

Zebrafish Husbandry Workshop - Aquaculture 2022

San Diego, California - Town and Country Resort & Conference Center

Proudly sponsored by Aquaneering

Tuesday - March 1

Fish Diseases Session - Coordinated by Dr. Michael Kent/Oregon State University (In-Person and Online)

- 8:30—8:50 PCR Testing for Pseudoloma: Tank Water and Fish
Corbin Schuster/Oregon State U
- 8:50—9:10 Specific Pathogen Free – A Review of Strategies in Agriculture, Aquaculture, and Laboratory Mammals and How They Inform New Recommendations for Laboratory Zebrafish
Katy Murray/ZIRC
- 9:10—9:30 Mycobacteria in zebrafish: overview and recent findings with line susceptibility
Chris Whipps/SUNY-ESF

Basic Husbandry Session (In-Person and Online)

- 9:30—10:30 Surface Disinfection of Zebrafish Embryos
George Sanders/U Washington
- Dissolved Ions in Zebrafish Culture Systems: The Importance and Management of Alkalinity, Total Hardness, and Conductivity
Hugh Hammer/U Pitt
- Methylene Blue and Developing Zebrafish – Effects on Mortality, Morphology, and Behavior
Joan Hedge/US EPA

Break

10:30—11:00

ZHA Annual Meeting

11:00—12:00 Stewardship Award

Lunch

12:30—1:30

General Session

- 2:00—2:30 Introduction
Mark Francis/Aquaneering
- ZIRC Update
Katy Murray/Oregon State U
- Zebrafish Husbandry Training Update
Ryan Centini/U Alabama Birmingham
- RACE Veterinary CE
George Sanders/U Washington
- 2:30—2:50 Advanced Technologies for Preservation of Aquatic Embryos and Larvae: A New Paradigm in Conservation and Aquaculture Biotechnologies
Kanav Khosla/U Minnesota Twin Cities
- 2:50—3:10 Using Analgesia for Fin Clipping with a Recirculating System
Mollie Millington
- 3:10—3:30 Building the Zebrafish Healthcare Team for Individual and Colony Health Management
Lauren Habernicht/University of Colorado Denver Anschutz

Break

3:30—3:45

General Session

- 3:45—4:05 TBA
TBA
- 4:05—4:25 Feeding Rate and Protein Quality Differentially Affect Growth and Feeding Efficiency Response Variables of Juvenile Zebrafish *Danio rerio*
Shaley Valentine/Southern Illinois U Carbondale
- 4:25—4:45 Robotic Platform for Automated Microinjection of Zebrafish Embryos
Amey S. Joshi/U Minnesota Twin Cities

Wednesday - March 2

Basic Husbandry Session (In-person and Online)

- 8:30—9:30 The Art of Breeding
Christine Archer/U Colorado
- Background Genetics and Effects on Husbandry
Marcus Crim/IDEXX
- Successful Rotifer Culturing: From the Bucket to the Belly
Josh Barber/Columbia U

Fish Diseases Session - Coordinated by Dr. Michael Kent/Oregon State University (In-Person and Online)

- 9:30—9:50 Effects of Diet on Growth and Microbiome
Michael Sieler/Oregon State U
- 9:50—10:10 Scoring Zebrafish Health by Condition Parameters
Tannia Clark/NIH
- 10:10—10:30 Some Unusual Disease Discoveries with Histopathology
Michael Kent/Oregon State U

Break

10:30—11:00

General Session

- 11:00—11:20 Long-Term Imaging of Living Adult Zebrafish
Dan Castronova
- 11:20—11:40 Fin Clips for Genotyping
Megan Matsutani/USC
- 11:40—12:00 Comparison of Gynogen Survival, Growth, and Sex Ratio in Wild and Domesticated “Casper” Strain of Zebrafish
Konrad Dabrowski/Ohio State U
- 12:00—12:30 Sex in Zebrafish: Deciphering (Epi)genomic Mechanisms
Laia Ribas/ICM/CSIC

Lunch

12:30—1:30

General Session

- 1:30—2:30 A Tale of Two Worlds: Behavior of Wild and Domesticated Zebrafish in Response to Habitat Alteration
Piyumika S. Suriyampola/Arizona State University
- 2:30—2:50 Open Hardware to Support Biomedical Research with Aquatic Models
Dr. Yue Liu/LSU Agricultural Center
- 2:50—3:10 Database Review
Bobbi Baur/Aquaneering
- 3:10—3:30 A Gene Catalog of the Zebrafish (*Danio rerio*) Gut Microbiome Clarifies the Effects of Husbandry Practice and Strain on Gut Microbiome Operation and Translational Potential
Christopher Gaulke/U Illinois Urbana Champagne

Break

3:30—4:00

General Session

- 4:00—5:00 Education and Careers Mini Session
John Ewart/WAS
Chris Green/WAS
Beth Hawkins/St. Mary's

Town Hall Meeting

- 5:00—6:30 Town Hall Meeting
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