

ZEBRAFISH HUSBANDRY WORKSHOP • Aquaculture 2020 • Honolulu

Sponsored by AQUANEERING







Monday February 10th

Attendees qualify for 10 CE Credits through AALAS



This program has been submitted (but is not yet approved) for 6.25 hours of continuing education credit in jurisdictions which recognize RACE approval.

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/WCMC
-  8:50 – 9:10 **Mycobacteriosis in zebrafish facilities - strategies for diagnostic testing and interpretation of results**
Justin Sanders/Oregon State and Katy Murray/U Oregon/ZIRC
-  9:10 – 9:30 **In Sickness & in Health: Management Challenges of an Infectious Diseases Lab**
Colleen Al-Samarrie
-  9:30 – 9:50 **Utilizing digital droplet: the secret weapon to address microsporidian infections in laboratory Zebrafish**
Corbin Jaid Schuster
-  9:50 – 10:10 **A Study of Commercial Zebrafish Suppliers to 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 – 12:00 <ZHA ANNUAL MEETING>


12:30 – 1:30 **Lunch**

- 2:00 – 2:40 **INTRODUCTION** *Mark Francis/Aquaneering*
ZHA UPDATE & Stewardship Award *Rory Francis/ZHA President*
ZIRC UPDATE *Katy Murray/ZIRC*
ZEBRAFISH HUSBANDRY TRAINING UPDATE *Susan Farmer/U Alabama Birmingham*
WAVMA RACE Veterinary CE *George Sanders/U Washington*



ZHA SESSION – Coordinated by ZHA

-  2:40 – 3:00 **Fish Weight: Result or Variable?**
Maurine Hobbs/U Utah
-  3:00 – 3:20 **Genotyping Methods and the 3 Rs**
Claire Allen/Sheffield University
-  3:20 – 3:40 **Zebrafish Colony Treatment for *Pseudocapillaria tomentosa* Using Fenbendazole Gut-loaded *Artemia Nauplii***
Jim Burris/Duke University
-  3:40 – 4:00 **Dysmorphology and Locomotor Activity Assessment in Larval Zebrafish (*Danio rerio*)**
Joan Hedge/US EPA
-  4:00 – 4:20 **Managing a Multi-User Zebrafish Facility: Collaborations and Compromises**
Christine Archer/U Ottawa
-  4:20 – 4:40 **Developing Strategies for Super-Mendelian Inheritance in Zebrafish and Implications for Husbandry Practices**
Tami V. Sanchez/UCSD


INVITED SPEAKER

-  4:40 – 5:00 **Emerging and increasingly complex research endeavors conducted with zebrafish (*Danio rerio*) and the need for veterinary care and oversight.**
George Sanders/U Washington

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- 8:30 – 8:55 **Management Systems and Recordkeeping**
ZHA-COORDINATED BASIC HUSBANDRY UNIT/Stephen Canter
- 8:55 – 9:20 **Breeding and Colony Management**
ZHA-COORDINATED BASIC HUSBANDRY UNIT/Claire Allen
-  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 – 11:00 **Diet and Feeding Regimens**
ZHA-COORDINATED BASIC HUSBANDRY UNIT/Maurine Hobbs

 11:00 – 11:20 **Breeding in Boxes: Is it Ethical?**
Paul Barwood/U College London

 11:20 – 11:40 **Effects of Population Density & Environmental Complexity on Aggressive Behavior of Zebrafish**
Ted Plemmons/NIH

 11:40 – 12:10 **Behaviour and Welfare Indicators**
ZHA-COORDINATED BASIC HUSBANDRY UNIT/Kathy Snell

INVITED SPEAKER

 12:10 – 12:30 **Zebrafish Aquaponics-A Preliminary Assessment of Benefits & Risks of Growing SPF Micro-greens in a Research Zebrafish Recirculating Rack**
Jeff Wyatt/University of Rochester

12:30 – 1:30 **LUNCH**


GENERAL WORKSHOP SESSION – Coordinated by Aquaneering

KEYNOTE SPEAKER

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

CONTEST WINNERS


2:30 – 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 **Pandas and Python on Juypiter? Data Collection Alternatives for Reliable Research Results**
William James/University of Utah

3:50 – 4:10 **To Standardise or Not To Standardize – Achievable Reality or Impossible Dream?**
Carole Wilson/University College of London

 4:10 – 4:40 **Intrinsic and extrinsic factors that affect the zebrafish (danio rerio) model and how to recognize and consider potential impacts**
Christine Lieggi/WCMC and George Sanders/U Washington

5:00 – 6:30 **TOWN HALL MEETING –**

The Town Hall Meeting is sponsored by Aquaneering.

