



# Zebrafish Summer Institute

*Designing real-world applicable scientific inquiries for any classroom*

**Who:** Life Science/Biology Teachers grades 6-12, who teach 25% or more ELLs and want to use zebrafish in their courses.

**Where:** University of Texas at Dallas, Department of Science and Mathematics Education, 800 W. Campbell Rd., Richardson, TX 75080

**When:** **Virtual Workshop: June 28 (9AM to 1PM)**

**Hands-on face-face workshop: June 30 (9AM to 3PM)**

**Apply at:** <https://forms.gle/SFYtEUKdAdUJj2Z39>

**Video:** For more information see the fish institute video <https://youtu.be/xp56uw1XFTI>

**Virtual workshop:** The virtual workshop will introduce participants to the relevance of zebrafish in biomedical sciences and the usage of zebrafish in teaching TEKS-aligned secondary science concepts. They will also participate in virtual TEKS-aligned zebrafish activities to explore topics such as organisms' growth and development, aquatic biology, environment toxicology, and genetics. Teaching strategies to encourage student engagement as well as a special focus on strategies for English Learners will be addressed throughout the workshop.

**Hands-on workshop:** will focus on providing training on basic husbandry, care and breeding methods of zebrafish. Teachers will use pet store supplies to conduct hands-on, TEKS-aligned, inquiries with zebrafish. *The ZSI team reserves the right to postpone the hands-on workshop if UT Dallas policies for in-person meetings are changed due to covid-19 situation.*

**Year-long support:** Mentoring and consultation will be provided through Microsoft Teams and email. Teachers will have access to the UTD zebrafish facility for fish inventory.

**Cost:** Cost to participants is \$75 for the virtual and hands-on workshops and year-long support.

**What:** Zebrafish are at the forefront of biomedical research, helping scientists understand complex diseases including cancer. These small, hardy fish found in local pet stores are also easy to raise and perfect for the classroom! They allow effective authentic science experiments and provide real-world connections to the life science/biology curriculum.

**Extras:** Each teacher that completes the program will be supported with fish stocks and classroom resources to execute zebrafish inquiries in their classrooms. In addition, teachers will receive CPE of 10 hours.

**Teacher commitment:** Participate in both virtual and hands-on workshop. Attend monthly virtual meetings that are focused to discuss the success and challenges met while executing zebrafish in the classroom. Create lessons and activities to share with peers. Participate in pre-and post-workshop assessments.

## ZSI Team:

**Vinita Hajeri, Ph.D. Assistant Professor of Instruction:** Biomedical scientist/educator actively using zebrafish to improve teacher practice and STEM proficiency of K-12 learners. Dr. Hajeri is the director of the zebrafish summer institute.

**Ms. Pamela Kirkland, M.Ed., Clinical Assistant Professor, UT Dallas:** Ms. Kirkland is actively involved in teaching pre-service teachers and providing teacher induction for the UTeach program at UT Dallas.

**Jennifer Burr, ED.D. Data Solutions Consultant, Region 10 Education Service Center:** Dr. Burr is an expert on effective teaching practices for English Language Learners and is working with English as a Second Language and Bilingual programs across the state.