

# 8th International Conference on Polar & Alpine Microbiology

University of Waikato, Hamilton, New Zealand  
4-8 February 2019



confer.nz/pam2019

## Sunday 3rd February

16.00	Registration Desk Open	Te Whare Tapere Iti - The University of Waikato
17.00 - 19.00	Welcome Reception	Te Whare Tapere Iti - The University of Waikato

## Monday 4th February

8.15	Registration Desk Open	S Block
9.00	Conference welcome from Prof Bruce Clarkson PVC Research University of Waikato	S104
9.30	Keynote - Mark Skidmore Linking elemental cycle in glacial systems through microbial processes	
10.30am	Morning Tea	S Block
<b>Session A</b> Glaciers Chair: Ian Hawes		
11.00	Cene Gostinčar Population genomics of polyextremotolerant polar fungi	
11.25	Mukan Ji Soil bacterial community assembly changes during primary succession	
11.50	Laura Perini Algal-fungal interactions on the Greenland Ice Sheet surface	
12.15	Nina Gunde Cimerman - Fungi in Svalbard glaciers and Greenland Ice Sheet: Are they alike?	
12.40	Lunch	S Block
<b>Session B</b> Sea Ice Chair: Ken Ryan		
13.40	Tim Vogel Determining possible origin, structure and function of microbial communities	
14.05	Eeva Eronen Rasimus - Excess carbon induces PHA production in Antarctic sea-ice bacteria	
14.30	Rose Layton Migration and colonisation of multiple niches in young sea ice and frost flowers	
14.55	Eric Collins An atlas of arctic marine microbial diversity reveals the uniqueness of sea ice	
15.20	Ken Ryan In situ hyperspectral imaging of the distribution and abundance sea-ice bottom algae	
15.45	Afternoon Tea	S Block
<b>Session C</b> Permafrost Chair: Ian McDonald		
16.15	Tatiana Vishnivetskaya First gaze at microbial community of the marine permafrost through metagenomics	
16.40	Madison Ellis Fungal community composition in permafrost and dynamics post-thaw	
17.05	Eric Bottos Ecological controls on bacterial community structure in Antarctic Dry Valley soils	
17.30	TBC	
17.55	End of Conference Day 1	

## Tuesday 5th February

8.15	Registration Desk Open	S Block
9.00	Keynote - Alison Murray Patterns in microbial diversity at, and between the polar oceans	S104
10.00	Morning Tea	S Block
<b>Session D</b> Microbial Ecology Chair: Steven Archer		
10.30	Cristina Purcarea Total and active microbiome from perennial cave ice	
10.55	Katie King-Miaow High temporal resolution sampling of polar airborne microorganisms	
11.20	Pedro Lebre Caudovirales drive viral-host competition in Antarctic microbial communities	
11.45	Zachary Cooper Uncovering microbial community diversity in Alaskan cryopeg brines	
12.10	Lunch	S Block
<b>Session E</b> Sentinels for Change Chair: Craig Cary		
13.10	Robyn Barabato Deciphering unique microbial diversity within the late Holocene in interior AK	
13.35	Mafalda Baptista Nitrogen point source tracking in Antarctica environments: a case study of Cape Adare penguin colony	
14.00	Alyce Hancock Effects of ocean acidification on Antarctic marine microbial communities	
14.25	Max Häggblom Dynamics of subzero-active bacterial communities in arctic tundra soils	
14.50	Maria Monteiro How resilient Antarctic microbiomes can be to climate-induced changes?	
15.15	Afternoon Tea	S Block

15.45	Flash Posters 3 minute presentations by poster presenters followed by Poster Session
19.00	End of Conference Day 2

## Wednesday 6th February

Field Trip Day

## Thursday 7th February

9.15	Registration Desk Open	S Block
10.00	Keynote - Catherine Larose What shapes communities in snow?	S104
11.00	Morning Tea	S Block
<b>Session F</b> Physiology and Processes Chair: Matt Stott		
11.30	Alexander Michaud Glacial influences on carbon mineralization pathways in Arctic fjord sediments	
11.55	Angelique Ray Bacteria living on air: trace gas chemoautotrophy is abundant in Antarctic soils	
12.20	David Kaftan Ecophysiology of European cryotrophic chlamydomonadales (chlorophyta)	
12.45	Adriana Rego Diversity of bacterial biosynthetic genes across Fildes Bay, King George Island	
13.10	Lunch	S Block
<b>Session G</b> Biogeography and Patterns Chair: Charles Lee		
14.10	Stephen Archer Microbial dispersal limitation to the McMurdo Dry Valleys of Antarctica	
14.35	Nora Els Vertical Biogeography: Bacterial and fungal diversity beyond the boundary layer	
15.00	Antonio Alcamí Diversity of DNA and RNA viruses in polar regions	
15.25	Afternoon Tea	S Block
15.50	Tine Grebenc Hypogeous fungi (truffles) diversity and cultivation at the upper timber line	
16.15	Otakar Strunecky Cyanobacteria from polar regions, a field identification guide	
16.40	Steven Hanes Cold-adapted Enzymes: Analysis of Ess1, a key regulator of RNA polymerase II	
17.05	End of Conference Day 4	
17.15	Conference Feast transport departs	Hobbiton

## Friday 8th February

8.15	Registration Desk Open	S Block
9.00	Keynote Craig Herbold	S104
10.00	Dirk Wagner PAM 2021	
10.10	Morning Tea	S Block
<b>Session H</b> Microbiomes Chair: Kevin Lee		
10.40	Caterina Magalhães Biogeography of Arctic microbial nitrogen-cycling traits in the Svalbard shelf	
11.05	Igor Pessi Meta-omics investigation of soil communities in the Finnish Arctic tundra	
11.30	Katie Sipes Metagenome assembled genomes (MAGs) from freshwater Siberian permafrost	
11.55	Lucie Malard The diversity and biogeography of the Antarctic surface snow bacteriome	
12.20	Alison Murray Polar windows to Ocean Worlds of the Outer Solar System	
12.45	Conference Close	
13.00	Lunch	S Block

## Saturday 9th February

<b>Workshops</b>		
9.00	Workshop: New tool in microbial research - Sponsored by Thermo Fisher Scientific	Thermo Fisher Scientific
12.00	Lunch provided	
13.00	Workshop: Advances in metagenomics analysis	
17.00	End of workshops	

