

# 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 are available on the [Network's website](#). There is no registration needed. Participation will be on a first come basis. However, we do not anticipate exceeding our hosting ability.

Topics include:

- **eDNA 101 (February 8, 2023)**
  - Broad overview of methods and applications
    - [Agenda and Topic Page](#)
    - [Presentation material](#)
    - [Presentation recording](#)
- **eDNA for bioassessment (March 15, 2023)**
  - Benthic macroinvertebrates, algae
  - Fisheries stock assessment
    - [Agenda and Topic Page](#)
    - [Presentation recording](#)
- **eDNA for HABs (June 14<sup>th</sup>, 2023)**
  - Freshwater and marine
    - [Agenda and Topic Page](#)
    - [Presentation recording](#)
- **eDNA for species surveillance (February 22, 2024- 11:30am PT)**
  - Invasive/endangered species
- **eDNA for human health (TBA)**
  - Source tracking metabarcoding
  - qPCR/ddPCR approaches for beach water quality monitoring.
- **Data analysis/bioinformatics (TBA)**
  - Including data visualization



## **Webinar Topic: eDNA for Species Surveillance**

**When: February 22, 2024 - 11:30am- 12:30pm**

### **Presenters:**

- **Dr. Susanna Theroux, Southern California Coastal Water Research Project (SCCWRP)**
- **Dr. Sarah Brown, California Department of Water Resources (DWR)**

**This webinar will focus on the use of environmental DNA (eDNA) in monitoring for species surveillance.** We will discuss recent advances to apply molecular methods, including quantitative PCR (qPCR) and CRISPR based assays, to detect invasive and endangered species. We will highlight work by the Department of Water Resources and the University of California at Davis to develop novel tools to survey for protected species in California waterways.

### **How to Participate/Microsoft Teams meeting:**

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### **Relevant links**

[https://mywaterquality.ca.gov/monitoring\\_council/mmw.html](https://mywaterquality.ca.gov/monitoring_council/mmw.html)

[https://mywaterquality.ca.gov/monitoring\\_council/collaboration\\_network/](https://mywaterquality.ca.gov/monitoring_council/collaboration_network/)

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