

2023 Southern California

ZEBRAFISH

Meeting at

UC Irvine

Friday, December 1, 2023

Interdisciplinary Science and Engineering Building,
Room 1010
University of California, Irvine

➤ Talk Presentations
➤ Poster Session
➤ Social Networking

Hosted by UCI Zebrafish group: Thomas Schilling, Dae Seok Eom, Michael Parsons and Travis Wiles

NSF-Simons Center for
Multiscale Cell Fate Research
UC Irvine



2023 Southern California Zebrafish Meeting

11:00am – 11:10am Welcome Remarks
Thomas Schilling

SESSION 1 – Session Chair: Dae Seok Eom

11:10am – 11:30am Neurodevelopment of Collective Behavior in *Danio rerio* Cerebrum
Matthew Lovett-Barron, UC San Diego

11:30am – 11:50am Pollutant Induced Calcium Signaling Disruption Across Biological Endpoints
Erika Holland, CSU Long Beach

11:50am – 12:10pm Interleukin-17 Regulates Epidermal Remodeling via Keratinocyte Cytokines
Yi Wang, UC Irvine

12:10pm – 12:30pm Understanding Bacterial Neuroinvasion in a Zebrafish Model of Tuberculosis Meningitis
Megan Hayes, UC San Diego

12:30pm – 02:00pm Lunch and Poster Session

SESSION 2 – Session Chair: Travis Wiles

02:05pm – 02:25pm Life, Death, & Symbiosis: Exploring the Nested Life Cycles of Viruses and Bacteria in the Gut
Travis Wiles, UC Irvine

02:25pm – 02:45pm Adm-ELK3 Signaling Regulates Cardiac Lymphatic Vessel Formation in Zebrafish Heart Development and Regeneration
Xidi Feng, USC, Children's Hospital Los Angeles

- 02:45pm – 03:05pm Tendon Heterogeneity in the Zebrafish Embryo: Looking to the Eye for Differences in Tissue Specific Attachments
Cameron Miller, UC Irvine
- 03:05pm – 03:25pm Dissecting the Requirement of *atoh1a* Enhancers During Zebrafish Inner Ear Hair Cell Development and Regeneration
Tuo Shi, USC
- 03:25pm – 03:45pm Patterned Distribution of Hyaluronic Acid in the Cardiac Atrioventricular Canal Is Regulated by *Smarcc1a*
Ivy Fernandes, UC San Diego
- 03:45pm – 04:15pm Coffee Break and Poster Session

SESSION 3 – Session Chair: Michael Parsons

- 04:20pm – 04:40pm Resolving Mechanisms of Growth Control at Cranial Sutures
D'Juan Farmer, UCLA
- 04:40pm – 05:00pm Regulatory Networks Involved in Meninges Development
Ayyappa Raja Desingu Rajan, CalTech
- 05:00pm – 05:20pm Integrative Single-Cell Profiling, Lineage Barcoding, and Enhancer Testing Provides a Life History of Cranial Neural Crest Cells
Kuo-Chang Ted Tseng, USC
- 05:20pm – 05:40pm Visualizing Host-Pathogen Interactions in a Zebrafish Model of Group B Streptococcus Meningitis
Sumedha Ravishankar, UC San Diego
- 05:40pm – 06:00pm The Extrahepatic Duct as a Novel Source of Liver Stem Cells
Sophie Hao, Sanford Burnham Prebys Medical Discovery Institute
- 06:00pm – 06:10pm Adjourn
Thomas Schilling
- 06:10pm – 07:10pm Reception and Social Networking

POSTER PRESENTATION

Retinoic Acid Promotes Cartilage Regeneration in Zebrafish - [Claire Arata, USC](#)

Bacterial Transmission Dynamics in a Zebrafish Model - [Maria Banuelos, UC Irvine](#)

Investigating the Role of Lgrs in Mouse and Zebrafish Jaw Connective Tissue Stem Cells - [Arshia Bhojwani, USC](#)

Elucidating the Role of Rhomboid Proteases in a Zebrafish Wound Healing Model - [Saroj Gourkanti, UC San Diego](#)

Hand2 Plays at Least Two Distinct Roles in Promoting Cardiomyocyte Production - [Deepam Gupta, UC San Diego](#)

The Extrahepatic Duct as a Novel Source of Liver Stem Cells - [Sophie Hao, Sanford Burnham Prebys](#)

Understanding Bacterial Neuroinvasion in a Zebrafish Model of Tuberculosis Meningitis - [Megan Hayes, UC San Diego](#)

Organophosphate Ester-Induced Pericardial Edema in Embryonic Zebrafish - [John Hoang, UC Riverside](#)

Role of Pitx Genes in Craniofacial Development - [Muniza Junaid, USC](#)

Swimming Motility of a Gut Bacterial Symbiont Induces System-Wide Immune Signaling - [Courtney Knitter, UC Irvine](#)

Twist1 Genes Play Overlapping Roles in Promoting Forelimb Outgrowth in Zebrafish - [Abby Lee, UC San Diego](#)

Cartilage Regeneration at Facial Joints in Zebrafish - [Oluchi Ofoegbu, USC](#)

Characterizing Whole-Brain Neuronal Seizures in Live Zebrafish with Fourier Light Field Microscopy - [Lauro Sebastian Ojeda, USC](#)

Persistent Stimulus-Evoked Neural Activity and Behavior - [Grace Padilla, UC San Diego](#)

Drivers of Vessel Progenitor Fate Define Intermediate Mesoderm Dimensions by Inhibiting Kidney Progenitor Specification - [Elliot Perens, UC San Diego](#)

Regulatory Networks Involved in Meninges Development - [Ayyappa Raja Desingu Rajan, Caltech](#)

Visualizing Host-Pathogen Interactions in a Zebrafish Model of Group B Streptococcus Meningitis - [Sumedha Ravishankar, UC San Diego](#)

BMP Signaling Promotes Cardiac Inflow Tract Formation - [Rhea-Comfort Robertson, UC San Diego](#)

Comparative Multiomics Reveals Ancient Gill Origin of Mammalian Outer Ear - [Mathi Thiruppathy, USC](#)

Integrative Single-Cell Profiling, Lineage Barcoding, and Enhancer Testing Provides a Life History of Cranial Neural Crest Cells - [Kuo-Chang Ted Tseng, USC](#)

Effects of TBBPA on DREAM-regulated Transcription in Adult Danio rerio - [Kameron Wong, CSU Long Beach](#)

Hosted by  **NSF-Simons Center for
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