Functional ecology of polar microbial communities in a changing world

Cold terrestrial ecosystems play a key role in Earth's climate system. Melting glaciers and thawing of permafrost due to global warming not only promotes microbial carbon turnover with direct feedback on greenhouse gases but also has the potential to unlock unknown biodiversity and functional processes. This session will attract those interested in exploring how recent cutting edge genomic tools are being used to assess and resolve the role and resilience of microbial communities in polar and high-alpine ecosystems. This session invites microbiology and biogeochemistry experts who, through their unique understanding of the fast changing cryosphere and the factors that impact ecosystem and organism response, are attempting to predict how the system will respond to a warming world.

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