

Curriculum vitae with track record

Personal information

First name, Surname:	Tveit Alexander Tøsdal		
Date of birth:	23.05.1983	Sex:	Male
Nationality:	Norwegian		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	https://orcid.org/0000-0002-4163-3416		
URL for personal website:	Personal: Tveit, Alexander UiT My research group: Cells in the Cold Laboratory UiT		

Education

Year	Faculty/department - University/institution - Country
2014	Ph.D. Department of Arctic and Marine Biology, UiT, The Arctic University of Norway, Norway
2009	Master's Department of Biology, University of Bergen, Norway

Positions - current and previous

	Job title/name of employer/country
2018-	Researcher and PI/ Department of Arctic and Marine Biology, UiT, The Arctic University of Norway/Norway

	Job title/name of employer/country
2014-2015	Postdoctoral Researcher, Department of Arctic and Marine Biology, UiT, Norway.
2016-2018	Postdoctoral Researcher, Division of Terrestrial ecosystem research (TER) and Division of computational systems biology (CUBE), department of Microbiology and Ecosystem Science, University of Vienna, Althanstrasse 14, Vienna, Austria.

Project management experience

(Academic sector/research institutes/industrial sector/public sector/other. Please list the most relevant.)

	Project and role, funding from
2016-2019	PI of "Time & Energy", MSCA project funded by RCN and ERC
2018-2023	PI of "Cells in the Cold", Starting grant funded by Tromsø research foundation
2021-2025	PI of "Living on air". Researcher project for young talents funded by RCN

Supervision of students

Total number of students (graduated)

Master's students	Ph.D. students	University/institution - Country
8 (7)	5 (1)	UiT, The Arctic University of Norway
	1	UiB, University of Bergen

Other relevant professional experiences

(E.g. institutional responsibilities, organisation of scientific meetings, membership in academic societies, review boards, advisory boards, committees, major research or innovation collaborations, other commissions of trust in public or private sector)

Year	Description - Role
2019 –	Principal responsible for establishment of ICOM, a new laboratory infrastructure for high-tech experimental microbial ecology at UiT the Arctic University of Norway
2019 –	Board member, Kong Haakon den 7des utdannelsesfond for norsk ungdom, UiT the Arctic University of Norway, Norway
2019 –	Board member, Norwegian Society for Microbiology
2018 –	Member of the Forhot Natural soil warming experiment in Iceland (https://forhot.is/)
2021 –	Member of the Cape Horn International Center for Global Change Studies and Biocultural Conservation (CHIC). National Agency for Research and Development (ANID), Ministry of Science and Technology of Chile.
2013 –	Reviewer in ISME journal, Environmental microbiology, Nature Communications and other high quality journals

Track record

Total number of publications: 22

[Alexander Tøsdal Tveit - Google Scholar](#)

[Alexander Tøsdal Tveit \(researchgate.net\)](#)

Selected publications of particular importance:

Söllinger A, Séneca J, Dahl MB, Motleleng LL, Prommer J, Verbruggen E, Sigurdsson BD, Janssens I, Peñuelas J, Urich T, Richter A, **Tveit AT**. 2022 Downregulation of the bacterial protein biosynthesis machinery in response to weeks, years, and decades of soil warming. **Science Advances**. DOI: 10.1126/sciadv.abm3230. Citations: **2 (google scholar 07.09.2022)**.

Tveit AT, Schmider T, Hestnes AG, Lindgren M, Didriksen A Svenning MM. 2021. Simultaneous Oxidation of Atmospheric Methane, Carbon Monoxide and Hydrogen for Bacterial Growth. **Microorganisms**. <https://doi.org/10.3390/microorganisms9010153>. Citations: **7 (google scholar 07.09.2022)**.

Tveit AT, Hestnes AG, Robinson SL, Schintlmeister A, Dedysh SN, Herbold C, Wagner M, Richter A & Svenning MM. 2019. Widespread soil bacterium that oxidizes atmospheric methane. **Proceedings of the National Academy of Sciences of the United States of America**. <https://doi.org/10.1073/pnas.1817812116>. Citations: **110 (google scholar 07.09.2022)**.

Tveit AT, Urich T, Frenzel P, Svenning MM. 2015. Metabolic and trophic interactions modulate methane production by Arctic peat microbiota in response to warming. **Proceedings of the National Academy of Sciences of the United States of America**. doi:10.1073/pnas.1420797112. Citations: **170 (google scholar 07.09.2022)**.

Geisen S, **Tveit AT**, Clark IM, Richter A, Svenning, MM; Bonkowski M, Urich, T. 2015. Metatranscriptomic census of active protists in soils. *The ISME Journal*. doi:10.1038/ismej.2015.30. Citations: **210 (google scholar 07.09.2022)**.

Tveit AT, Urich T, Svenning MM. 2014. Metatranscriptomic analysis of Arctic peat soil microbiota. **Applied and Environmental Microbiology**. doi:10.1128/AEM.01030-14. Citations: **145 (google scholar 07.09.2022)**.

Tveit AT, Schwacke R, Svenning MM, Urich T. 2013. Organic carbon transformations in high-Arctic peat soils: key functions and microorganisms. **The ISME Journal**. doi: 10.1038/ismej.2012.99. Citations: **281 (google scholar 07.09.2022)**.

Total number of invited presentations: 12

Selected invitations of particular importance:

Preliminary title: tbd. Gordon conference on Applied and Environmental microbiology; *Writing the microbial constitution*; Session - Amending the constitution: Microbes and Climate change. Mt. Holyoke College, Massachusetts, USA. July 16-21. 2023.

Microbial physiological responses to global warming. Key-note speaker on the 9th International Conference on Polar and Alpine Microbiology. October 9-14 2022, German Research Centre for Geosciences, Potsdam, Germany.

Climate change effects on microbial communities in Arctic peat. The 27th International Symposium on Polar Sciences. Two decades of Korean Arctic research: Looking back to look forward. Online conference. 20th September 2022.

Atmospheric methane oxidizing bacteria. Gordon conference on Molecular Basis of Microbial One-Carbon Metabolism; Session - Enzymes and Metabolisms Driving the Global Carbon Cycle. Southbridge Hotel & Conference Center in Southbridge, Massachusetts, August 7 - 12, 2022.

Physiological temperature response of carbon cycling microorganisms. NORDic network for BioGeoScience in terrestrial, aquatic and marine ecosystems. Online research seminar. December 9th. 2021.

Effects of above-ground herbivory on the soil microbial foodweb. Key-note speaker for the Ny-Ålesund Terrestrial Flagship side meeting at Svalbard Science Conference. Oslo. November 1st. 2021.

Microbial communities in active layers of peat soil permafrost ecosystems and their response to temperature. Ecological Society of America. Session - Permafrost Microbial Ecology and Climate Change. Portland, Oregon, USA. August 6-11. 2017

Regulatory temperature responses in *Methylobacter tundripaludum*. International Symposium on Polar Sciences, Incheon, South Korea. May 10-11. 2016

Experiences from major research communication, dissemination or outreach activities and/or invited presentations in public conferences.

Year	Type of outreach
2015	Saturday University – A popular science presentation series in the Tromsø public house
2015	Interview with Lab Times, News Magazine for European Life Science
2016	Guest in the popular science magazine EKKO at NRK, Broadcasted at 28.01.16. Topic: The Arctic Methane cycle.
2016	Svalbardkurset, Ny Ålesund, Svalbard – a course in Arctic science and management for politicians, teachers and other non-scientists working for the Norwegian government
2019	Commentary published in a leading national newspaper https://www.aftenposten.no/viten/i/6j4dmQ/Denne-bakterien-kan-spise-drivhusgassen-metan
2020	Podcast session hosted by the National academy of Sciences, USA
2022	Piece for norwegian science dissemination webpage written together with Charlotte Stark https://forskning.no/bakterier-cellebiologi-jord-og-skog/bakteriene-i-jorda-blir-slankere-av-global-oppvarming/2002619

Prizes, awards and grants:

Prizes and awards

Year	Prizes/awards
2014	ISME 15, Seoul, South Korea - The ISME Travel Grant Award
2019	Young researcher of the year award. UiT, The Arctic University of Norway. 100,000 NOK
2019	Cozzarelli Prize. An award by the National Academy of Sciences (NAS), USA, which recognizes outstanding contributions of scientific excellence and originality. Our paper <i>Widespread soil bacterium that oxidizes atmospheric methane</i> was chosen among more than 3,300 research articles in the category “Biomedical sciences”.

Grants

Year	Grant
2011	Arctic Field Grant 2011, Svalbard Science Forum (2011/46-54/IS/), 34000 NOK.
2014	UiT The Arctic University of Norway, Transition stipend, 163,000 NOK
2016	MSCA (Marie Skłodowska-Curie actions) fellow, 3.1 MNOK
2018	Tromsø Research foundation recruitment grant, 25 MNOK (2.5 million EUR)

2019	Strategic award for establishment of new laboratory infrastructure at UiT, The Arctic University of Norway. 18 MNOK
2021	Research project for young talents. RCN. 8 MNOK
2022	Climate, Food and Farming, Global Research Alliance Development Scholarships (CLIFF-GRADS) Programme. CLIFF-GRADS builds capability in early-career scientists from developing countries to conduct applied research in agriculture. Travel and living costs to cover a 6 month stay in Tromsø.