

Mini-Symposium – Recovering DNA from sedimentary archives

When October 4th, 2021
Where In-person (SLU Uppsala, MVM, Framtiden) and online (Zoom)
Registration <https://forms.gle/6ZhcFzH1AfBPGf9t6>
Organizers Eric Capo (SLU) & Kevin Nota (Upps. Univ)
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What This mini-symposium aims to present exciting new work and future prospects about research utilizing DNA preserved in environmental archives, called sedimentary ancient DNA. This tool can be used to reconstruct the past terrestrial and aquatic biodiversity. Among the main avenues, long-term vegetation history in lake catchment, distribution of macro and mega-fauna as well as the impacts of environmental changes on aquatic plankton have been revealed using the sedimentary DNA-based approach. Collectively, this research advances our knowledge about past ecosystem changes and the role of humans in such changes.



Program Schedule

Time AM (UTC+2)	Speakers	Title
9:00		Arrival of participants
9:30	Kevin Nota & Eric Capo	<i>Presentation of the symposium/ sedaDNA society</i>
9:45	Peter Heintzman (Keynote)	<i>SedaDNA: where are we and where are we going?</i>
10:00	Kevin Nota	<i>Capture barcoding genes from environmental samples</i>
10:10	Jordan Von Eggers	<i>Understanding aquatic biodiversity consequences of multiple stressors across the Western U.S</i>
10:20	Ines Barrenechea Angeles	<i>Continental inputs in the Bismarck Sea from last 350 ka retraced by sedaDNA</i>
10:30		Coffee Break
11:00	Mikkel Pedersen (Keynote)	<i>Fast ancient DNA damage estimator metaDMG</i>
11:15	Grayson Huston	<i>Exploring methods for the optimized extraction and amplification of river herring sedaDNA</i>
11:25	Ida-Maria Blåhed	<i>Plant DNA in varved sediments from two adjacent lakes - An ongoing study of occurrence and consistency</i>
11:35	Ioana Meleg	<i>aDNA history: Inferring spatio-temporal palaeodynamics from cave sediments</i>
11:45	Eric Capo	<i>Recovering sediment ancient metagenomes: failures and successes</i>
11:55		Conclusion