

Conference Schedule at a Glance

SATURDAY	
8:15 – 9:00	Breakfast (Cafeteria)
9:00 – 9:15	Welcome (Commons A)
9:15 – 10:30	Talk Session 1 (Commons A)
10:30 – 11:45	Poster Session 1 (Bldg. 204) [Odd numbers]
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 (Bldg. 204) [Even numbers]
4:45 – 6:30	Talk Session 4 (Commons A)
7:00 – 8:00	Dinner (Cafeteria)
8:15 – 9:00	Town Hall and Awards (Commons A)
9:00 – 12:00	Mixer (Bldg. 204)

SUNDAY	
8:15 – 9:00	Breakfast (Cafeteria)
9:00 – 10:00	Plenary by Prof. Sarah Otto (Commons A)
10:00 – 11:00	Coffee break (Commons A)
11:00 – 12:30	Talk Session 5 (Commons A)

Full Talk Schedule

TALK SESSION 1: THE GENETIC UNDERPINNINGS OF EVOLUTION (“Talk about my gene-ration”)		
SATURDAY, 9:15AM – 10:30AM		
9:15 – 9:30	Experimental evidence for variation in mutation rate due to condition-dependent DNA repair	Nathaniel Sharp , Aneil F. Agrawal
9:30 – 9:45	Genetic basis of an evolved acute stress response in the nematode <i>Caenorhabditis remanei</i>	Christine H. O’Connor , Kristin L. Sikkink, Janna Fierst, John Willis, Patrick C. Phillips
9:45 – 10:00	The relationship between plasticity of robustness	Remi Matthey-Doret , Jeremy A. Draghi, Michael C. Whitlock
10:00 – 10:15	Plasmid persistence in <i>Acinetobacter baumannii</i> in biofilms and liquid cultures	Genevieve Metzger , B. Ridenhour, T. Stalder, M. Settles, J. Millstein, K. Gliniewicz, M. France, L. Forney, E. Top
10:15 – 10:30	Genetic interactions between beneficial mutations in <i>Saccharomyces cerevisiae</i>	Jasmine Ono , Aleeza C. Gerstein, Sarah P. Otto

Moderator: Devin Drown

TALK SESSION 2: EVOLUTION AND MATING SYSTEMS (“G’day mate”)		
SATURDAY, 11:45AM – 12:45PM		
11:45 – 12:00	Plant dispersal in fragmented landscapes: from pollen flow in a tropical tree to seed dispersal in Pacific Northwest prairies	Pamela G. Thompson
12:00 – 12:15	Male fruit flies use redundant female cues to make rational mate choices	Devin Arbuthnott , Daniel Promislow
12:15 – 12:30	Plant mating system influences island biogeography and range size	Dena Grossenbacher , Jeremiah Busch
12:30 – 12:45	Inbreeding depression and the spread of selfing in polyploids	Nathan Layman , Jeremiah Busch

Moderator: Verónica Di Stilio

TALK SESSION 3: FROM POPULATION GENETICS TO POPULATION GENOMICS (“Pop over any time”)		
SATURDAY, 2:00PM – 3:30PM		
2:00 – 2:15	Source-sink dynamics in naturally re-established Pacific Northwest wolves	Sarah Hendricks , Rena Schweizer, Robert Wayne, Paul Hohenlohe
2:15 – 2:30	Clinal analysis of morphological and genetic variation in a Joshua tree hybrid zone	Anne M. Royer , Sean Stankowski, Christopher I. Smith
2:30 – 2:45	RAD genealogies highlight the role of ancient genomic variation during rapid adaptation in a threespine stickleback population	Thomas C. Nelson , William A. Cresko
2:45 – 3:00	Hox cluster variation and axial elongation of the Gulf Pipefish	Allison Fuiten , Susan Bassham, Emily Beck, Julian Catchen, Clayton Small, Adam Jones, William Cresko
3:00 – 3:15	Rapid evolutionary response to a transmissible cancer	Brendan Epstein , R. Hamede, S. Hendricks, M. Jones, H. McCallum, E. Murchison, B. Schönfeld, C. Wiench, P. Hohenlohe, A. Storfer
3:15 – 3:30	The genomic response to adaptation from standing genetic variation in experimental yeast populations	Tyler D Hether , Amanda Stahlke, Paul Hohenlohe

Moderator: Omar Cornejo

TALK SESSION 4: EVOLUTION IN THE TANGLED BANK (“Take it to the bank”)		
SATURDAY, 4:45PM – 6:30PM		
4:45 – 5:00	In stressful times, make new friends: Nutrient limitation drives the evolution of metabolic dependencies	Robin Green , Hanbing Mi, Wenying Shou
5:00 – 5:15	Sanctions, partner recognition, and variation in mutualistic symbiosis	Jeremy B. Yoder
5:15 – 5:30	Even evolution gets the blues	Brian D. Connelly , Sarah P. Hammarlund, Katherine J. Dickinson, and Benjamin Kerr
5:30 – 5:45	Cooperation between distinct viral variants promotes growth of H3N2 influenza in cell culture	Katherine S. Xue , Kathryn Hooper, Anja Ollodart, Adam Dingens, Jesse D. Bloom
5:45 – 6:00	Disentangling Darwin’s tangled bank with computational and microbial evolution experiments	Luis Zaman , Benjamin Kerr
6:00 – 6:15	The role of ploidy in host resistance	Christina Jenkins , Scott Nuismer, Mark Dybdahl
6:15 – 6:30	When predators help prey persist: the evolutionary hydra effect	Matthew Osmond , Christopher Klausmeier

Moderator: Wenying Shou

TALK SESSION 5: FACULTY MINI-SYMPOSIUM (“Have your faculties about you?”)		
SUNDAY, 11:00AM – 12:30PM		
11:00 – 11:15	Reconstructing the ancestral role of a key transcription factor involved in flowering	Verónica S. Di Stilio , Kristen Hewett Hazelton, Melissa J. Wong
11:15 – 11:30	Dissecting the causes of natural variation in protein expression dynamics	Dan Pollard , Ciara Asamoto, Austin Abendroth
11:30 – 11:45	Genome-wide patterns of genetic polymorphism and signatures of selection in <i>Plasmodium vivax</i>	Omar E. Cornejo , David Fisher, Ananias A. Escalante
11:45 – 12:00	Bet hedging in yeast responses to osmotic stress	Yoshikazu Hirate, Samuel Bottani, Suzannah Rutherford
12:00 – 12:15	Runaway nuclear-mitochondrial coadaptation leaves behind a residue of genomic conflict	Devin Drown , Michael Wade
12:15 – 12:30	Experimental evolution of incipient cooperation provides direct support for social evolution theory	Chichun Chen, Sam Hart, Jose Pineda, Wenying Shou

Moderator: Dan Pollard

POSTERS:

Note: Odd-numbered posters are presented in Poster Session 1 and even-numbered posters are presented in Poster Session 2

Poster	Presenter	Title
1	Austin Abendroth	Dissecting the causes of natural variation in protein expression dynamics
2	Kristin Alligood	Linking Phenotypic and Genomic Evolution in Stickleback and the Problem of Selection-Mediated Population Structure
3	Emily Beck	Drosophila speciation: All roads lead to Cid
4	Eva Biedron	A comparison of ungulate and sciurid paleoecologies
5	Ben Blue	Should I Lay or Should I Go? Examining Reproductive Patterning in <i>C. elegans</i> with Microfluidics
6	Megan Bontrager	Effects of gene flow on performance at the northern range margin of <i>Clarkia pulchella</i>
7	Elizabeth Brooks	An Extendable Software Architecture for Exploring the Effects of Developmental Interactions on Evolutionary Trajectories
8	Anthony Brown	Distinct pathways to adaptation to extremely sulfidic environments in closely related populations of fish
9	Jolie Carlisle	Investigation into the mechanisms of cooperation of H3N2 viral quasiespecies
10	Madeline Chase	Analysis of genome-wide variation reveals evolutionary relationships and resolves longstanding taxonomic controversy in a radiation of monkeyflowers (<i>Mimulus</i>)
11	Michelle Chen	Natural variation of longevity and the response to lifespan extending intervention in <i>Caenorhabditis</i>
12	Stephen Christy	Beneficial mutations improve fitness in a <i>Caenorhabditis elegans</i> mutation-accumulation line
13	Sally Claridge	Interaction of gene flow, selection, and genomic architecture on the genetics of heat stress adaptation in <i>Caenorhabditis remanei</i>
14	Johnathan Crandall	Characterization of recombination patterns in an F1 hybrid stickleback
15	Mark Currey	The discovery and description of a phenotypic and genetic cline in threespine stickleback populations that inhabit the McKenzie River
16	Yemesrach Demissie	Is specialization a typical outcome of 1000 generations of evolution in mutualism?
17	Jackson Drew	Testing the Effects of the Alaskan Microbiome on a Model Organism: <i>Arabidopsis thaliana</i>
18	Allison Eggert	Is it what you say or how you say it? Looking for expression differences between two apparently identical proteins.
19	Joane Elleouet	Understanding microevolution in an expanding conifer species using genomics and demography
20	Sylvie Estrela	The origins of microbial interdependencies
21	Nicholas Famoso	Eat, Weigh, Love: Diet and body mass drive reproductive strategies in mammals
22	J. Arthur Finger	Evaluating Concordance Between Mechanistic and Correlative Methods of Species Distribution and Performance
23	Brett Ford	Investigating Barriers to Gene Flow in the Endangered American Badger to Inform Conservation Action
24	Alexandra Fraik	Characterization of the adaptive genomic variation in Tasmanian devils <i>Sarcophilus harrisii</i> across their geographic range
25	Cooper French	Hybridization and Gene Flow Between Migratory and Non-Migratory Avian Species
26	Kimberly Gilbert	The interaction of migration load and expansion load during species range expansions
27	Monica Grasty	The effect of landscape features on fine-scale seed dispersal in upland prairie plants
28	Sarah Jacobs	Species delimitation in Castilleja
29	Hannah Jordt	Use it AND lose it: Alternating selection promotes horizontal gene transfer
30	Katja Kasimatis	Microfluidic Isolation and Evolutionary Analysis of the Nematode Sperm Proteome
31	Joanna Kelley	Adaptation to an extreme environment through genome reduction in the Antarctic midge, <i>Belgica antarctica</i>
32	H. Khosroyani & E. Eggink	The Evolution of Antibiotic Resistance and Collateral Sensitivity in <i>Escherichia coli</i>
33	Brendan Kohn	CallHap: A Pipeline for Population-Level Chloroplast DNA Analysis
34	Matt Lemay	The microbial ecology of kelp forests
35	Cierra Leon Guerrero	Some Like It Gradually Hot: The Effect of the Rate of Environmental Change on Available Evolutionary Pathways
36	Kathleen Luu	Looking for Evolution in Wastewater Treatment Plants
37	Aryanne Macarulay	Frequency dependence in the evolution of a syntrophic mutualism
38	Ailene MacPherson	Coevolution in an SIRS model
39	Jennifer Madrid Thorson	Genetic diversity in a parthenogenetic invader
40	Hannah Marx	Riders in the sky (islands): using macro-phylogenetic approaches to understanding species coexistence in the French Alps

41	Braedan McCluskey	Genome Structure Mediates Introgression in Zebrafish and Related Species
42	Leith Miller	Morphological innovation in the sensory system and diversification in Neotropical Leaf-Nosed Bats (Chiroptera: Phyllostomidae)
43	Diego Morales-Briones	Reticulate history of the Neotropical plant genus <i>Lachemilla</i> (Rosaceae)
44	Sebastian Mortimer	Genetic Structure of <i>Camassia</i> Species in the Snake River Watershed of Northeastern Oregon and adjacent Western Idaho
45	Danielle Oberg	New micromammals from the Mascall Formation of Oregon's Middle Miocene
46	Jessica Palacios	Diversity within and between Chilean <i>Mimulus</i> (Monkeyflower) species
47	Erica Qiao	What is the relative importance of genotypic diversity versus phenotypic plasticity on productivity under manipulated drought conditions?
48	Corey Quackenbush	Uncovering the genes driving sex determination in <i>Kryptolebias marmoratus</i>
49	Dana Reuter	Morphological evolution of carnivoran milk teeth
50	Yannik Roell	The relationship of metabolic rate to shell morphology and environmental differences in endemic land snails of Galapagos
51	Megan Ruffley	Predictive Framework to Discover Cryptic Biodiversity using the Pacific Northwest Mesic Forest
52	Michael Saxton	Seasonal transcriptional changes in brown bears (<i>Ursus arctos</i>)
53	Tina Schroyer	Landscape Influences on Dispersal of Slender False Brome
54	Jaime Schwoch	Somatic Adaptation in <i>Mimulus guttatus</i>
55	Matthew Singer	Effects of habitat complexity in the rearing environment on adult behavior
56	Mark Smithson	Phenotypic variation, epigenetic variation, and local adaptation
57	Sean Stankowski	Geographic cline analysis as a tool for studying genome-wide variation: a case study of pollinator-mediated divergence in a monkeyflower
58	Katrina van Raay	A one-two punch: combining killing systems within a single cell by going "pro"
59	Kelley Williams	Evolving a Healthier Worm: Microfluidics, Pharyngeal Pumping, and Experimental Evolution in <i>C. elegans</i>
60	Gavin Woodruff	Dramatic evolution of body length due to post-embryonic changes in cell size in a newly discovered close relative of <i>C. elegans</i>

Acknowledgments

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Thanks also to Oxford University Press, Princeton University Press, Roberts & Co, Sinauer Associates, University of Chicago Press and Harvard University Press for their generous donations of books from their wonderful catalogues as prizes for distinguished student and postdoc presentations. These books will be on display during mixers and coffee breaks Friday and Saturday, and distributed as awards during the award ceremony Saturday night.

Thanks as well to all of the members of the organization committee who have made this meeting possible and to the excellent staff at Fort Worden State Park Conference Center.

Finally, many thanks to all of you for coming, and thanks in advance for making EVO-WIBO the special meeting that it is!



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