

## 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 diploid 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

University of Turku, Finland

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