adaptation to heavy metals
2	Nathan Grassi	New host who dis? Exploring the factors that shape protein evolution
3	Peter Ralph	Spatial models in population genetics
4	Victoria Caudill	Cracking coevolution: Consequences of space and interactions
5	Gilia Patterson	Reconstructing a spatial demographic history of <i>Nebria</i> beetles in the Sierra Nevada using simulations and approximate Bayesian computation
6	Gabrielle Coffing	Leveraging a long-read assembly for comparative and functional genomics of the <i>Octopus bimaculoides</i>
7	Aryana Merritt-Johnson	Genome of the Pacific madrone
8	Amir Gabidulin	The adaptation of behavior in <i>Drosophila melanogaster</i> in exposure to Spinosad
9	Elizabeth Wirsching	An efficient method of nuclei extraction for epigenetic analysis
10	Matthew Zinkgraf	Comparative genomics analysis of gravitropic response in a phylogenetic survey of Angiosperm trees
11	Nicola Love	Optimizing management strategies considering trophic feedbacks
12	Bernadette Johnson	The evolution of the gonad transcriptome in pregnant male pipefishes and seahorses
13	Alireza G. Tafreshi	Direct and in-direct fitness effects on sex ratio
14	Heidi Abresch	Fixing nitrogen on the day shift: Altered gene expression in a cyanobacterial endosymbiont
15	Duncan Ralph	Using B cell receptor lineage structures to predict antibody affinity
16	Elijah Reyes	The role of spatial structure in the evolution of parental care
17	Shanie Lynn Jorgenson	<i>Daphnia's</i> response to ecological disaster
18	Tait Algayer	A survey of greb1l and rock1 gene expression in Chinook salmon, <i>Oncorhynchus tshawytscha</i>
19	Molly Garrett	Application of landscape community genomics to the sagebrush system
20	Jeffrey Lubisich and Campbell Bastian	Body size evolution in small carnivorans: modern models and deep-time trends
21	Kara Ryan	Selection on standing genetic variation mediates convergent evolution in an extremophile fish
22	Minh Phan	Fine-mapping causal polymorphisms underlying differential protein expression in <i>S. cerevisiae</i>
23	Hannah Lewack	Tissue-Specific daf-2/IGFR Impacts on health span in <i>Caenorhabditis elegans</i> males
24	Kaede Hirabayashi	Lingonberry (<i>Vaccinium vitis-idaea</i>) genome evolution and diversity

Poster Session 1 - continued

25	Anastasia Teterina	The effect of a vast population size on genome organization and evolution in the nematode <i>Caenorhabditis brenneri</i>
26	Thomas Nonacs	Longevity & fecundity trade offs and the effect of rapamycin in <i>Drosophila melanogaster</i>

Poster Session 2

Saturday 3:30 -4:45
Posters 27- 52

Poster	Presenter	Poster title
27	Asad Hasan	The effects of background selection on weakly deleterious alleles on FST
28	Jaime Schwoch	Somatic mutations and signatures of selection in plants
29	Seth D. Temple	Robust statistical inference of very recent and strong incomplete selective sweeps
30	Nathan Sykes	Population structure of inshore BC rockfishes
31	Erin Wiese	Temperature and genetic effects on <i>Oncorhynchus mykiss</i> physiology
32	Shannon Snyder	Uncovering the epigenomic basis of environmentally induced phenotypic plasticity in <i>Daphnia</i>
33	Kristin Hultgren	Evolution of chela shape in symbiotic snapping shrimps (<i>Alpheus</i>)
34	Craig Wells	Population assignment of entrained migratory westslope cutthroat trout in north Idaho
35	Ryan Garcia	Testing the utility of iPBS for measuring genetic variability in buttercups
36	Katie McHugh and Molly Burke	Age-specific sexual fertility across diverse strains of <i>Saccharomyces cerevisiae</i>
37	Catherine Clare	Acclimation & adaptation: Using gene expression to predict rapid evolution
38	Ian Oiler	Limestone drives differences in <i>Oreohelix</i> land snail microbiomes
39	Kristen Martinet	SSARP: Easily project species-area relationships
40	Thomas Buchloh	Does mutation pressure predict polyploid speciation? Testing the neutral model in ferns
41	Caroline Terry	The prevalence and significance of temporal environmental variation in marine biology experiments
42	Brendan Mobley	Runaway chromosome evolution in a clade of freshwater fish
43	John Orcutt	Fossils, humeri, and the evolution of burrowing in squirrels

Poster Session 2 - continued

44	Olivia Dong and Aidan Corbin	Investigating age-related loss of chromatin silencing in natural isolates of <i>S. cerevisiae</i>
45	Clara Rehmann	Location, location, location: Dissecting errors in machine learning prediction of geography
46	Jordan Bemmels	Population genomics for kelp conservation in BC and Washington
47	Alex Pinch	Modelling deleterial load accumulation in locally adaptive inversions
48	Niall Millar	How do yield traits and symbiosis traits correlate in pea cultivars?
49	Lei Yang	Retrocopy-based genomic innovation: a nexus in the evolutionary conflict between host innate immunity and reverse-transcribing pathogens
50	Walker Meyer	Transgenerational epigenetic inheritance in <i>Daphnia lumholtzi</i>
51	Ricky Padilla-Del Valle	Young & hot L1s in the human genome evade host restriction factor TEX19 suggesting L1s evolved via escape
52	Jacob Tennessen	Population genomics of Plasmodium-transmitting mosquitoes in South America

EVO-WIBO 2023 is dedicated to the life of Dick Gomulkiewicz, a foundational member of our community, for his contributions to the field, mentorship, friendship, and unfailing kindness.

Acknowledgements

This year we are grateful to have financial support from The American Society of Naturalists, which sponsored registration of their student members. Hearty thanks as well to all our members who helped by moderating sessions, judging students talks and posters, and doing all the small but important things people do to help make things run smoothly. Special thanks to Allisondra Shackelford at Fort Worden, who has been great to work with. Special thanks also to Pat Carter, for sharing his advice and experience. Finally, thanks to all of you for coming and for making EVO-WIBO such a great meeting!

Alison Scoville & Mike Whitlock



Don't get lost!

