





SHEDDING LIGHT ON THE NORTH

HEALTH | ENVIRONMENT | INNOVATION



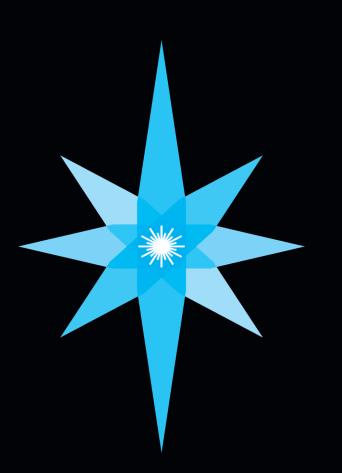




To shed light on the northern environment and its impact on humans through interdisciplinary research initiatives and innovation in support of sustainable health and development

2015 - 2025





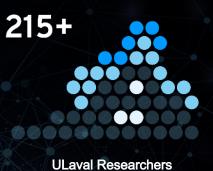
The Sentinel North Strategy

Uniting and consolidating the research strengths of ULaval

- Arctic research
- Optics and photonics innovation
- Microbiome and cardiometabolic health
- Neurophotonics and mental health







Interdisciplinary Research Teams





National and International Partners



A MOBILIZING NETWORK @ ULAVAL

500+

Community of researchers and staff

45+

Departments

15+

Centres & research institutes





Institut nordique du Québec

Ensemble pour le Nord

Continuing to propel **ULaval's** research strengths in northern and Arctic research

- State-of-the-art research laboratories
- Training, outreach and knowledge mobilization
- Incubator for social and technological innovation

Prof. Jean-Éric Tremblay Directeur scientifique Brigitte Bigué Directrice des opérations

ENTINELLE NORD | UNIVERSITÉ LAVAL

Joint International Research Units

- Chemical and Biomolecular Research of the Microbiome and its Impacts on Metabolic Health and Nutrition JIRU (CNR, Italy)
 - CERC in the Microbiome- Endocannabinoidome Axis in Metabolic Health (Chairholder: Vincenzo Di Marzo)
- Child Neural Development and Psychiatry JIRU (U.Lausanne, Switzerland)
 - CERC in Neurophotonics (Chairholder: Pierre Marquet)
- Québec-Brazil Photonics Research JIRU (UNESP, Brazil)
 - CERC in Photonic Innovations (Chairholder: Younès Messaddeg)
- Takuvik JIRU (UL/CNRS, France)
 - CERC in Remote Sensing of Canada's New Arctic Frontier (Chairholder: Marcel Babin)













Sustaining Key activities

- Diversified funding sources—combining grants, industry, international partners, and community support to build resilience.
- Embedded projects within local and global partnerships, ensuring ongoing collaboration and shared ownership.
- Developed scalable and modular sustainability projects —allowing for changing situations or growth without starting from scratch.