

MISC Environmental DNA Panel Discussion
Montana Fish, Wildlife & Parks Region 2 Office
3201 Spurgin Rd, Missoula
September 14, 2023

Panel Speakers:

- Jon Amberg. USGS, Upper Midwest Environmental Sciences Center
- Gordon Luikart. University of Montana, Flathead Biological Station
- Taylor Wilcox. USFS, Rocky Mountain Research Station

Panel Objectives:

- Provide information on what eDNA and metabarcoding are and how they are used.
- Identify strengths and challenges of using molecular tools for AIS early detection.
- Identify gaps and needs where MISC AIS funding could potentially support the development of the science.

8:30 Introductions

9:00 eDNA, Metabarcoding and other molecular techniques: What they are and how they are used to detect invasive species? (Jon Amberg)

9:45 Gordon Luikart: Evaluating methods to improve qPCR sensitivity.

10:00 Taylor Wilcox: Using eDNA to support invasive species eradication and delineation.

10:15 Jon Amberg: Moss balls, method standardization and lessons learned.

10:30 Break

10:45 Panel Discussion and Questions

- eDNA Success Stories.
- Applying the Science to AIS Management.
- Council and Audience Questions.

Noon: Lunch

12:45 Questions and Continued Panel Discussion.

2:00 The Future of eDNA and AIS

2:30 Adjourn