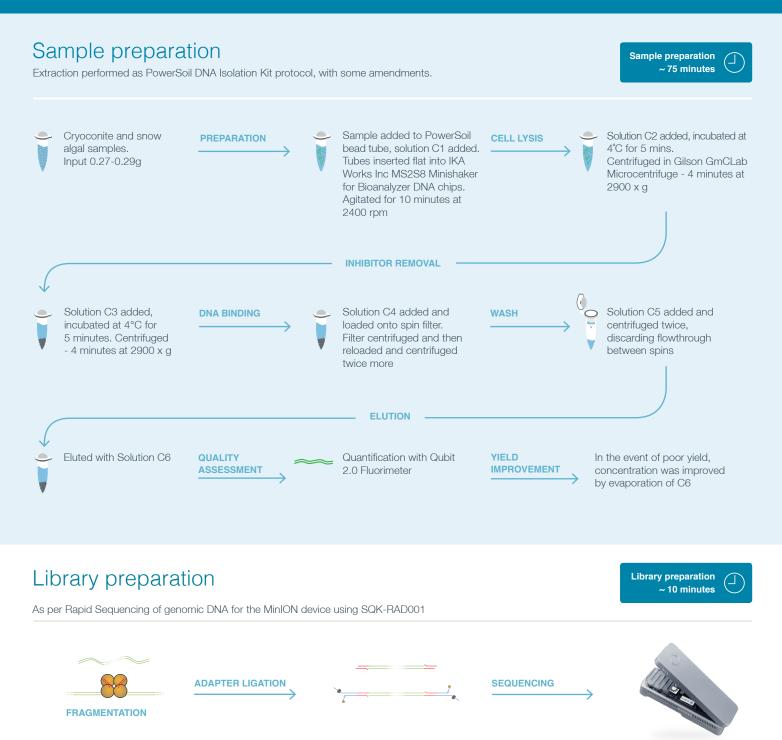
Extreme metagenomics using nanopore sequencing: a field report from Svalbard, 78° N.



Logistical arrangements in extreme environments present a considerable challenge to field investigations. Edwards *et. al* explored the feasibility of offline analyses of metagenome profiles in order to characterise the microbiota of a High Arctic glacier.

A highly portable field lab was successfully used to provide insights into microbial community composition using suboptimal datasets without access to cloud-based bioinformatics resources. This would ultimately allow more in-depth examination of these communities to better understand their role in sensing and amplifying environmental change impacts in the Artic.



200 ng high molecular weight DNA in 7.5 µl transposase fragmentation. PowerSoil routinely produces DNA fragments of 20-25 kb.

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Edwards *et. al*, 2016, Extreme metagenomics using nanopore sequencing: a field report from Svalbard, 78°N, BioRxiv, <u>https://doi.org/10.1101/073965</u>

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ANALYSIS

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