AGA 2014 Symposium Posters

Evolutionary responses

An investigation of adaptation in bottlenose dolphins exposed to harmful algal blooms using complementary genome-wide and candidate gene approaches
Kristina Cammen
Duke University, Durham NC

Successful mating of spatially-explicit demography and genetics in a new simulation modeling framework: Individual-based, spatial eco-evolutionary models at last
Jennifer Day
University of Washington, Seattle

Genomic regions under selection in a hybridized population of westslope cutthroat trout (Oncorhynchus clarkii lewisi)
Daniel Drinan
University of Washington, Seattle

How sensitive are they? A genome-wide scan of temperate and tropical stream invertebrates to test the climate variability hypothesis
Miranda Gray
Cornell University, Ithaca NY

Genes, meet geography: Demography and life history in coastal steelhead
Jeff Hard
NOAA Fisheries, Seattle

Single molecule sequencing of a human genome reveals novel structural variation that is highly variable in human populations
John Huddleston
University of Washington, Seattle

Genetics of a head-start program to guide conservation of an endangered Galápagos tortoise (Chelonoidis ephippium)
Evelyn Jensen
University of British Columbia, Okanagan Campus, Kelowna, BC, Canada

Evolution of age and length at maturation of Alaskan salmon under size-selective harvest
Neala Kendall
Washington Department of Fish and Wildlife, Olympia

Does evolutionary history with plant chemical defense bias responses to novel anthropogenic toxins? Preliminary data from butterflies
Megan Kobiela
University of Minnesota, Twin Cities
Morphological traits and heritability in Magellanic Penguins (*Spheniscus magellanicus*)
Laura Koehn
University of Washington, Seattle
Gynogenetic haploid and diplloid mapping reveals chiasma-interference and hidden islands of adaptive importance in a salmonid genome
Morten Limborg
University of Washington, Seattle

Conservation genomics of Central Valley, CA Chinook salmon: Restriction-site Associated DNA sequencing reveals new patterns in diversity
Mariah Meek
University of California, Davis

The genomics of adaptation and divergence in a wild sunflower
Brook T. Moyers
University of British Columbia, Vancouver, B.C., Canada

Genetic differentiation in populations of a Brazilian treefrog along a gradient of anthropogenic habitat modification
Renato C. Nali
Universidade Estadual Paulista, Rio Claro, Brazil

The genetic basis of age at maturity in hatchery and natural origin Chinook salmon (*Oncorhynchus tshawytscha*)
Krista Nichols
NOAA Fisheries, Seattle

Population connectivity predicts adaptive-linked genetic diversity of desert bighorn sheep (*Ovis canadensis nelsoni*)
Brandon Nickerson
Oregon State University, Corvallis

Disperse or adapt locally: a comparative study of altitudinal variation in seed size of alpine plants
Pawel Olejniczak
Polish Academy of Sciences, Krakow, Poland

A single genomic basis for rapid parallel evolution of life-history expression in steelhead/rainbow trout
Devon Pearse
NOAA Fisheries, Santa Cruz CA

Annotated genes and nonannotated genomes: cross-species use of Gene Ontology in ecology and evolution research
Craig Primmer
Genomic signatures of selection in a classic fisheries harvest experiment
Nina O. Therkildsen
Stanford University, Pacific Grove, CA

The search for climate adaptation: Neutral and adaptive genetic divergence in American pika populations along elevational transects
Matthew Waterhouse
University of British Columbia Okanagan Campus, Kelowna, BC, Canada

Positive selection and recombination in the MHC genes of mainland and island killifish
Margot White
San Francisco State University, San Francisco CA

Plasticity

Phenotypic plasticity of successful and unsuccessful invasive lineages of Potamopyrgus antipodarum.
Jonathan Finger
Washington State University, Pullman

Identifying the potential for early assortative mating between two phenotypic morphs of Giant Kelp (Macrocystis spp) down its environmental gradient along the Central California coastline
Heidi Hargarten
University of Wisconsin, Milwaukee

Plastic responses to social cues in variable environments
Sarah Jaumann
University of Minnesota, Twin Cities

Minijacks: Alteration of Chinook salmon life history in Columbia River hatchery programs
Don Larsen
NOAA Fisheries, Seattle

Experience-driven phenotypic plasticity: Larval sensory experience modulates female oviposition preference in a generalist moth
Patrick Lhomme
Swedish University of Agricultural Sciences, Alnarp, Sweden

A diffuse coalition of the unwilling: group size effects on social structure in yellow-bellied marmots (Marmota flaviventris)
Adriana Maldonado-Chaparro  
University of California, Los Angeles

Mechanisms by which phenotypic plasticity promotes and hinders ecological speciation  
Etsuko Nonaka  
Umea University, Sweden

The effects of different thermal and discharge regimes during egg incubation on larval lake sturgeon development and behavior  
Kim Scribner  
Michigan State University, East Lansing

**Interactions of evolution and plasticity**

Thermoregulatory behavior limits local adaptation of thermal niches and confers sensitivity to climate change  
Lauren Buckley  
University of Washington, Seattle

Phenotypic divergence and thermal plasticity in juvenile steelhead: Differences in growth, age-1 smoltification, morphology and behavior between two populations  
Katy Doctor  
NOAA Fisheries, Seattle

Adaptive responses and invasion: the role of plasticity and evolution in snail shell morphology  
Mark Dybdahl  
Washington State University, Pullman

Human-mediated life history evolution in Snake River fall Chinook salmon?  
Anna Elz  
NOAA Fisheries, Seattle

Costs and constraints in the evolution of phenotypic plasticity in a multi-cellular yeast.  
Noah Gettle  
University of Minnesota, Twin Cities

Different norms of reaction in two populations of the Least Killifish, *Heterandria formosa*  
Alex Landy  
Florida State University, Tallahassee

Molecular basis of protogynous sex change in fish  
Hui Liu  
University of Otago, Dunedin, New Zealand
Local adaptation is more common than phenotypic plasticity in plants: a synthesis
Kattia Palacio-Lopez
University of Vermont, Burlington

Rapid evolution of phenotypic plasticity and shifting thresholds of genetic assimilation in the nematode *Caenorhabditis remanei*
Kristin Sikkink
University of Oregon, Eugene

Does evolution in the invasive range shape the reaction norm? Tests in a worldwide invader
Jennifer Madrid Thorson
Washington State University, Pullman

Role of cellular plasticity in the origin of multicellularity: a theoretical approach
Emilio Mora Van Cauwelaert
Universidad Nacional Autónoma de México, Mexico

**Epigenetics**

Transgenerational epigenetic inheritance of a defensive trait in yellow monkeyflower
Kayla Akkerman
Central Washington University, Ellensburg

Epigenetic control and genomic plasticity in marine bivalves
Mackenzie Gavery
University of Washington, Seattle

Life-history responses and underlying mechanisms to nutritional stress during development
Marjo Saastamoinen
University of Helsinki, Finland

Do longer exposures to high temperature lead to more pronounced transgenerational effects?
Santiago Salinas
University of California, Santa Cruz

**Miscellaneous**

Development of molecular markers in *Mithrax spinosissimus* Lamarck 1818 (Crustacea: Decapoda: Mithracidae) from the Caribbean Sea and their utility in population genetics, phylogeography and ecotoxicology studies
Julio Hurtado
Universidad Nacional de Colombia, Medellín, Colombia