

11th
International
Conference on
Polar and Alpine
Microbiology

Winnipeg, Manitoba
October 2027



Organizing Team

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Territorial Acknowledgement

The University of Manitoba campuses and research spaces are located on original lands of Anishinaabeg, Ininiwak, Anisininewuk, Dakota Oyate, Dene and Inuit, and on the National Homeland of the Red River Métis.

We recognize that the Treaties signed on these lands are a lifelong, enduring relationship, and we are dedicated to upholding their spirit and intent. We acknowledge the harms and mistakes of the past and the present. With this understanding, we commit to supporting Indigenous excellence through active Reconciliation, meaningful change, and the creation of an environment where everyone can thrive. Our collaboration with Indigenous communities is grounded in respect and reciprocity and this guides how we move forward.

Outline of Potential Sessions

- **Day 1: Human-to-Human — Communities of Practice**

- environmental monitoring, genomics methods, interdisciplinary communication, cross-disciplinary collaboration, art and science, research infrastructure, field methodology, network coordination, Indigenous knowledge, data sovereignty, CARE/FAIR principles, pan-Arctic policy, community-based monitoring, nomenclature, consent and access

- **Day 2: Human-to-Microbe — Human Effects on Microbes**

- permafrost thaw, carbon turnover, community assembly, disturbance, degradation, peatland drainage, contamination, pollutants, drought, warming impacts, restoration, land use change, climate change effects, long-term ecosystem shifts, glacial retreat

- **Day 3: Microbe-to-Human — Microbial Effects on Humans**

- bioaerosols, ice nucleating particles, atmospheric microbes, coastal runoff, pathogenicity, glacier melt, nutrient flux, water quality, climate feedbacks, zoonosis, microbiomes of the built environment, high-latitude health, risk communication, ecosystem services, harmful algal blooms

- **Day 4: Microbe-to-Microbe — Relationships on Ice**

- horizontal gene transfer, adaptation, evolution, biogeography, community dynamics, entrainment, metabolic interaction, cooperation, biofilms, niche partitioning, metabolic specialization, resource competition, coordinated stress response, dormancy, ancient cells, seed banks, survival strategies, microbial oases, stochastic dynamics, chemosynthesis, cryptoendoliths, viral ecology and diversity, endemism



Churchill Marine Observatory





See the world's largest collection of contemporary Inuit art at **Qaumajuq - Winnipeg Art Gallery**

Winnipeg means “muddy waters”
Manitoba means “Home of the Great Spirit”



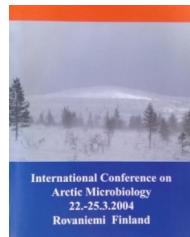
A short flight (or 40 hour train ride) to the **Polar Bear Capital of the World**
(Churchill, Manitoba)



North American Fall traditions: **Corn Maze!**



PAMII.ca
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