Molecular Techniques for Environmental Health Sciences

- A practical introduction to a variety of molecular techniques, as applied to the study of life systems at the molecular level.

- Designed to offer novice students an opportunity to understand the fundamental principles of modern molecular techniques and actively participate in their application to specific research problems through a combination of theory and laboratory experiences.

- Specific techniques include sterile technique, culture methods, DNA & RNA isolation, PCR, real-time qPCR and analysis, SNP analysis, and bioinformatics.

- Prerequisites: none. Students are required to complete a series of pertinent safety training modules during Week 1 prior to working in the laboratory.

The course will include both in-class/laboratory and out-of-class /distance learning sessions.