

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 and began in February. Topics will include:

- **eDNA 101 (February 8, 2023)**
 - Broad overview of methods and applications
 - [Video](#)
- **eDNA for bioassessment (March 15, 2023)**
 - Benthic macroinvertebrates, algae
 - Fisheries stock assessment
 - [Video](#)
- **eDNA for HABs (June 14th, 2023 @ 11:30am PT)**
 - 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 for harmful algal blooms (HABs)

When: Wednesday June 14, 2023, 11:30am- 12:30pm PT

Presenters: Dr. Susanna Theroux & Dr. Jayme Smith, Southern California Coastal Water Research Project

This webinar will focus on the use of environmental DNA (eDNA) in harmful algal bloom monitoring and research. We will discuss recent advances to apply molecular methods, including quantitative PCR (qPCR), digital PCR (dPCR) and DNA metabarcode sequencing, to detect and identify harmful algal species and their toxin genes. We will discuss the application

of these molecular methods from headwaters to the ocean, including in lakes, estuaries, and marine environments.

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Relevant links

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