

2023 MOLECULAR METHODS WEBINAR SERIES

What is eDNA? How are molecular methods being used to generate biological data useful for bioassessment, public health, and environmental monitoring applications? Join us for a special webinar series focused on answering these questions and more.

This webinar series is being sponsored by the California Water Quality Monitoring Council's Molecular Methods Workgroup and the California Water Quality Monitoring Collaboration Network. Webinar recordings and materials will be made available on the Network's website. There is no registration. Participation will be on a first come basis. However, we do not anticipate exceeding our hosting ability.

Webinars will be held quasi-monthly beginning in February.

- **eDNA 101**
 - Broad overview of methods and applications.
- **eDNA for bioassessment**
 - Benthic macroinvertebrates, algae.
 - Fisheries stock assessment.
- **eDNA for HABS**
 - Freshwater and marine.
- **eDNA for species surveillance**
 - Invasive/endangered species.
- **eDNA for human health**
 - Source tracking metabarcoding.
 - qPCR/ddPCR approaches for beach water quality monitoring.
- **Data analysis/bioinformatics**
 - Including data visualization.



Webinar Topic: eDNA 101 (Webinar Series Kickoff)

When: Wednesday February 8, 2023 11:30am- 12:30pm

Presenter: Dr. Susanna Theroux - Southern California Coastal Water Research Project

This webinar will provide a broad overview of methods and applications.

Environmental DNA (eDNA) is DNA that can be found in the environment, including water, soil, or air. Environmental DNA can include both organismal DNA from microscopic organisms such as protists and bacteria, and extra-organismal DNA from larger organisms that is shed via skin, mucous, feces, etc. Once shed, eDNA can persist in the environment hours to weeks, largely depending on state (intracellular, extracellular, particle-bound) and environmental processes.

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