



Future possibilities for eDNA research in Greek freshwater ecosystems

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Future possibilities: overview

Species

Locations

Methods



Future possibilities: Species

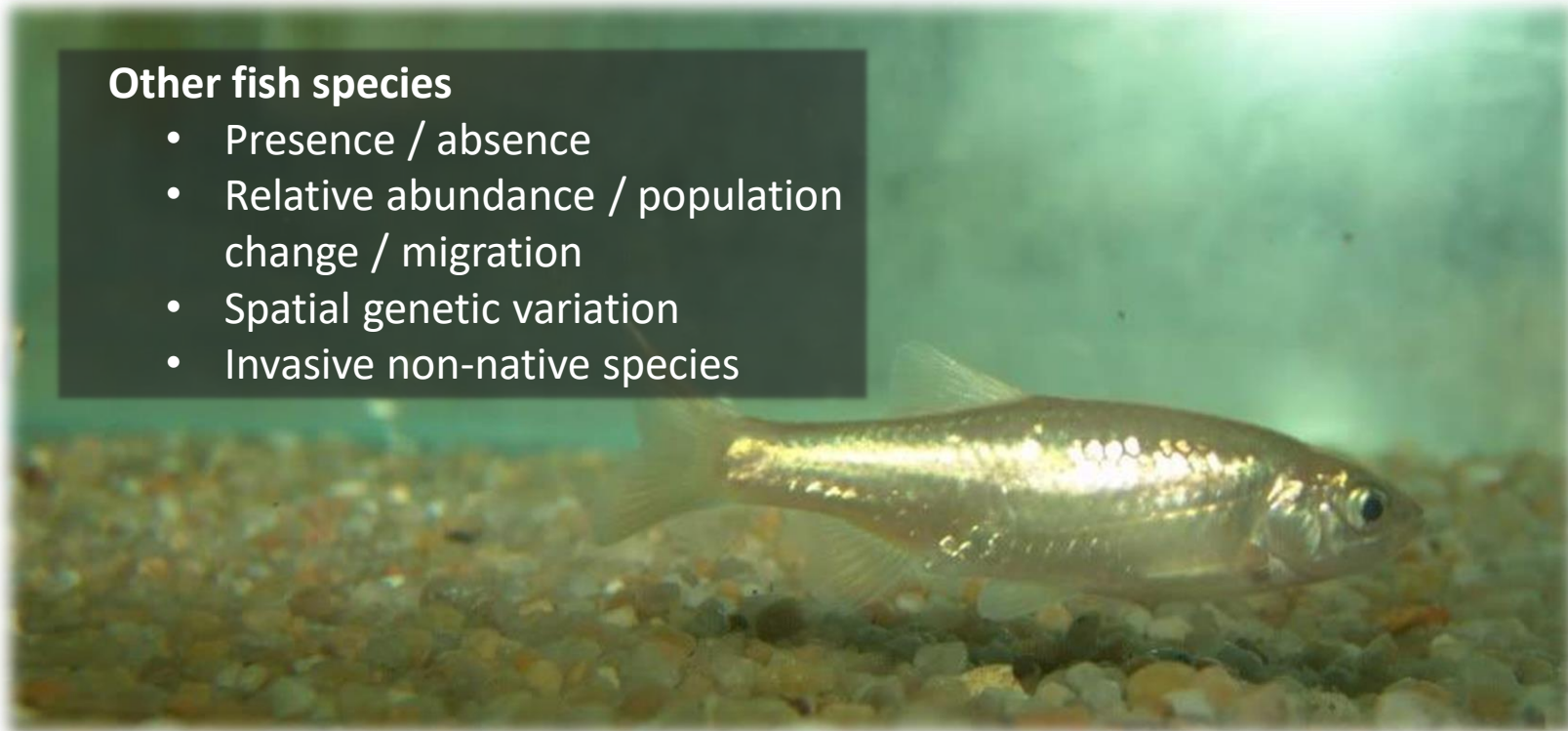
► Species

Locations

Methods

Other fish species

- Presence / absence
- Relative abundance / population change / migration
- Spatial genetic variation
- Invasive non-native species



Future possibilities: Species

► Species

Locations

Methods

Other freshwater species

- Amphibians
- Arthropods
- Molluscs
- Plants
- Semi-aquatic species
- Pathogens and parasites



Future possibilities: Locations

Species

► **Locations**

Methods

- **Inaccessible locations**
 - Subterranean lakes
 - Lake depths
- **Ecotones**
- **Rapid widescale monitoring**
 - Species distribution mapping
- **Habitat preferences**



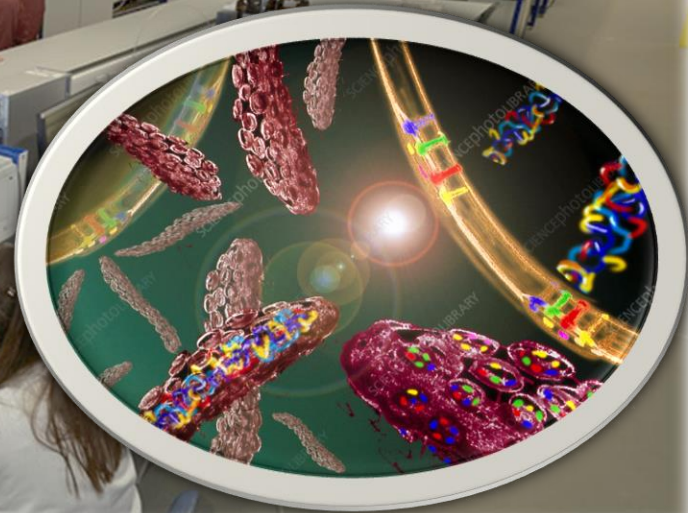
Future possibilities: Methods

Species

Locations

► **Methods**

- **Monitoring individuals / populations**
- **Ancient DNA**
 - Ancient species assemblages in lakes
 - Reconstructing wetland ecology
- **eRNA**
 - Population structure
 - Impact of environmental stressors



Thank you

- **UWE xDNA group: Abi Mackay, Laura Weldon (WWT), Angeliki Savvantoglou, Steph Sargeant, Buffy Smith, Joel Allainguillaume, David Fernandez, Paul Lintott, Sarah Meek, Tully Osmond**
- Join our group! Check out Partnership PhD opportunities @ UWE

