

Curriculum Vitae with track record

PERSONAL INFORMATION

Family Name, First Name	Hanssen, Katrine Sjaastad
Date of birth:	13.01.1993
Sex:	Female
Nationality:	Norwegian
Researchers' unique identifier(s):	ORCID: 0000-0002-5215-4357

EDUCATION

Year	Name of Faculty/Department, Name of University/Institution, Country
2019 - 2023	Ph.D. in Medicine and Health Sciences, Kavli Institute for Systems Neuroscience (KISN) & Department of Neuromedicine and Movement Science (INB), Norwegian University of Science and Technology (NTNU), Norway.
2017 – 2019	M.Sc. in Neuroscience, KISN, NTNU, Norway. Collaboration project between Witter group (KISN) and Sandvig group (INB).

CURRENT AND PREVIOUS POSITIONS

Year	Name of Faculty/Department, Name of University/Institution, Country
2023 – Current	Innovation-focused researcher position in the Sandvig group, INB, NTNU, Norway. (Funded by NTNU Discovery).
2023 – Current	Working group member, EU Joint Project for Neurodegenerative Disease Research (JPND) – Addressing the effects of COVID 19 on Alzheimer's and Parkinson's Patients (DEFINE).
2024 – Current	Research Coordinator, Interventions against COVID in Norway (ReCover).
2019 – 2019	Staff Engineer, Sandvig lab (INB) & Animal Facility (KISN), NTNU, Norway.

ACADEMIC ORGANIZATIONAL ROLES

2023 – Current	Co-organizer, Joint Meeting and Alzheimer's patient Outreach event for JPND, DEFINE and CAG for AD, Trondheim, Norway.
2023 – Current	Co-organizer, Workshop 1-2 JPND, DEFINE, London, UK. (10 attendees)
2023	Organizer, 1 st PhD student symposium, MH Faculty ^[3] , NTNU. (25 attendees)
2022	Co-organizer, Prof. Menno Witter's retirement Symposium, KISN, NTNU. (Organized lunches and lab tour for 4 visiting professors)

2021 - 2023	Organizational Committee Member, YROCK (Young Researchers of CNC and Kavli), NTNU.
2020 - 2021	Organizational Committee Member, 8 th Norwegian Research School in Neuroscience (NRSN), PhD Conference in Neuroscience, Norway. (70 attendees, digitally due to covid19)

INSTITUTIONAL RESPONSIBILITIES

2021 - 2023	PhD student representative, Program Board, MH Faculty, NTNU.
2021 - 2023	PhD student representative, Admission Board, KISN, NTNU.
2020 - 2023	PhD student representative, Extended Leader Group, KISN, NTNU.

SUPERVISION AND TEACHING ACTIVITIES

2023 – Current	Supervision and training of a M.Sc. student
2021 - 2022	Supervision and training of two M.Sc. students.
2020 - 2021	Training of one forskerlinje student.
2019 - 2022	Cellular and Systems Neuroscience (NEVR3001), NTNU (lecturer)

AWARDED FUNDING

2022	DION Winter Grant Application for organizing a PhD student social event (awarded 2000 NOK).
2020	NRSN International Training Grant for attending JANUBET Primate Neurobiology School (awarded 14.500 NOK)
2019	NRSN International Training Grant for attending CMOS Advanced Training Session, Italy (awarded 5544 NOK).

ACADEMIC TRAINING AND MOBILITY

2022	JANUBET (Japan and Norway United in Brain, Education and Therapeutics) Primate Neurobiology School, 5 days, Japan
2021	JANUBET Primate Neurobiology School, 6 days, Virtual
2021	NRSN Aspiring Supervisor Workshop, 3 days, Norway
2020	NRSN Scientific Writing Workshop, 3 days, Norway
2020	Advanced Course in Laboratory Animal Research, 5 days, Denmark
2018	FELASA C certificate, NTNU, Norway.

Track record (last 5 years)

ARTICLES

2023: [Hanssen, KS, Witter MP, Sandvig A, Sandvig I, Kibro-Flatmoen A. Dissection and culturing of adult lateral entorhinal cortex layer II neurons from APP/PS1 Alzheimer model mice. 2023; 21:390.](#)

PREPRINTS

2023: Hanssen KS*, Winter-Hjelm N*, Niethammer SN, Kibro-Flatmoen A, Witter MP, Sandvig A, Sandvig I. Reverse engineering of feedforward cortical-hippocampal neural networks relevant for preclinical disease modelling. Preprint in bioRxiv, June 2023, doi.org/10.1101/2023.06.26.546556 *Shared first authorship.

2023: Weir JS*, Hanssen KS*, Winter-Hjelm N, Sandvig A, Sandvig I. Altered structural organization and functional connectivity in feedforward neural networks after induced perturbation. Manuscript in preparation. Preprint in bioRxiv, September 2023, <https://www.biorxiv.org/content/10.1101/2023.09.12.557339v1> *Shared first authorship.

ACADEMIC THESISES

PhD thesis title (NTNU Open): [“Dissecting the complexities of Alzheimer’s disease: Engineering selectively vulnerable neural networks in vitro”](#) (Defended 03.11.23).

M.Sc. thesis title (NTNU Open): [“Establishing lateral entorhinal cortex layer II neuron cultures as a tool for the investigation of early Alzheimer’s disease”](#). Final grade: A.

SCIENTIFIC COMMUNICATION (INVITED TALKS)

ACADEMIC	
2023	10 th NRSN PhD Conference. Title of Oral presentation: “Reverse engineering of feedforward cortical-hippocampal neural networks relevant for preclinical disease modelling”. 15 minutes presentation/questions. Audience: MSc students, PhD students and postdocs. 50 attendees.
2022	Kavli Spring Symposium 2022, NTNU. Title of talk: “An in vitro platform to study entorhinal-hippocampal neuronal networks”. 20 minutes. Audience: researchers/professor/students at the Kavli Institute of Systems Neuroscience. 70 attendees.
2022	9 th NRSN PhD Conference. Title of Oral presentation: “An in vitro platform to study entorhinal-hippocampal neural networks”. 15 minutes presentation/questions. Audience: PhD students, 50 attendees.
2019	Alzheimer’s disease (AD)-seminar series. NTNU. Title of talk: “Developing a novel in vitro platform to study Alzheimer’s disease-relevant neuronal networks”. 45 min presentation/discussion. Audience: researchers and clinicians. 30 attendees.

POPULAR SCIENTIFIC TALKS	
Planned 2024	Nasjonalforeningen Grong Demensforening. 40 min talk in Norwegian: «Alzheimer sykdom – hva er det som skjer i hjernen?». Attendees: n=x. To be presented in April 2024.
2023	Brain Awareness Week, KISN, NTNU, SMN1. 30 minutes talk/discussion. Title of talk: “Leve bedre med Alzheimer?”. Ca. 100 attendees.
2023	Vinterlysfestivalen/Theatre Festival, Mo I Rana. Talk in Norwegian. Title of talk: “Demens; Alzheimer’s sykdom”. 1 hour talk/discussion. Ca. 130 attendees.
2023	PARAT NTNU, Annual meeting (digital). 45 minutes talk/discussion. Title of talk: “Alzheimer sykdom”. 25 attendees.

SCIENTIFIC COMMUNICATION (POSTER PRESENTATIONS)

2024	Hanssen KS , Winter-Hjelm N, Niethammer SN, Witter MP, Kibro-Flatmoen A, Sandvig A, Sandvig I. «Reverse Engineering of Feedforward Cortical-Hippocampal Neural Networks for Advanced Modelling of Neurodegeneration». 4 th Nordic Neuroscience Meeting, Copenhagen, Denmark, January 2024.
2023	Hanssen KS , Winter-Hjelm N, Niethammer SN, Witter MP, Kibro-Flatmoen A, Sandvig A, Sandvig I. “An in vitro platform to study entorhinal hippocampal neuronal networks”. 17 th International Conference on Alzheimer’s & Parkinson’s Diseases, Gothenburg, Sweden, March 2023.
2022	Hanssen KS , Winter-Hjelm N, Niethammer SN, Sandvig A, Witter MP, Kibro-Flatmoen A, Sandvig I. “An in vitro platform to study entorhinal-hippocampal neuronal networks”. JANUBET Symposium 2022, Kyoto, Japan, September 2022. Hanssen KS , Winter-Hjelm N, Niethammer SN, Sandvig A, Witter MP, Kibro-Flatmoen A, Sandvig I. “An in vitro platform to study entorhinal-hippocampal neuronal networks”. FENS Forum 2022, Paris, France, July 2022. Hanssen KS , Ioanna Sandvig I, Sandvig A, Witter MP, Kibro-Flatmoen A. “An in vitro platform to study entorhinal-hippocampal neuronal networks”. 16 th International Conference on Alzheimer’s & Parkinson’s Diseases, Barcelona, Spain, March 2022
2021	Hanssen KS , Sandvig I, Sandvig A, Witter MP, Kibro-Flatmoen A. “An in vitro platform to study entorhinal networks in Alzheimer’s disease”. JANUBET Symposium 2021, Virtual Japan/Trondheim, September 2021. Hanssen KS , Sandvig I, Sandvig A, Witter MP, Kibro-Flatmoen A. “An in vitro platform to study entorhinal networks in Alzheimer’s disease”. Virtual AD/PD 2021, 15 th International Conference on Alzheimer’s & Parkinson’s Diseases, Virtual conference, March 2021.
2020	Hanssen KS , Kibro-Flatmoen A, Sandvig I, Sandvig A, Witter MP. “A novel in vitro platform to study neuronal networks in Alzheimer’s Disease”. Virtual FENS Virtual Forum, July 2020.
2019	Hanssen KS , Kibro-Flatmoen A, Sandvig I, Sandvig A, Witter MP. “Establishing entorhinal cortex layer II neuron cultures to investigate early stages of Alzheimer’s disease”. Nordic Neuroscience Conference, Helsinki, Finland, July 2019.

