

## Programme PAM Copenhagen 2026 – Final and flexible :-)

The meeting is taking place each day at Emdrup A222 (Festsalen) in building 7210.

### Monday - Microbial diversity and biogeography in cryospheric environments

Time	Oral/Poster	Who	Title
8:30-9:00	Arrival	Everyone	
9:00-9:15	Introduction	Alexandre Anesio	Practicalities
		<b><i>Chairs</i></b>	<b><i>Arwyn Edwards and Léa Francomme</i></b>
<b>9:15-9:45</b>	<b>Keynote lecture 1</b>	<b>Rachel Mackelprang</b>	<b>Ancient carbon and modern microbes: Disentangling the drivers of carbon turnover and microbial community assembly during permafrost thaw</b>
9:45-10:00	Oral 1	Eric Collins	Near real time genomics for environmental monitoring in the Arctic marine environment
10:00-10:15	Oral 2	Gilda Varliero	Microorganisms and their mobile genetic elements in glacial meltwater: a dynamic system for gene exchange
10:15-10:30	Oral 3	Grégoire Michoud	Evolution of the Cryospheric Microbe <i>Polaromonas</i> Across Diverse Environments
<b>10:30-11:00</b>	<b>Coffee break</b>		
		<b><i>Chairs</i></b>	<b><i>Eric Collins and Gilda Varliero</i></b>
11:00-11:15	Oral 4	Arianna Crosta	Biogeographical patterns of bacterial communities in cryoconite holes
11:15-11:30	Oral 5	Arwyn Edwards	What goes down must come up: Community dynamics and biogeochemical significance of microbiota entrained within Arctic glaciers
11:30-11:45	Oral 6	Christina L. Davis	Annual changes in microbial communities' diversity and activity of White Glacier cryoconite

11:45-12:00	Oral 7	P�������� Black-burn-Desbiens	Bacterial assemblages in a High Arctic ice-dammed Lake vulnerable to warming
12:00-12:15	Oral 8	Fabiana Canini	Resolving Antarctic soil fungal, bacterial, and metazoan diversity using integrated short- and long-read metabarcoding
12:14-12:30	Oral 9	Grace Marsh	Soil microbial diversity, community assembly, and greenhouse gas fluxes across a Greenlandic glacial chronosequence
12:30-12:45	Oral 10	Riitta Nissinen	Something shared, something endemic - <i>Deschampsia antarctica</i> microbiomes from Antarctic and Patagonian locations
<b>12:45-14:00</b>	<b>Lunch break</b>		
		<b><i>Chairs</i></b>	<b><i>Riitta Nissien and Rachel Mackelprang</i></b>
14:00-14:15	Oral 11	Nea Tuomela	Changes in microbial community composition and functionality from degrading permafrost and peat to small ponds
14:15-14:30	Oral 12	Quincy Faber	Permafrost Thaw-Driven Disturbances Reshape Microbial Composition in Arctic Soils and Lakes
14:30-14:45	Oral 13	Shiv Mohan Singh	Microbial diversity and adaptation strategies in the Himalayas and their comparison with the Arctic
14:45-15:00	Oral 14	David Touchette	Drought, more than warming, reshapes glacier-fed stream biofilm community structure and phototrophic metabolism
15:00-15:15	Oral 15	Zhe Liu	Glacier-to-downstream transitions shape microbial community structure, function, and interactions along the continuum
15:15-15:30	Oral 16	Heike H. Zimmermann	Tracing climate-driven shifts in Arctic microbial eukaryotes over the past ~900,000 years using sedimentary ancient DNA

<b>15:30-16:00</b>	<b>Coffee break</b>		
		<b><i>Chairs</i></b>	<b><i>Pamela E. Rossel and Yongqin Liu</i></b>
<b>16:00-16:30</b>	<b>Keynote lecture 2</b>	<b>Timothy M. Vogel</b>	<b>A Fair-Weather View of Microbial Ecology in Cold Habitats</b>
16:30-16:45	Oral 17	James E. Lawrence	Identification of potential metabolic pathways in Antarctic Subglacial Sediment populations
16:45-17:00	Oral 18	Laureen Ahlers	Vegetation Cover Shapes Microbial Community Composition and Functional Potential in European Alpine Permafrost-Affected Soils
17:00-20:00	Posters and ice breaker		List below

#### **Posters for Monday:**

- **Adam Olekšák** - Effect of wildfire on soil microbial communities in Arctic tundra
- **Angelina Lo Giudice** - Assessing Fish and Environmental Microbiomes in the Teno River: A Case Study on *Thymallus Thymallus*
- **Archie Clarkson** - Microbial eukaryotes living in the ‘twilight zone’ of polar freshwater environments
- **Benoit Durieu** - Insights into Antarctic Subcluster 5.2 picocyanobacteria based on new high-quality genomes
- **Carmen Rizzo** - Metagenomic Insights into Microbial Communities of Arctic Palsas and Their Vulnerability to Warming
- **Igor S. Pessi** - The contribution of under-ice microbial activity for the winter greenhouse gas balance of the Baltic Sea
- **Jana Voříšková** - Response of bacterial and fungal communities to long-term climate manipulations in tundra soils
- **Katarzyna Kozak** - From cryosphere to industry: Antarctic bacteria as a reservoir of cold-active hydrolases and bioactive compounds
- **Kuldeep D. More** - Reconstructing Subsurface Microbial Community Dynamics Through Time in Marine Arctic Sediments
- **Lee J. Kerkhof** - Cryptic Variation in *Acidobacteriota* Communities in Finnish Forest Soils

- **Maria Papale** - Soil microbial communities associated with *Salix* spp. shrub encroachment across alpine habitats in the Italian Central Alps
- **Michela Gambino** - Biofilms colonising outdoor stone monuments: learning outcomes from a year of the Assistens Kirkegård project
- **Miha Glavina** - Biomineralization by psychrotolerant fungi from a high altitude Andean saline ecosystem
- C. Algora, **Gabriele Tosadori** et al. - Effect of warming on microbial decomposition of plant biomass in Arctic tundra soils using a stable isotope probing approach
- **Tatiana A. Vishnivetskaya** - Methane emitted from ground surface and borehole depths: Ny-Ålesund, Svalbard
- **Maria Christodoulou** - The public BCCM/ULC collection as a repository of polar and alpine cyanobacterial strains for research and innovation
- **Giorgia Cavallini** - Alpine Soil Microbial Resilience to Climate Change: Evidence from the MICROPLANTALP Ecotron Experiment

**Tuesday - Biogeochemical processes in cryospheric ecosystems: integrating microbiology and environmental chemistry**

Time	Oral/Poster	Who	Title
8:30-9:00	Arrival	Everyone	
		<b>Chairs</b>	<b>Beatriz Olivas and Klara Köhler</b>
9:00-9:15	Oral 19	Anna Karina Hernández-García	Linking microbial activity to methane production in coastal sediments from Greenland
9:30-9:45	Oral 20	Anastasiia Kosolapova	Chemical gradients at the local scale drive distinct microbial communities in Alpine seasonal snowpack
9:45-10:00	Oral 21	Anirban Majumder	Hidden Biochemistry of Winter Darkness: Metabolomic Profiling of Microbial Life beneath the snow cover
10:00-10:15	Oral 22	Tilly Woods	Modelling microbial population dynamics in an ice sheet's weathering crust
10:15-10:30	Oral 23	Ate H. Jaarsma	Exploring methane cycling in Arctic lakes under the influence of glacial dust deposition

<b>10:30-11:00</b>	<b>Coffee break</b>		
		<b><i>Chairs</i></b>	<b><i>Ate H. Jaarsma and Liane G. Benning</i></b>
11:00-11:15	Oral 24	Dhiraj Paul	Microbial Metabolic interaction: Cryoconite hole ecosystem of Antarctica
11:15-11:30	Oral 25	Ewa Poniecka	From Cryoconite to Sediment - Role of Cryoconite in Seeding Downstream Biofilms in Glacier-Fed Environments
11:30-11:45	Oral 26	Pamela E. Rossel	Disentangling the Role of Black Carbon and Algal-derived Organic Matter in Surface Albedo Reduction on the Greenland Ice Sheet
11:45-12:00	Oral 27	Lars G. van Dijk	From Degradation to Disturbance: Pesticide Impacts on Cryoconite Microbial Communities from an Alpine Glacier and the Greenland Ice Sheet
12:00-12:15	Oral 28	Carmen Del Franco	Assessing the membrane integrity, viability and metabolic activity of Antarctic cryptoendolithic communities exposed to Mars-like conditions using a polyphasic approach
12:15-12:30	Oral 29	Laura Molaes Moncayo	Atmospheric Trace Gas Oxidation in Glacier Surface Microbiomes
<b>12:30-14:00</b>	<b>Lunch break</b>		
		<b><i>Chairs</i></b>	<b><i>Ewa Poniecka and Annika Morische</i></b>
14:00-14:15	Oral 30	Klara Köhler	Water-laden subglacial sediment is a potential nutrient source for glacier-fed streams
14:15-14:30	Oral 31	Liane G. Benning	Does mineral dust play a more important role in albedo reduction and nutrient supply in the NW of the Greenland -Ice Sheet?
14:30-14:45	Oral 32	Marco Ajmar	Nutrient fluxes from a subarctic glacial river to the ocean

14:45-15:00	Oral 33	Mark Skidmore	Basal ice from the Greenland ice sheet: evaluating iron reduction capabilities
15:00-15:15	Oral 34	Kara Sampsell	Glacial rock flour hosts subglacial and proglacial microbial communities in the Mont Blanc Massif
15:15-15:30	Oral 35	Guillaume Lamarche-Gagnon	Greenland proglacial lakes as windows into subglacial methane production and carbon cycling
<b>15:30-16:00</b>	<b>Coffee break</b>		
<b>16:00-16:30</b>	<b>Keynote lecture 3</b>	<b>Martyn Tranter</b>	<b>Talking of chemistry.....: common communication breakdowns between microbiologists and geochemists</b>
16:30-16:45	Event	Alexandre Anesio	Glacial Biome Center
16:45-18:00	Posters		List Below

#### Posters for Tuesday:

- **Alanna M.C. Luiz** - Early stages of microbial ecological succession on Antarctic glacial retreating soils reveal climate change bioindicators
- **Chiara Mazioux** - Connectivity and dynamics of microbial communities in air, snow, and soil in the Arctic
- **Haohua He** - Impact of Freeze–Thaw Cycles on Microbial Mechanisms Underlying Soil Carbon Cycling in a Warming World
- **Harpreet Singh** - Seasonal variation of microbial activity and their stress response in the Arctic
- **Maria Labat Saint Vincent** - A contamination controlled Continuous Flow Analysis (CFA) workflow for low-biomass ice-core microbiology and a matched contaminant reference bank
- **S. Marshall Ledford** - Thaw-Induced VOC Cycling From Cryoconite and Proglacial Soil in the High Arctic
- **Mirjam Paasch** - Optimization and standardization of glacier ice algae cultivation
- **Natalija Pavlinjek** - Cold-adapted fungi from the Bolivian Altiplano: diversity and response to combined low-temperature and saline stress
- **Nathan M. Ernster** - Microbial Transport and Deposition on the Greenland Ice Sheet: A Time Series from Summit Station, Greenland
- **Paulina Cifuentes-Urbe** - Microbial diversity across Grey Glacier, Patagonia
- **Sibylle Lebert** - Bacterial Ice Nucleation as a survival strategy in glacial environments

- **Sofia Ribeiro** - Tracing phytoplankton and their toxins in a warming Arctic: the PHATE project
- **Sophia Mützel** - Tracing Micro- to Submicron Tire Wear and Microplastic Particles in Atmospheric Deposition in the Austrian Alps
- **Marie Harmel** - The Reproducible Amplicon Sequencing Pipeline for Antarctic Monitoring (RASPAM): a bioinformatic workflow developed by BCCM GEN-ERA
- **Fabiana Canini** - Microbial volatile compounds profiling sheds light on biotic interactions in rock and soil communities in hyper-arid Antarctic deserts
- **Valentina Savaglia** - Ecophysiological and Transcriptomic Response to Desiccation and Rewetting of *Nostoc* sp. from Antarctic Freshwater and Terrestrial Habitats

### Wednesday – Sightseeing, network opportunities and PAM dinner

#### DAY

Information coming during the conference

#### NIGHT

Between 18 and 19:00 arrival at RUST for Brazilian-themed dinner and party:

Guldbergsgade 8

2200 København N

PLEASE MAKE YOUR BEST TO COME WITHIN THIS SLOT TIME AS IT WILL BE VERY DIFFICULT TO GET IN BEFORE OR AFTER THIS SLOT

### Thursday - Mechanisms of microbial adaptation and survival in the cryosphere, microbial functionality and metabolism in extreme in sub-zero temperatures, Astrobiology

Time	Oral/Poster	Who	Title
8:30-9:00	Arrival	Everyone	
		<b>Chairs</b>	<b><i>Sofia Ribeiro and Helen K. Feord</i></b>

9:00-9:15	Oral 36	Anna Carratalà	Microbial Life at the Air-Ice-Water Interface in remote lakes of East and West Greenland
9:30-9:45	Oral 37	Lasse Z. Jensen	Seasonal Dynamics of Bioaerosols and Ice Nucleating Particles in the High Arctic Atmosphere
9:45-10:00	Oral 38	Christian D. F. Castenschiold	Marine and Atmospheric Biogenic Ice-Nucleating Particles in Coastal Western Greenland
10:00-10:15	Oral 39	Tina Šantl-Temkiv	Sea Ice as a Source of Biological Ice Nucleation Particles in the Arctic Atmosphere
10:15-10:30	Oral 40	Shashi Prabha Kumari	Linking microbial communities to atmospheric ice nucleating particles at a coastal site in West Greenland
<b>10:30-11:00</b>	<b>Coffee break</b>		
		<b><i>Chairs</i></b>	<b><i>Tina Šantl-Temkiv and Mark Skidmore</i></b>
11:00-11:15	Oral 41	Annika Morische	Coordinated Metabolic Responses Enable Glacier Surface Microbial Communities to Adapt to Abiotic Stress
11:15-11:30	Oral 42	Giorgia Cavallini	Genomic and Functional Characterization of Hydrocarbon Degradation Potential of an Antarctic Strain of <i>Rhodospiridiobolus odoratus</i>
11:30-11:45	Oral 43	Helen K. Feord	Supraglacial microbial community responses to precipitation/freezing events
11:45-12:00	Oral 44	Francesca Schiv-alocchi	Carbon Source Dictates Microbial Niche Partitioning and Metabolic Specialization in Snowpacks
12:00-12:15	Oral 45	Sanne Mariël Moedt	Resurrecting Arctic marine phytoplankton to study their adaptation to climate change



12:15-12:30	Oral 46	Jennie Spicker Schmidt	A Novel Mechanism of Sea-Surface-Micro-layer Formation Driven by Terrestrial Run-off: A Source of Ice Nucleating Particles in Arctic Coastal Waters
<b>12:30-14:00</b>	Lunch break		
		<b><i>Chairs</i></b>	<b><i>Sanne Mariël Moedt and Chris Williamson</i></b>
14:00-14:15	Oral 47	Max M. Häggblom	Subzero Active Bacteria in Arctic and Antarctic Soils
14:15-14:30	Oral 48	Madeleine Lewis	Discovering cells in ancient ice: million-year-old time travelers or modern-day hitchhikers?
14:30-14:45	Oral 49	Masoumeh Kashiri	Pathogenicity-Related Traits in Bacteria from the Stubai Glacier
14:45-15:00	Oral 50	Oddur Þór Vilhelmsson	Arctic and sub-Arctic marine diatoms alter their associated microbiomes upon exposure to fluorinated alkyl pollutants
15:00-15:15	Oral 51	Jenni Hultman	Pre and post restoration changes in microbial activity from two forestry drained fens in Northern Finland
15:15-15:30	Oral 52	Laura Zucconi	A decade of climate change impacts fungal communities stronger than bacterial ones in high-altitude soils of the Italian Apennine
<b>15:30-16:00</b>	<b>Coffee break</b>		
		<b><i>Chairs</i></b>	<b><i>Jenni Hultman and Marco Ajmar</i></b>
<b>16:00-16:30</b>	<b>Keynote lecture 4</b>	<b>Jackie Goordial</b>	<b>Permafrost perspectives: microbial oases and activity within permafrost</b>
16:30-16:45	Oral 53	Gerardo A. Stoppiello	Interannual bacterial diversity variability in Antarctic snow/ice samples in the vicinity of Concordia Station

16:45-17:00	Oral 54	Ricardo Belmonte-Lopes	Community composition and functional ecology of Antarctic cryptoendolithic communities
17:00-17:15	Oral 55	Belinda Ferrari	Atmospheric Chemosynthesis: Redefining Microbial Survival in Cold Deserts
17:15-17:30	Oral 56	Samantha Jenkins	Photophysiological Adaptation of Polar Cyanobacteria
17:30-17:45	Oral 57	Thulani Makhalanyane	Understanding climate change effects on Antarctic microbiomes
17:45-18:00	Oral 58	Ianina Altshule	Microbially mediated soil GHG fluxes in Alpine ecosystems: seasonal and diurnal patterns under current and warming conditions

**Friday - Eukaryotic microbial diversity (e.g., algae and fungi), Viruses in polar and alpine environments, Microbial communities and global change, Biotechnology of cryospheric microorganisms**

Time	Oral/Poster	Who	Title
8:30-9:00	Arrival	Everyone	
		<b><i>Chairs</i></b>	<b><i>Emily LM Broadwell and Mirjam Paasch</i></b>
<b>9:00-9:30</b>	<b>Keynote lecture 5</b>	<b>Claudia Coleine</b>	<b>Fungi at the edge: biodiversity, adaptation and ecosystem roles in cold environments</b>
9:30-9:45	Oral 59	Priyanka R. Majumdar	Novel fungal diversity in soils of Robinson Ridge in East Antarctica
9:45-10:00	Oral 60	Nina Gunde-Cimerman	Halophilic and Psychrotolerant Fungi from High-Altitude Hypersaline Environments of the Bolivian Altiplano

10:00-10:15	Oral 61	Tommaso Lamesta	Unveiling Environmental Drivers of Ice-Nucleating Particles in Greenlandic soils: Evidence from Fungal Communities
10:15-10:30	Oral 62	Laura Selbmann	Multi locus-phylogeny reveals myriads of new black fungal taxa from endolithic microbial communities of the Antarctic Desert
<b>10:30-11:00</b>	<b>Coffee break</b>		
		<b><i>Chairs</i></b>	<b><i>Nina Gunde-Cimerman and Jeff Havig</i></b>
<b>11:00-11:30</b>	<b>Keynote lecture 6</b>	<b>Christopher Bellas</b>	<b>Polar and Alpine Virology: Discoveries and Implications Beyond the Field</b>
11:30-11:45	Oral 63	Martin Boutroux	Viral biodiversity in glacier-fed streams
11:45-12:00	Oral 64	Tatiana Demina	Viral communities in polar and subarctic sea ice
12:00-12:15	Oral 65	Thomas M. Pitot	Viruses of polar lakes: Diversity, endemism, and the pivotal ecological role of giant viruses
12:15-12:30	Oral 66	Mirjam Paasch	Glacier ice algae responses to increased iron availability
<b>12:30-14:00</b>	<b>Lunch break</b>		
		<b><i>Chairs</i></b>	<b><i>Kara Sampsell and Harpreet Singh</i></b>
14:00-14:15	Oral 67	Léa Francomme	Exploring the genome and ecology of <i>Hydrurus foetidus</i> - the dominant alga in glacier-fed streams
14:15-14:30	Oral 68	Emily LM Broadwell	Divergent photophysiological responses in neighbouring surface algal communities on the western Greenland ice sheet
14:30-14:45	Oral 69	Jeff Havig	Evidence for carbon limitation in snow algae blooms across the Cascade Range and Rocky Mountains of the United States

14:45-15:00	Oral 70	Ben Johnson	Quantifying and Investigating the Spatial Distribution of a Glacier Algal Bloom
15:00-15:15	Oral 71	Christopher J Williamson	Ubiquitous and expanding glacier algal blooms around the Greenland Ice Sheet
15:15-15:30	Oral 72	Valentina Savaglia	Complete genomes of three novel Antarctic <i>Nostoc</i> strains and their adaptations to extreme conditions
<b>15:30-18:00</b>	Coffee break, Assembly, prizes, next PAM and Goodbye		