

Zebrafish Husbandry Workshop • Aquaculture 2020 • Honolulu, Hawai'i



Sponsored by Aquaneering



Monday, February 10th

Fish Diseases Session– Coordinated by Dr. Michael Kent/Oregon State University

- 8:30 – 8:50 Veterinary Evaluation and Management of Common Zebrafish (*Danio rerio*) Diseases as It Relates to Your Colony*
Christine Lieggi/MSK/WCM/HSS
- 8:50 – 9:10 Mycobacteriosis in Zebrafish Facilities - Strategies for Diagnostic Testing and Interpretation of Results*
Justin Sanders/Oregon State and Katy Murray/University Oregon/ZIRC
- 9:10 – 9:30 In Sickness and In Health: Management Challenges of an Infectious Diseases Lab*
Colleen Al-Samarrie/Oregon State University
- 9:30 – 9:50 Utilizing Droplet Digital : the Secret Weapon to Address Microsporidian Infections in Laboratory Zebrafish*
Corbin Jaid Schuster
- 9:50 – 10:10 A Study of Commercial Zebrafish Suppliers for Comparative Research Studies: Updates*
Sean Spagnoli/Oregon State University
- 10:10 – 10:30 Pseudocapillaria Tomentosa As A Strong Promoter of Intestinal Neoplasms in Laboratory Zebrafish*
Michael Kent/Oregon State
- 10:30 – 11:00 **Break**
- 11:00 – 12:30 ZHA Annual Meeting
ZHA Update and Stewardship Award
Rory Francis/ZHA President
ZIRC Update
Katy Murray/ZIRC
WAVMA RACE Veterinary CE
George Sanders/University of Washington
- 12:30 – 1:30 **Lunch**
- 1:30 – 1:40 Introduction
Mark Francis/Aquaneering

Attendees qualify for 10 CE Credits through AALAS. Please sign in on the attendance sheet.

Talks marked with an * asterisk also qualify for WAVMA / Race CE.

ZHA Session – Coordinated by ZHA

- 1:40 – 2:00 Fish Weight: Result or Variable?*
Maurine Hobbs/University of Utah
- 2:00 – 2:20 Genotyping Methods and the 3 Rs*
Claire Allen/Sheffield University
- 2:20 – 2:40 Zebrafish Colony Treatment for Pseudocapillaria Tomentosa Using Fenbendazole Gut-Loaded Artemia Nauplii*
Jim Burris/Duke University
- 2:40 – 3:00 Dymorphology and Locomotor Activity Assessment in Larval Zebrafish (*Danio rerio*)*
Joan Hedge/US EPA
- 3:00 – 3:20 Managing a Multi-User Zebrafish Facility: Collaborations and Compromises*
Christine Archer/University of Colorado AMC
- 3:20 – 3:40 Developing Strategies for Super-Mendelian Inheritance in Zebrafish and Implications for Husbandry Practices*
Tami V. Sanchez/UCSD
- 3:40 – 4:00 Emerging and Increasingly Complex Research Endeavors Conducted with Zebrafish (*Danio rerio*) and the Need for Veterinary Care and Oversight*
George Sanders/University of Washington
- 4:15 Meet at Pickup Location for Aquaneering Cocktail Cruise
- 5:15 – 7:15 Aquaneering Cocktail Cruise

Invited Speaker

Tuesday, February 11th

- 8:30 – 8:55 Management Systems and Recordkeeping
ZHA-Coordinated Basic Husbandry Unit/Stephen Canter/ZHA
- 8:55 – 9:20 Breeding and Colony Management
ZHA-Coordinated Basic Husbandry Unit/Claire Allen/Sheffield University
- 9:20 – 9:40 The Timing of First Feeding and Prey Density Impacts Survival in Larval Zebrafish-Rotifer Polycultures*
Amy Kolb/Boston Children's Hospital
- 9:40 – 10:00 Viability of Intact, Pre-Killed Rotifers As an Alternative First Feed for Zebrafish Fry*
Andrew Wegerski/NIH
- 10:00 – 10:30 Break
- 10:30 – 10:50 Customized Feeding Practices in an Academic Zebrafish Core
Peggy Hubley/Penn State
- 10:50 – 11:20 Diet and Feeding Regimens*
ZHA-Coordinated Basic Husbandry Unit/Maurine Hobbs/University of Utah
- 11:20 – 11:40 Breeding in Boxes, is it Ethical?*
Paul Barwood/University College London
- 11:40 – 12:00 The Effects of Population Density and Environmental Complexity on Aggressive Behavior of Zebrafish*
Ted Plemmons/NIH
- 12:00 – 12:30 Behavior and Welfare Indicators*
ZHA-Coordinated Basic Husbandry Unit/Kathy Snell/University of Oregon
- 12:30 – 1:30 **Lunch**

General Workshop Session – Coordinated by Aquaneering

Keynote Speaker

- 1:30 – 2:20 **Using Technology for Conservation: Zebrafish Embryos to Coral Larvae***
Dr. Mary Hagedorn/Smithsonian Institute/Hawaii Institute of Marine Biology

Contest Winners

- 2:20 – 2:40 Zebrafish Husbandry in a Small Liberal Arts College
Contest Winner Hyuna Lee/Biola University
- 2:40 – 3:00 Zebrafish Show Stable and Ranked Preferences for Different Environmental Enrichments*
Contest Winner J. Michelle Lavery/University of Guelph
- 3:00 – 3:30 **Break**
- 3:30 – 3:50 Zebrafish Aquaponics - A Preliminary Assessment of Benefits and Risks of Growing SPF Micro-Greens in a Research Zebrafish Recirculating Rack
Jeff Wyatt/University of Rochester
- 3:50 – 4:10 Pandas and Python on Jupyter? Data Collection Alternatives for Reliable Research Results
William James/University of Utah
- 4:10 – 4:30 To Standardise or Not to Standardize – Achievable Reality or Impossible Dream?
Carole Wilson/University College London
- 4:30 – 5:00 Intrinsic and Extrinsic Factors that Affect the Zebrafish (*Danio rerio*) Model and How to Recognize and Consider Potential Impacts*
Christine Lieggi/MSK/WCM/HSS and George Sanders/University of Washington
- 5:00 – 6:30 **Town Hall Meeting - Sponsored by Aquaneering**

