CLUSTER 1
HORIZON EUROPE

NTNU HEALTH IN EUROPE: LIST OF CALLS WITH THEIR RESPECTIVE INTERESTED NTNU RESEARCHERS

PRODUCED BY: NTNU BRUSSELS OFFICE, TSO HEALTH AND MH FACULTY
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Dear Reader,

Are you looking for the best researchers with whom to collaborate on Horizon Europe cluster 1 bids? Then, read on.

We have matched our researchers to the upcoming Horizon Europe calls, based on both their expertise and the industry relations they can bring to the bid.

As the largest university in Norway - NTNU: the Norwegian University of Science and Technology - we can be a powerful partner and collaborator. With 240 signed projects and €133 million in funding from Horizon 2020, we have currently achieved the University’ set targets for it.

And we are setting even more ambitious targets, for Horizon Europe, making it one of the centerpieces of our international strategy.

This document is one of six prospectuses that outline areas of expertise for - and of interest to - NTNU researchers, for each of the upcoming six clusters of Horizon Europe.

They are living documents. Even if you do not find an exact match, our research community would be thrilled to open a collaborative dialogue with you. Just ping a message to one of our institutional contact points, like NTNU’s Brussels Office.

Together, we can create true “knowledge for a better world”.

Tor Grande
Pro-rector of Research
Knowledge provides people with opportunities and influence, as well as a foundation for making wise choices. Knowledge inspires and challenges. It changes attitudes, mindsets, and how we perceive the world around us. Informed debate strengthens our democracy. NTNU’s activities should benefit society as a whole and society can trust that our findings comply with best scientific practice.

Knowledge and technology development create opportunities for increasing sustainable value creation and finding answers to major challenges. Through the United Nations, the world has agreed on 17 Sustainable Development Goals. NTNU will contribute actively towards achieving the Sustainable Development Goals.

**NTNU’s strength is our competence in science and technology combined with academic breadth and interdisciplinarity.**
NTNU is a university with an international focus, with headquarters in Trondheim and campuses in Ålesund and Gjøvik. NTNU has a main profile in science and technology, a variety of programmes of professional study, and great academic breadth, including medicine, architecture, and entrepreneurship.

FACTS

| NOK 9,4 billion | 41 971 | 7401 | 406 |
| annual budget | students | person-years | doctoral degrees |

NTNU offers 371 programmes of study (2019), as well as continuing and further education. The university has the main responsibility for higher education in technology in Norway, and largest in engineering, teacher education and architecture. NTNU aims to be a national hub in programmes of professional study.

NTNU is the institution that is awarded most funding from the Research Council in Norway, as well as being granted with 240 signed projects and a total funding of €133 million from Horizon 2020 (and 11 more projects in the process of being signed). Moreover, NTNU is a host or partner for 46 major research centres (SFF, SFI, and FME), and has internal initiatives to develop and recruit top researchers.

Beyond its science and technology profile, NTNU covers a broad range of social science and humanities (SSH) disciplines including sociology, political science, education, psychology, economics, history, cultural sciences and the arts. Researchers from SSH disciplines have successfully addressed societal issues and contributed to social innovation through participation in more than 30 H2020 projects, presenting NTNU as promising and strong partner in future European collaborations in all Global Challenge clusters under Horizon Europe.

From 2014-2023, NTNU has identified several strategic research areas and enabling technologies:
The NTNU Brussels Office represents NTNU in Brussels, provides strategic advice on European policies, promotes NTNU positions, manages or participates in strategic networks and initiatives in Brussels, and provides professional services to the NTNU community based on its Brussels presence.

The office represents both «the door to NTNU» for organizations that want to collaborate and create synergies with NTNU, and «the door to Europe» for colleague active in or willing to enter the European Arena.

NTNU opened the doors to its Brussels Office in 2015 and today the staff consists of five people, Director Massimo Busuoli, one intern and two trainees, as well as an EU advisor which is stationed in Brussels for the Faculty of Information Technology and Electrical Engineering (IE).

The office activities and services include the following:
- Promotion and representation of NTNU in Brussels
- Positioning of NTNU in relevant Brussels-based initiatives and bodies
- Contribution to improve NTNU's EU project portfolio
- Provide internship opportunities for NTNU employees and students
- Provision of logistic support and services in Brussels
NTNU HEALTH

NTNU Health is one of the four strategic research areas of the Norwegian University of Science and Technology (NTNU). It aims to promote better health, quality of life and sustainable health services, and to create innovative solutions to complex health challenges.

NTNU Health is an entry point for health research at NTNU for a wide range of actors, including the industry, the public sector, decision-makers and authorities, as well as researchers. It supports research, innovation and communication with a broad spectrum of sectors and disciplines. NTNU Health facilitates contact with experts in health research.

NTNU Health supports interdisciplinary collaborations and activities relating to health. It coordinates local initiatives and resources to promote NTNU’s international health research and innovation. NTNU Health also helps to provide research-based advice regarding health-related issues to decision-makers and others who impact on the development of society.

To find out more about NTNU Health, consult our website.
Faculty of Medicine and Health Sciences

Research at NTNU's Faculty of Medicine and Health Sciences consists of a wide range of research fields in medicine and health. This includes basic research, translational research at the intersection between basic and clinical research, as well as applied research.

The Faculty was established 40 years ago and is a centre for both outstanding research and education. It is home to Nobel Prize-winning scientists May-Britt and Edvard Moser who, along with John O'Keefe, were awarded the Nobel Prize in Physiology or Medicine in 2014 for the discovery of the brain's navigation system.

Additionally, the Faculty hosts several centers for outstanding research and research-driven innovation, including no less than:

- **Two Norwegian Centres of Excellence** (SFF) – The [Kavli Institute for Systems Neuroscience](https://kisn.no) (KISN) and the [Centre of Molecular Inflammation Research](https://cemir.no) (CEMIR)
- **Two K.G. Jebsen Centers for Medical Research** – The [K.G. Jebsen Center for Genetic Epidemiology](https://jebsen-center-genetic-epidemiology.ntnu.no) and the [K. G. Jebsen Centre for Alzheimer's Disease](https://jebsen-center-alzheimers-disease.ntnu.no)
- **A Centre for Research-based Innovation** (SFI) - The [Centre for Innovative Ultrasound Solutions for healthcare, maritime, and oil & gas](https://cius.ntnu.no) (CIUS)
Faculty of Medicine and Health Sciences

NTNU’s Faculty of Medicine and Health Sciences also manages The Hunt Study (Trøndelag Health Study), which is one of the largest health studies ever performed. HUNT is a unique database of questionnaire data, clinical measurements and samples collected since 1984. Approximately 300 national and international research projects are currently using the samples and data from HUNT.

Researchers at the Faculty are involved with a wide range of EU-funded projects. We have successfully coordinated and partnered on Pillar 1 Horizon 2020 projects, including ERC Grants, MSCA Individual Fellowships and Innovative Training Networks, as well as FET Open. We also have an established track record in Societal Challenges projects.

Researchers at the Faculty benefit from state-of-the art, high-quality research infrastructure comprising 15 specialist labs/core facilities run by dedicated and highly trained staff.

Together with St Olavs Hospital, NTNU’s Faculty of Medicine and Health Sciences is the largest medical school in Norway. The strong collaboration between the two entities ensures strong ties between basic and patient-oriented research.
COLLABORATING WITH NTNU

As the largest Norwegian university with high multidisciplinary nature, NTNU offers a wide range of expertise and competences. Specific mapping of available researchers willing to collaborate on Horizon Europe have been performed for all clusters, producing documents similar to this brochure.

Make sure you have the latest version available by downloading it from this website.

Should you be interested to explore collaboration opportunities in areas not present in any of these brochures, you can get in touch with the institutional entry points of the university.

ENTRY POINTS

NTNU Brussels Office

Faculty EU advisors

- AD - Fakultet for arkitektur og design – Tone Woie Alstadheim and Srutarshi Pradhan
- HF - Det humanistiske fakultet – Chamila Thushari Attanapola and Thomas Aarnseth
- IE - Fakultet for informasjonsteknologi og elektroteknikk – Nathalie Søyseth
- IV - Fakultet for ingeniørvitenskap – Ingunn Syrstad Bøgeberg and Miriam K. Khider
- MH - Fakultet for medisin og helsevitenskap – Emma Louise Walton and Morgane Colleau
- NV - Fakultet for naturvitenskap – Thais Mothe-Diniz and Eugen Gravningen Sørmo
- SU - Fakultet for samfunns- og utdanningsvitenskap – Bård Li and Jens Rohloff
- ØK - Faculty of Economics and Management – Gunnar Bendheim
- VM - NTNU University Museum – Solveig Bakken
- NTNU in Gjøvik – Anne Hilde Ruen Nymoen
- NTNU in Ålesund – Kirsti Brekke
ASSOCIATED PROFESSORS

Destination 1: Staying healthy in a rapidly changing society

Here you can find potential NTNU professors and employees that are interested in collaborations on destination 1.

The following pages are sorted into the calls for the destination presented cluster 1. To simplify your navigation among available expertises per topic, the list of topics have been made clickable.
DESTINATION 1 - CALLS

DISCLAIMER: Please notice that the Topics list is clickable to allow you to immediately reach the one for which you could be interested to open a collaboration dialogue with NTNU

HORIZON-HLTH-2022-STAYHLTH-01-01-two-stage Boosting mental health in Europe in times of change

HORIZON-HLTH-2022-STAYHLTH-01-04-two-stage Trustworthy artificial intelligence (AI) tools to predict the risk of chronic non-communicable diseases and/or their progression

HORIZON-HLTH-2022-STAYHLTH-01-05-two-stage Prevention of obesity throughout the life course

HORIZON-HLTH-2022-STAYHLTH-02-01 Personalised blue print of chronic inflammation in health-to-disease transition
Odin Hjemdal

**Expertise**
Mental health at large, from adolescents to adulthood. What contributes to promote, conserve and regain mental health. Measurement and evaluation of resilience. Research design related to prevention and promotion and evaluations of interventions. Clinical psychology and evaluations of clinical interventions. Psychotherapy research with main competence within Cognitive Behavioral Therapy (CBT) and Metacognitive Therapy (MCT).

**Relevant projects**
Universal Preventive Resilience Intervention Globally implemented in schools to improve and promote mental Health for Teenagers. PI for several RCTs related to prevention and promotion of mental health as well as treatment of mental disorders.

**Contact information**
odin.hjemdal@ntnu.no
+47 73597889

**Works clinically**

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Steinar Krogstad

**Expertise**
Social epidemiology
Public Health Psychiatry

**Relevant projects**
The HUNT Study, Norway

**Contact information**
steinak@ntnu.no
+47 95219227

**Works clinically**

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Maximiliano Nigro

**Expertise**
Neuroscience. Cortical physiology, sensory processing, neuron diversity.

**Relevant projects**
Maximiliano is Group Leader at the Kavli Institute for Systems Neuroscience. His research group seeks to understand how multisensory integration in the perirhinal cortex - a hub for multisensory integration - contributes to cognition and behaviour. He was awarded a MSCA Individual Fellowship for his RhinalMultiSense project which aims at describing the circuits for multisensory integration in perirhinal cortex.

**Contact information**
maximiliano.j.nigro@ntnu.no
Frode Stenseng
DEPARTMENT OF EDUCATION AND LIFELONG LEARNING
FACULTY OF SOCIAL AND EDUCATIONAL SCIENCES

Expertise
Mental and physical health, new technologies, self-regulation, learning, education, social inequality.

Relevant projects
DROPOT, RCN-project (12. mil.), project-leader (funded in 2020). Plus two more RCN-projects funded in 2021 (NTNU and DMMH), partner.

Contact information
frode.stenseng@ntnu.no
90554746

Relevant industry contacts
A health technology firm; Myworkout. Also VitalThings, producing e.g. the sleep radar Somnofy.

Roger André Søraa
DEPARTMENT OF INTERDISCIPLINARY STUDIES OF CULTURE
FACULTY OF HUMANITIES

Expertise
Automation, robotization, and digitalization of society – how humans and technology relate to each other. Søraa is particularly interested in the social domestication of technology, e.g. research on hospital robots and gerontechnology of the home. Robotization of gerontechnologies, transport and agriculture. Automation of work and practises. Digitalization of society and social media. Japan, Korea, and Asian digitalization.

Relevant projects

Contact information
roger.soraa@ntnu.no

Relevant industry contacts
LEE project, Norwegian robot companies.

Steinar Krogstad
DEPARTMENT OF PUBLIC HEALTH AND NURSING
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Social epidemiology
Public Health Psychiatry

Relevant projects
The HUNT Study, Norway

Contact information
steinak@ntnu.no
+47 95219227

Works clinically
Emre Yaksi
KAVALI INSTITUTE FOR SYSTEMS NEUROSCIENCE
FACULTY OF MEDICINE AND HEALTH SCIENCES

**Expertise**
Zebrafish, microscopy, functional brain imaging, neurophysiology, optogenetics, animal behavior, data analysis, epilepsy, mood disorders, feeding, anxiety, defensive behaviors, chemosensory systems, learning

**Relevant projects**
Our lab is interested in how brain circuits are assembled and function in health and disease. Specifically, we investigate how animals’ internal states and sensory computations are modulated by feeding, defensive behaviors and learning. To achieve this, we focus on cortico-limbic circuits and chemosensory systems, due to their direct relations to emotions and adaptive behaviors. We also investigate how the properties of these circuits are altered in zebrafish models of neurological diseases, with a specific focus on epilepsy, anxiety and neurodevelopmental disorders. Since 2011, our lab has won 5.3 Million euros from competitive funding agencies such as the ERC, NFR, FWO, etc.

Maryam Ziaei
KAVALI INSTITUTE FOR SYSTEMS NEUROSCIENCE
FACULTY OF MEDICINE AND HEALTH SCIENCES

**Expertise**
Aging neuroscience and mental health. I have more than 10 years of experience studying emotion and mental health in healthy and clinical populations. The overarching aim of my research is to understand underlying biological and cognitive factors contributing to mental health issues in healthy aging and dementia using novel and state-of-the-art imaging and daily-life sampling methods.

**Relevant projects**
I have more than 10 years of experience in leading neuroscientific research in the field of aging and cognitive neuroscience. The primary goal of my group is to uncover the biological, behavioral, and cognitive bases of mental health in aging.

Mila Vulchanova
DEPARTMENT OF LANGUAGE AND LITERATURE
FACULTY OF HUMANITIES

**Expertise**
Developmental disorders (ASD, DLD, dyslexia), ageing.

**Relevant projects**
7FP MSCA ITN LanPercept (Scientific Coordinator)
Horizon2020 MSCA ITN DCOMM (WP Lead)
Cost Action IS1406 Enhancing children’s oral language skills across Europe and beyond
Kerstin Bach  
**DEPARTMENT OF COMPUTER SCIENCE**  
**FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING**

**Expertise**  
Artificial Intelligence, Machine Learning, Case-Based Reasoning, eHealth, Intelligent Decision Support Systems

**Contact information**  
kerstin.bach@ntnu.no  
+47 93032400

**Relevant projects**  
selfBACK (2016-2021, project manager)  
Back-UP (2018-2021, partner)

**Relevant industry contacts**  
Telecommunication, Finances, Life Sciences

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Mohammad Hajmohammadian Baghban  
**DEPARTMENT OF MANUFACTURING AND CIVIL ENGINEERING**  
**FACULTY OF ENGINEERING**

**Expertise**  
Digitalization, Building physics, building materials, Sustainability.

**Contact information**  
mohammad.baghban@ntnu.no  
+47 48351726

**Relevant projects**  
Hygrothermal properties of building elements for health issues  
Health, Safety and Environment in building and construction  
Digitalization  
Machine learning

**Relevant industry contacts**  
A large number of companies in building and construction.

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Tone Frost Bathen  
**DEPARTMENT OF CIRCULATION AND MEDICAL IMAGING**  
**FACULTY OF MEDICINE AND HEALTH SCIENCES**

**Expertise**  
Cancer, imaging (MRI/PET clinical and preclinical), metabolomics, AI, multivariate analysis.

**Contact information**  
tone.f.bathen@ntnu.no  
+47 95021097

**Relevant projects**  
PROVIZ - NFR  
180N- Trond Mohn Foundation  
NICI - FET project (WP leader)  
BRIMM - NIH (partner, data provider)  
various imaging/molecular projects  
samarbeidsorganet

**Relevant industry contacts**  
Collaboration agreement with Bruker Biospin GmBH. Development/testing of metabolomics analytical tools.
Duan Chen

DEPARTMENT OF CLINICAL AND MOLECULAR MEDICINE
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Tackling diseases and reducing disease burden, such as cancer (stomach, pancreas and liver) and obesity. Areas of expertise include experimental surgery and preclinical trials. Unlocking the full potential of new tools, technologies and digital solutions for personalized cancer medicine. Areas of expertise include multi-omics, data/pathway mining, computational drug discovery, and validations in silico, in vitro and in vivo.

Relevant projects
1. Nerve-cancer crosstalk with experience in animal modeling, preclinical trials
2. Digital twin for personalized cancer medicine (including immunotherapies) with experience in pre-clinical and clinical validation

Marcos X. Álvarez Cid

DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Expertise
Medical imaging Image Quality Deep Learning Hyperspectral Imaging Colour and Texture Analysis Clinical Decision Support Systems 3D Reconstruction Soft-tissue navigation Fast computation and visualization of resection suggestions

Relevant projects
ALAMEDA – Bridging the Early Diagnosis and Treatment Gap of Brain Diseases via Smart, Connected, Proactive and Evidence-based Technological Interventions, funded under H2020-SC1-DTH-02-2020.


Bjørn Henning Grønberg

DEPARTMENT OF CLINICAL AND MOLECULAR MEDICINE
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Bjørn is a physician and specialist in medical oncology and radiotherapy. He is Professor at NTNU’s Department of Clinical and Molecular Medicine. He is also Unit Leader for translational cancer research and cancer and palliative care, as well as Consultant in Oncology at St. Olavs Hospital, Trondheim University Hospital. Bjørn’s primary focus is lung cancer. He has led several national and international multicentric randomized intervention trials. Other research interests include brain tumors, health related quality of life, body composition and geriatric oncology.

Relevant projects
Espen Ihlen

**Department of Neuromedicine and Movement Science**

**Faculty of Medicine and Health Sciences**

**Expertise**

Espen has a background in Human Movement Science, Computer Engineering, Mathematics and Physics. Development of artificial intelligence and machine learning algorithms for clinical movement analyses. Espen has developed applications for gait analysis for older persons and children with cerebral palsy, movement analysis of infants, and activity recognition of older persons. He has a close collaboration with the Department of Computer Science and Norwegian open AI lab at NTNU.

**Contact information**
espen.ihlen@ntnu.no
+47 47354674

**Relevant industry contacts**
Ascom, Contemplas, and Distributed Medical

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Audrey Van der Meer

**Department of Psychology**

**Faculty of Social and Educational Sciences**

**Expertise**

Developmental Neuroscience, Neuropsychology

**Relevant projects**
Infant research (perceptuomotor and cognitive development), High-density EEG, Brain-computer interface (BCI), Cursive handwriting in a digital world.

**Contact information**
audrey.meer@ntnu.no
+47 73550249

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Marta Molinas

**Department of Engineering Cybernetics**

**Faculty of Information Technology and Electrical Engineering**

**Expertise**

Biotechnology, Electroencephalography applications (medical and non-medical), EEG brain source imaging, wearable EEG, Non-linear and non-stationary signal analysis.

Artificial intelligence and computational intelligence applied to EEG datasets.

**Relevant projects**
EEG channel reduction for EEG source reconstruction applied to sleep research (REM sleep), epilepsy, cognitive development, subject identification and emotion related issues.

**Contact information**
marta.molinas@ntnu.no
+47 94287670

**Relevant industry contacts**
Japanese industries (EEG sensor related, and sleep related technologies), Mentalab (wearable EEG), Mbraintrain (mbt, Wearable EEG)
**Paul Jarle Mork**  
**DEPARTMENT OF PUBLIC HEALTH AND NURSING**  
**FACULTY OF MEDICINE AND HEALTH SCIENCES**  

**Expertise**  
Public health, physical activity, sleep, mHealth, musculoskeletal health, low back pain.

**Relevant projects**  
Coordinator/project leader for selfBACK (H2020 RIA)  
Partner/NTNU PI for Back-UP (H2020 RIA)

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**Ingerid Reintertsen**  
**DEPARTMENT OF CIRCULATION AND MEDICAL IMAGING**  
**FACULTY OF MEDICINE AND HEALTH SCIENCES**  

**Expertise**  
Medical image analysis, image guided surgery, neurosurgery, machine learning

**Relevant projects**  
Interdisciplinary research, project leader

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**Oluf D. Røe**  
**DEPARTMENT OF CLINICAL AND MOLECULAR MEDICINE**  
**FACULTY OF MEDICINE AND HEALTH SCIENCES**  

**Expertise**  
Board-certified specialist in clinical and radiation oncology in Norway, Sweden, Denmark and Greece. 30+ years of experience as clinician. Main research interests are a combination of clinical and basic cancer research (translational), including biomarkers for early detection of cancer, predictive and prognostic biomarkers, genome-wide analysis mechanisms of treatment resistance and development of tools for lung cancer screening. The research has been focused on mesothelioma, an asbestos-related cancer, lung and gastric cancer.  
Currently he is a senior consultant oncologist at Levanger Hospital, Professor at the Department of Clinical and Molecular Medicine, NTNU and Associate Professor at Aalborg University Hospital, Denmark.  

**E.g.** polygenic risk models for cancer  
**Works clinically**

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**Contact information**  
**Paul Jarle Mork**  
paul.mork@ntnu.no  
+47 90104615

**Relevant industry contacts**  
mHealth industry (e.g., Trade eXpansion in Denmark)

**Contact information**  
**Ingerid Reintertsen**  
ingerid.reinertsen@ntnu.no  
+47 90212159

**Relevant industry contacts**  
Works clinically

**Contact information**  
**Oluf D. Røe**  
oluf.roe@ntnu.no  
+47 95432496

**Relevant industry contacts**  
Funding for the Biannual International NTNU Symposium on Clinical Biomarkers of Cancer from several medicinal industry companies, including BMS, Astra Zeneca and Pfizer.
Nils Kristian Skjærvold
DEPARTMENT OF CIRCULATION AND MEDICAL IMAGING
FACULTY OF MEDICINE AND HEALTH SCIENCES

Contact information
nils.k.skjervold@ntnu.no
+47 99375774

Relevant industry contacts
Disruptive Technologies, Glucoset

Works clinically

Expertise
I am an anesthesiologist and intensivist, a researcher and med.tech entrepreneur at NTNU/St Olavs Hospital. Main research interests and expertise in:
- development and testing of in-vivo sensor technology (glucose, photo spectrometry, accelerometers...)
- studies in large animals
- clinical studies (including iso 14155:2011 Medical Device Trial studies)
- complex physiological regulation
- circulation
- ML-based prediction models (Including understandable models)

Relevant projects
Continuous glucose monitoring and closed loop regulation Complex physiological regulation Continuous, non-invasive tracking og vital variables

Roger André Søraa
DEPARTMENT OF INTERDISCIPLINARY STUDIES OF CULTURE
FACULTY OF HUMANITIES

Contact information
roger.soraa@ntnu.no

Relevant industry contacts
LEE project, Norwegian robot companies.

Expertise
Automation, robotization, and digitalization of society – how humans and technology relate to each other. Søraa is particularly interested in the social domestication of technology, e.g. research on hospital robots and gerontechnology of the home. Robotization of gerontechnologies, transport and agriculture. Automation of work and practises. Digitalization of society and social media. Japan, Korea, and Asian digitalization.

Relevant projects

Beatrix Vereijken
DEPARTMENT OF NEUROMEDICINE AND MOVEMENT SCIENCE
FACULTY OF MEDICINE AND HEALTH SCIENCES

Contact information
beatrix.vereijken@ntnu.no

Expertise
Active ageing, activity monitoring, exergaming, gait analysis, medical technologies.

Relevant projects
IMI2 JU-funded Mobilise-D (2019-2024)
H2020-funded PreventIT (2016-2019)
Exergaming for active ageing (2016- )
Beate André  
**DEPARTMENT OF PUBLIC HEALTH AND NURSING**  
**FACULTY OF MEDICINE AND HEALTH SCIENCES**

**Contact information**  
beate.andre@ntnu.no

**Expertise**  
Nursing, health, health promotion, palliative care, caring for elderly, conditions for health care workers. Health promotion

**Relevant projects**  
Education and supervision in community health care; implementation of evidence based practice in nursing.

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Duan Chen  
**DEPARTMENT OF CLINICAL AND MOLECULAR MEDICINE**  
**FACULTY OF MEDICINE AND HEALTH SCIENCES**

**Contact information**  
duan.chen@ntnu.no  
+47 98409675

**Expertise**  
Tackling diseases and reducing disease burden, such as cancer (stomach, pancreas and liver) and obesity. Areas of expertise include experimental surgery and preclinical trials. Unlocking the full potential of new tools, technologies and digital solutions for personalized cancer medicine. Areas of expertise include multi-omics, data/pathway mining, computational drug discovery, and validations in silico, in vitro and in vivo. Validation. Animal experimentation.

**Relevant projects**
1. Nerve-cancer crosstalk with experience in animal modeling, preclinical trials  
2. Digital twin for personalized cancer medicine (including immunotherapies) with experience in pre-clinical and clinical validation

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Sílvia Coutinho  
**DEPARTMENT OF CLINICAL AND MOLECULAR MEDICINE**  
**FACULTY OF MEDICINE AND HEALTH SCIENCES**

**Contact information**  
s.r.coutinho@gmail.com  
+47 98639859

**Expertise**  
Obesity; Nutrition; Appetite; Weight loss; Metabolism

**Relevant projects**  
Metabolism changes at level of appetite system and energy expenditure during weight loss maintenance
Berit Johansen  
DEPARTMENT OF BIOLOGY  
FACULTY OF NATURAL SCIENCES

Expertise
Inflammatory mechanisms, Fibrosis mechanisms, chronic diseases, cancer (skin and leukemia), antiinflammatory drug development, small molecule drugs, lipid signalling.

Optimal diet macronutrient composition in prevention of metabolic inflammation.

Relevant projects
Lipid signalling, antiinflammatory drug development, inflammatory/fibrosis mechanisms in chronic kidney disease, skin and leukemia.

Contact information
berit.johansen@ntnu.no
+47 91897000

Steinar Krogstad  
DEPARTMENT OF PUBLIC HEALTH AND NURSING  
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Social epidemiology
Public Health Psychiatry

Relevant projects
The HUNT Study, Norway

Contact information
steinak@ntnu.no
+47 95219227

Works clinically

Trine Moholdt  
DEPARTMENT OF CIRCULATION AND MEDICAL IMAGING  
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Prevention of lifestyle related chronic diseases through diet-exercise interventions.

Relevant projects

Contact information
trine.moholdt@ntnu.no
+47 97098594
Emre Yaksi

**Expertise**
Zebrafish, microscopy, functional brain imaging, neurophysiology, optogenetics, animal behavior, data analysis, epilepsy, mood disorders, feeding, anxiety, defensive behaviors, chemosensory systems, learning

**Relevant projects**
Our lab is interested in how brain circuits are assembled and function in health and disease. Specifically, we investigate how animals’ internal states and sensory computations are modulated by feeding, defensive behaviors and learning. To achieve this, we focus on cortico-limbic circuits and chemosensory systems, due to their direct relations to emotions and adaptive behaviors. We also investigate how the properties of these circuits are altered in zebrafish models of neurological diseases, with a specific focus on epilepsy, anxiety and neurodevelopmental disorders. Since 2011, our lab has won 5.3 Million euros from competitive funding agencies such as the ERC, NFR, FWO, etc.

Frode Stenseng

**Expertise**
Mental and physical health, new technologies, self-regulation, learning, education, social inequality.

**Relevant projects**
DROPOT, RCN-project (12. mil.), project-leader (funded in 2020). Plus two more RCN-projects funded in 2021 (NTNU and DMMH), partner.
Kerstin Bach
DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Expertise
Artificial Intelligence, Machine Learning, Case-Based Reasoning, eHealth, Intelligent Decision Support Systems

Relevant projects
selfBACK (2016-2021, project manager)
Back-UP (2018-2021, partner)

Ingrid Eftedal
DEPARTMENT OF CIRCULATION AND MEDICAL IMAGING
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Baromedicine and extreme environmental exposures. Research group leader NTNU Barophysiology / baromedicine group since 2011. Current research focuses on how the body reacts and adjusts to the underwater world in diving, with focus on oxygen effects and hematologic, microbiome, immune and inflammatory responses in humans and animal models.

Relevant projects
Current main project "Dealing with Depths: System Biological Approach to Health and Acclimatization in Professional Saturation Diving". Prior post doc École Supérieure de Biotechnologie de Strasbourg (1994-5), head of the St. Olav’s University Hospital Medical genetics Dept (2001-9), and vice dean research at Nord University Faulty of Nursing and health sciences (2017-8), and leader of baromedical projects at NTNU.

Berit Johansen
DEPARTMENT OF BIOLOGY
FACULTY OF NATURAL SCIENCES

Expertise
Inflammatory mechanisms, Fibrosis mechanisms, chronic diseases, cancer (skin and leukemia), antiinflammatory drug development, small molecule drugs, lipid signalling. Optimal diet macronutrient composition in prevention of metabolic inflammation

Relevant projects
Lipid signalling, antiinflammatory drug development, inflammatory/fibrosis mechanisms in chronic kidney disease, skin and leukemia
Martin Kuiper

DEPARTMENT OF BIOLOGY
FACULTY OF NATURAL SCIENCES

Contact information
martin.kuiper@ntnu.no
+47 91897322

Relevant industry contacts
Collaboration with Coegin pharma

Expertise
Computational modelling of cell systems, predicting the effect of drugs and drug combinations.
Detailed logical model of macrophage polarization and its role in inflammation.

Relevant projects
DrugLogics, Coordination of EU and ERANet projects
ASSOCIATED PROFESSORS

Destination 2: Living and working in a health-promoting environment

Here you can find potential NTNU professors and employees that are interested in collaborations on destination 2.

The following pages are sorted into the calls for the destination presented in cluster 1. To simplify your navigation among available expertises per topic, the list of topics have been made clickable.
HORIZON-HLTH-2022-ENVHLTH-04-01 Methods for assessing health-related costs to environmental stressors
Beate André
DEPARTMENT OF PUBLIC HEALTH AND NURSING
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Nursing, health, health promotion, palliative care, caring for elderly, conditions for health care workers. Health promotion

Relevant projects
Education and supervision in community health care; implementation of evidence based practice in nursing.

Contact information
beate.andre@ntnu.no

Mohammad Hajmohammadian Baghban
DEPARTMENT OF MANUFACTURING AND CIVIL ENGINEERING
FACULTY OF ENGINEERING

Expertise
Digitalization, Building physics, building materials, Sustainability.

Relevant projects
Hygrothermal properties of building elements for health issues Health, Safety and Environment in building and construction Digitalization Machine learning

Contact information
mohammad.baghban@ntnu.no
+47 48351726

Relevant industry contacts
A large number of companies in building and construction.

Duan Chen
DEPARTMENT OF CLINICAL AND MOLECULAR MEDICINE
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Tackling diseases and reducing disease burden, such as cancer (stomach, pancreas and liver) and obesity. Areas of expertise include experimental surgery and preclinical trials. Unlocking the full potential of new tools, technologies and digital solutions for personalized cancer medicine. Areas of expertise include multi-omics, data/pathway mining, computational drug discovery, and validations in silico, in vitro and in vivo. Validation. Animal experimentation.

Relevant projects
1. Nerve-cancer crosstalk with experience in animal modeling, preclinical trials
2. Digital twin for personalized cancer medicine (including immunotherapies) with experience in pre-clinical and clinical validation

Contact information
duan.chen@ntnu.no
+47 98409675
Steinar Krogstad
DEPARTMENT OF PUBLIC HEALTH AND NURSING
FACULTY OF MEDICINE AND HEALTH SCIENCES

Contact information
steinak@ntnu.no
+47 95219227

Works clinically

Expertise
Social epidemiology
Public Health Psychiatry

Relevant projects
The HUNT Study, Norway

Maryam Ziaei
KAVLI INSTITUTE FOR SYSTEMS NEUROSCIENCE
FACULTY OF MEDICINE AND HEALTH SCIENCES

Contact information
maryam.ziaei@ntnu.no

Expertise
Aging neuroscience and mental health. I have more than 10 years of experience studying emotion and mental health in healthy and clinical populations. The overarching aim of my research is to understand underlying biological and cognitive factors contributing to mental health issues in healthy aging and dementia using novel and state-of-the-art imaging and daily-life sampling methods.

Relevant projects
I have more than 10 years of experience in leading neuroscientific research in the field of aging and cognitive neuroscience. The primary goal of my group is to uncover the biological, behavioral, and cognitive bases of mental health in aging.
ASSOCIATED PROFESSORS

Destination 3: Tackling diseases and reducing disease burden

Here you can find potential NTNU professors and employees that are interested in collaborations on destination 3.

The following pages are sorted into the calls for the destination presented in cluster 1. To simplify your navigation among available expertises per topic, the list of topics have been made clickable.
HORIZON-HLTH-2022-DISEASE-06-02-two-stage Pre-clinical development of the next generation of immunotherapies for diseases or disorders with unmet medical needs

HORIZON-HLTH-2022-DISEASE-06-04-two-stage Development of new effective therapies for rare diseases

HORIZON-HLTH-2022-DISEASE-07-02 Pandemic Preparedness - Placeholder

HORIZON-HLTH-2022-DISEASE-07-03 Non-communicable diseases risk reduction in adolescence and youth

HORIZON-HLTH-2022-DISEASE-03-01 European partnership fostering a European Research Area (ERA) for health research - Placeholder
Duan Chen

DEPARTMENT OF CLINICAL AND MOLECULAR MEDICINE
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Tackling diseases and reducing disease burden, such as cancer (stomach, pancreas and liver) and obesity. Areas of expertise include experimental surgery and preclinical trials. Unlocking the full potential of new tools, technologies and digital solutions for personalized cancer medicine. Areas of expertise include multi-omics, data/pathway mining, computational drug discovery, and validations in silico, in vitro and in vivo.
Validation.
Animal experimentation.

Relevant projects
1. Nerve-cancer crosstalk with experience in animal modeling, preclinical trials
2. Digital twin for personalized cancer medicine (including immunotherapies) with experience in pre-clinical and clinical validation

Asgeir Kobro-Flatmoen

KAVALI INSTITUTE FOR SYSTEMS NEUROSCIENCE
FACULTY OF MEDICINE AND HEALTH SCIENCES

Contact information
asgeir.kobro-flatmoen@ntnu.no
+47 73597853

Expertise
I hold a PhD in Neuroscience on the topic of Alzheimer’s disease cell-specific vulnerability, from the Kavli Institute for Systems Neuroscience. I now work as a researcher at the K.G. Jebsen Center for Alzheimer’s Disease (NTNU). I am interested in brain function and malfunction and have a particular interest in neurodegeneration. Currently, I focus on the question of how and why Alzheimer’s disease develops, a disease known to heavily target the medial temporal lobe memory system.

Immunotherapies against novel targets in Alzheimer’s disease pre-clinical stages.

Relevant projects
Pre-clinical pathological interactions of proteins in Alzheimer’s disease in vivo Culturing of hippocampal/parahippocampal adult neurons with Alzheimer’s-related pathology.
HORIZON-HLTH-2022-DISEASE-06-04-TWO-STAGE DEVELOPMENT OF NEW EFFECTIVE THERAPIES FOR RARE DISEASES

Marcos X. Álvarez Cid
DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Expertise
Medical imaging Image Quality Deep Learning Hyperspectral Imaging Colour and Texture Analysis Clinical Decision Support Systems 3D Reconstruction Soft-tissue navigation Fast computation and visualization of resection suggestions

Relevant projects
ALAMEDA – Bridging the Early Diagnosis and Treatment Gap of Brain Diseases via Smart, Connected, Proactive and Evidence-based Technological Interventions, funded under H2020-SC1-DTH-02-2020.

Contact information
marcos.alvarez@ntnu.no
+47 73413034

Bjørn Henning Grønberg
DEPARTMENT OF CLINICAL AND MOLECULAR MEDICINE
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Bjørn is a physician and specialist in medical oncology and radiotherapy. He is Professor at NTNU’s Department of Clinical and Molecular Medicine. He is also Unit Leader for translational cancer research and cancer and palliative care, as well as Consultant in Oncology at St. Olavs Hospital, Trondheim University Hospital. Bjørn’s primary focus is lung cancer. He has led several national and international multicentric randomized intervention trials. Other research interests include brain tumors, health related quality of life, body composition and geriatric oncology.

Relevant projects

Contact information
bjorn.h.gronberg@ntnu.no
+47 47297878

Berit Johansen
DEPARTMENT OF BIOLOGY
FACULTY OF NATURAL SCIENCES

Expertise
Inflammatory mechanisms, Fibrosis mechanisms, chronic diseases, cancer (skin and leukemia), antiinflammatory drug development, small molecule drugs, lipid signalling.

Relevant projects
Lipid signalling, antiinflammatory drug development, inflammatory/fibrosis mechanisms in chronic kidney disease, skin and leukemia

Contact information
berit.johansen@ntnu.no
+47 91897000

Relevant industry contacts
CSO in Coegin Pharma.
Ioanna Sandvig

Department of Neuromedicine and Movement Science Faculty of Medicine and Health Sciences

Expertise
Neuroscience, neuroplasticity, computational neuroscience, CNS disease modelling, CNS damage and repair, neurodegenerative disease, stroke, translational neuroscience

Relevant projects
Sandvig Group – Integrative Neuroscience
The group integrates advanced interdisciplinary theoretical concepts and state-of-the-art methodology to model and investigate neural network behaviour in healthy and perturbed conditions, both in preclinical models and in the clinic.

Contact information
ioanna.sandvig@ntnu.no
+47 47376312

Emre Yaksi

Kavli Institute for Systems Neuroscience Faculty of Medicine and Health Sciences

Expertise
Zebrafish, microscopy, functional brain imaging, neurophysiology, optogenetics, animal behavior, data analysis, epilepsy, mood disorders, feeding, anxiety, defensive behaviors, chemosensory systems, learning

Relevant projects
Our lab is interested in how brain circuits are assembled and function in health and disease. Specifically, we investigate how animals’ internal states and sensory computations are modulated by feeding, defensive behaviors and learning. To achieve this, we focus on cortico-limbic circuits and chemosensory systems, due to their direct relations to emotions and adaptive behaviors. We also investigate how the properties of these circuits are altered in zebrafish models of neurological diseases, with a specific focus on epilepsy, anxiety and neurodevelopmental disorders. Since 2011, our lab has won 5.3 Million euros from competitive funding agencies such as the ERC, NFR, FWO, etc.

Contact information
iemre.yaksi@ntnu.no

Nathalie Jurisch-Yaksi

Department of Clinical and Molecular Medicine Faculty of Medicine and Health Sciences

Expertise
My research program aims at understanding cellular and molecular mechanisms underlying the development, physiology and diseases of the brain. In my laboratory, we are particularly interested in one subcellular structure, the cilium, which play both signaling and mechanical functions, and in astroglia, which is the main non-neuronal cell type of the brain. To this end, we use a multidisciplinary approach combining state-of-the-art cellular and molecular biology, genetics, microscopy, fluid dynamics, neural imaging, behavioral assays and quantitative data analysis. We mainly employ zebrafish due to its transparent body and brain that are amenable to optical imaging and genetic manipulations.

Identification of molecular and cellular mechanisms involved in diseases progression and in vivo drug screening for rare diseases associated with cilia dysfunction (e.g. ciliopathy).

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Steinar Krogstad
DEPARTMENT OF PUBLIC HEALTH AND NURSING
FACULTY OF MEDICINE AND HEALTH SCIENCES

Contact information
steinak@ntnu.no
+47 95219227

Works clinically

Expertise
Social epidemiology
Public
Health Psychiatry

Relevant projects
The HUNT Study, Norway
Steinar Krogstad
DEPARTMENT OF PUBLIC HEALTH AND NURSING
FACULTY OF MEDICINE AND HEALTH SCIENCES

Contact information
steinak@ntnu.no
+47 95219227

Works clinically

Expertise
Social epidemiology
Public
Health Psychiatry

Relevant projects
The HUNT Study, Norway
Sílvia Coutinho

DEPARTMENT OF CLINICAL AND MOLECULAR MEDICINE
FACULTY OF MEDICINE AND HEALTH SCIENCES

Contact information
s.r.coutinho@gmail.com
+47 98639859

Expertise
Obesity; Nutrition; Appetite; Weight loss; Metabolism

Relevant projects
Metabolism changes at level of appetite system and energy expenditure during weight loss maintenance

Ingrid Eftedal

DEPARTMENT OF CIRCULATION AND MEDICAL IMAGING
FACULTY OF MEDICINE AND HEALTH SCIENCES

Contact information
ingrid.eftedal@ntnu.no

Relevant industry contacts
Research partnership with TechnipFMC (since 2014) and Equinor (since 2012) funded via the Norwegian Research Council.

Expertise
Baromedicine and extreme environmental exposures. Research group leader NTNU Barophysiology / baromedicine group since 2011. Current research focuses on how the body reacts and adjusts to the underwater world in diving, with focus on oxygen effects and hematologic, microbiome, immune and inflammatory responses in humans and animal models.

Relevant projects
Current main project “Dealing with Depths: System Biological Approach to Health and Acclimatization in Professional Saturation Diving”. Prior post doc École Supérieure de Biotechnologie de Strasbourg (1994-5), head of the St. Olav’s University Hospital Medical genetics Dept (2001-9), and vice dean research at Nord University Faulty of Nursing and health sciences (2017-8), and leader of baromedical projects at NTNU.

Ionna Sandvig

DEPARTMENT OF NEUROMEDICINE AND MOVEMENT SCIENCE
FACULTY OF MEDICINE AND HEALTH SCIENCES

Contact information
ioanna.sandvig@ntnu.no
+47 47376312

Expertise
Neuroscience, neuroplasticity, computational neuroscience, CNS disease modelling, CNS damage and repair, neurodegenerative disease, stroke, translational neuroscience

Relevant projects
Sandvig Group – Integrative Neuroscience
The group integrates advanced interdisciplinary theoretical concepts and state-of-the-art methodology to model and investigate neural network behaviour in healthy and perturbed conditions, both in preclinical models and in the clinic.
ASSOCIATED PROFESSORS

Destination 4: Ensuring access to innovative, sustainable and high-quality health care

Here you can find potential NTNU professors and employees that are interested in collaborations on destination 4.

The following pages are sorted into the calls for the destination presented in cluster 1. To simplify your navigation among available expertises per topic, the list of topics have been made clickable.
HORIZON-HLTH-2022-CARE-08-02: Pre-comercial research and innovation procurement (PCP) for building the resilience of health and care systems in the context of recovery.

HORIZON-HLTH-2022-CARE-08-03: Public procurement of innovative solutions (PPI) for building resilience of health care systems in the context of recovery.

HORIZON-HLTH-2022-CARE-10-01: European Partnership on Transforming Health and Care Systems
Odin Hjemdal

DEPARTMENT OF PSYCHOLOGY
FACULTY OF SOCIAL AND EDUCATIONAL SCIENCES

Expertise
Mental health at large, from adolescents to adulthood. What contributes to promote, conserve and regain mental health. Measurement and evaluation of resilience. Research design related to prevention and promotion and evaluations of interventions. Clinical psychology and evaluations of clinical interventions. Psychotherapy research with main competence within Cognitive Behavioral Therapy (CBT) and Metacognitive Therapy (MCT).

Relevant projects
Universal Preventive Resilience Intervention Globally implemented in schools to improve and promote mental Health for Teenagers. PI for several RCTs related to prevention and promotion of mental health as well as treatment of mental disorders.

Contact information
odin.hjemdal@ntnu.no
+47 73597889

Relevant industry contacts
I have research collaboration with the public health sector both within specialized services and at municipality services, both private and public.

Works clinically
Odin Hjemdal

DEPARTMENT OF PSYCHOLOGY
FACULTY OF SOCIAL AND EDUCATIONAL SCIENCES

Contact information
odin.hjemdal@ntnu.no
+47 73597889

Relevant industry contacts
I have research collaboration with the public health sector both within specialized services and at municipality services, both private and public.

Works clinically

Expertise
Mental health at large, from adolescents to adulthood. What contributes to promote, conserve and regain mental health. Measurement and evaluation of resilience. Research design related to prevention and promotion and evaluations of interventions. Clinical psychology and evaluations of clinical interventions. Psychotherapy research with main competence within Cognitive Behavioral Therapy (CBT) and Metacognitive Therapy (MCT).

Relevant projects
Universal Preventive Resilience Intervention Globally implemented in schools to improve and promote mental Health for Teenagers.
PI for several RCTs related to prevention and promotion of mental health as well as treatment of mental disorders.
Odin Hjemdal
DEPARTMENT OF PSYCHOLOGY
FACULTY OF SOCIAL AND EDUCATIONAL SCIENCES

Contact information
odin.hjemdal@ntnu.no
+47 73597889

Relevant industry contacts
I have research collaboration with the public health sector both within specialized services and at municipality services, both private and public.

Works clinically

Expertise
Mental health at large, from adolescents to adulthood. What contributes to promote, conserve and regain mental health. Measurement and evaluation of resilience. Research design related to prevention and promotion and evaluations of interventions. Clinical psychology and evaluations of clinical interventions. Psychotherapy research with main competence within Cognitive Behavioral Therapy (CBT) and Metacognitive Therapy (MCT).

Relevant projects
Universal Preventive Resilience Intervention Globally implemented in schools to improve and promote mental Health for Teenagers.

PI for several RCTs related to prevention and promotion of mental health as well as treatment of mental disorders.
Here you can find potential NTNU professors and employees that are interested in collaborations on destination 5.

The following pages are sorted into the calls for the destination presented in cluster 1. To simplify your navigation among available expertises per topic, the list of topics have been made clickable.
DESTINATION 5 - CALLS

HORIZON-HLTH-2022-TOOL-11-01 Optimising effectiveness in patients of existing prescription drugs for major diseases (except cancer) with the use of biomarkers

HORIZON-HLTH-2022-TOOL-11-02 New methods for the effective use of real-world data and/or synthetic data in regulatory decision-making and/or in health technology assessment

HORIZON-HLTH-2022-TOOL-12-01-two-stage Computational models for new patient stratification strategies
Ionna Sandvig

**DEPARTMENT OF NEUROMEDICINE AND MOVEMENT SCIENCE FACULTY OF MEDICINE AND HEALTH SCIENCES**

**Contact information**
ioanna.sandvig@ntnu.no
+47 47376312

**Expertise**
Neuroscience, neuroplasticity, computational neuroscience, CNS disease modelling, CNS damage and repair, neurodegenerative disease, stroke, translational neuroscience

**Relevant projects**
Sandvig Group – Integrative Neuroscience
The group integrates advanced interdisciplinary theoretical concepts and state-of-the-art methodology to model and investigate neural network behaviour in healthy and perturbed conditions, both in preclinical models and in the clinic.

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Roger André Søraa

**DEPARTMENT OF EDUCATION AND LIFELONG LEARNING FACULTY OF SOCIAL AND EDUCATIONAL SCIENCES**

**Contact information**
roger.soraa@ntnu.no
90554746

**Relevant industry contacts**
A health technology firm; Myworkout. Also VitalThings, producing e.g. the sleep radar Somnofy.

**Expertise**
Mental and physical health, new technologies, self-regulation, learning, education, social inequality.

**Relevant projects**
Current projects:
- DROPOUT, RCN-project (12. mil.), project-leader (funded in 2020). Pluss two more RCN-projects funded in 2021 (NTNU and DMMH), partner.

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Frode Stenseng

**DEPARTMENT OF EDUCATION AND LIFELONG LEARNING FACULTY OF SOCIAL AND EDUCATIONAL SCIENCES**

**Contact information**
frode.stenseng@ntnu.no
90554746

**Relevant industry contacts**
A health technology firm; Myworkout. Also VitalThings, producing e.g. the sleep radar Somnofy.

**Expertise**
Mental and physical health, new technologies, self-regulation, learning, education, social inequality.

**Relevant projects**
Current projects:
- Past projects: Energy-SHIFT (2019-2021), eWare (2017-2021), Crafting Climate transitions from below (2014-2018),
- RoboCare (2016), SHAPE energy (2017-2019),
Therese Bergh Nitter
DEPARTMENT OF INDUSTRIAL ECONOMICS AND TECHNOLOGY
MANAGEMENT
FACULTY OF ECONOMICS AND MANAGEMENT

Contact information
therese.nitter@ntnu.no
+47 41728412

Expertise
Air pollution, exposure assessment, statistical analysis of repeated measures (parametric and non-parametric), sampling strategies, measurements of particles.

Relevant projects
Exposure to chemical contaminants in swimming pool facilities, inflammatory effects caused by exposure to different types of stone aggregates used in asphalt, coal exposure.

Kathrine Røe Redalen
DEPARTMENT OF PHYSICS
FACULTY OF NATURAL SCIENCES

Contact information
kathrine.redalen@ntnu.no
+47 92437646

Expertise
Quantitative imaging (PET and MRI) of cancer and normal tissue in experimental models and patients, in particular related to radiotherapy and proton therapy. Radiation biology and tumor microenvironment research in vitro and in vivo models.

Relevant projects
Most recent grants as PI: CURIE - Cancer imaging by funcntional magnetic resonance for Radiotherapy Individualisation and Evaluation (Norwegian Cancer Society, 2019 – 2023); Improved strategies for radiotherapy of prostate cancer utilizing proton therapy and advanced imaging modalities (Helse Midt-Norge, 2018 – 2024); Development of Cu-64 radiopharmaceuticals for positron emission tomography (PET) and treatment of hypoxic, aggressive cancer (Helse Midt-Norge, 2019 – 2022).
Oluf D. Røe

DEPARTMENT OF CLINICAL AND MOLECULAR MEDICINE
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Board-certified specialist in clinical and radiation oncology in Norway, Sweden, Denmark and Greece. 30+ years of experience as clinician. Main research interests are a combination of clinical and basic cancer research (translational), including biomarkers for early detection of cancer, predictive and prognostic biomarkers, genome-wide analysis mechanisms of treatment resistance and development of tools for lung cancer screening. The research has been focused on mesothelioma, an asbestos-related cancer, lung and gastric cancer. Currently he is a senior consultant oncologist at Levanger Hospital, Professor at the Department of Clinical and Molecular Medicine, NTNU and Associate Professor at Aalborg University Hospital, Denmark.

Relevant projects
Current research is leading discovery and validation of pre-diagnostic biomarkers in serum for lung cancer, the EARLYSCREEN project. Development of a clinical calculator and a polygenic risk model for lung cancer. This study is based on the HUNT, CONOR and Tromsø studies and biobanks. Moreover he is heading an international study on biomarkers for mesothelioma, the BAP1-study.

Contact information
oluf.roe@ntnu.no
+47 95432496

Relevant industry contacts
Funding for the Biannual International NTNU Symposium on Clinical Biomarkers of Cancer from several medicinal industry companies, including BMS, Astra Zeneca and Pfizer.

Works clinically

Ionna Sandvig

DEPARTMENT OF NEUROMEDICINE AND MOVEMENT SCIENCE FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Neuroscience, neuroplasticity, computational neuroscience, CNS disease modelling, CNS damage and repair, neurodegenerative disease, stroke, translational neuroscience

Relevant projects
Sandvig Group – Integrative Neuroscience
The group integrates advanced interdisciplinary theoretical concepts and state-of-the-art methodology to model and investigate neural network behaviour in healthy and perturbed conditions, both in preclinical models and in the clinic.

Contact information
ioanna.sandvig@ntnu.no
+47 47376312
Beathe Sitter
DEPARTMENT OF CIRCULATION AND MEDICAL IMAGING
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Beathe completed a PhD in Medical Technology and is experienced in MR metabolomics of solid and fluid tissues. She has extensive expertise in biomarkers, MR spectroscopy and imaging, metabolomics, metabolic profiling, inflammatory diseases, psoriasis, psoriatic arthritis and cancer. Her main current research interest lies in the molecules underlying inflammatory diseases, including cytokines, metabolites and lipoproteins. Particularly, Beathe and her team aim to investigate how diet and weight-loss impact inflammation and disease activity in psoriasis patients.

Relevant projects
Beathe has secured several research grants, including from DIKU (PI, 2019), Erasmus+ (PI, 2018), Sør-Trøndelag University College (PI, 2014), Central Norway Regional Health Authority (PI, 2011) and The Research Council of Norway (co-writer, 2006).
HORIZON-HLTH-2022-TOOL-11-02 NEW METHODS FOR THE EFFECTIVE USE OF REAL-WORLD DATA AND/OR SYNTHETIC DATA IN REGULATORY DECISION-MAKING AND/OR IN HEALTH TECHNOLOGY ASSESSMENT

Beate André
DEPARTMENT OF PUBLIC HEALTH AND NURSING
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Nursing, health, health promotion, palliative care, caring for elderly, conditions for health care workers. Health promotion

Relevant projects
Education and supervision in community health care; implementation of evidence based practice in nursing.

Kerstin Bach
DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Expertise
Artificial Intelligence, Machine Learning, Case-Based Reasoning, eHealth, Intelligent Decision Support Systems

Relevant projects
selfBACK (2016-2021, project manager)
Back-UP (2018-2021, partner)

Tone Frost Bathen
DEPARTMENT OF CIRCULATION AND MEDICAL IMAGING
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Cancer, imaging (MRI/PET clinical and preclinical), metabolomics, AI, multivariate analysis.

Relevant projects
PROVIZ - NFR
180N- Trond Mohn Foundation
NICI - FET project (WP leader)
BRIMM - NIH (partner, data provider)
various imaging/molecular projects
samarbeidsorganet

Contact information
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Contact information
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Contact information
tone.f.bathen@ntnu.no
+47 95021097

Relevant industry contacts
Telecommunication, Finances, Life Sciences

Relevant industry contacts
Collaboration agreement with Bruker Biospin GmBH. Development/testing of metabolomics analytical tools.
HORIZON-HLTH-2022-TOOL-11-02 NEW METHODS FOR THE EFFECTIVE USE OF REAL-WORLD DATA AND/OR SYNTHETIC DATA IN REGULATORY DECISION-MAKING AND/OR IN HEALTH TECHNOLOGY ASSESSMENT

Marcos X. Álvarez Cid
DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Expertise
Medical imaging Image Quality Deep Learning Hyperspectral Imaging Colour and Texture Analysis Clinical Decision Support Systems 3D Reconstruction Soft-tissue navigation Fast computation and visualization of resection suggestions

Relevant projects
ALAMEDA – Bridging the Early Diagnosis and Treatment Gap of Brain Diseases via Smart, Connected, Proactive and Evidence-based Technological Interventions, funded under H2020-SC1-DTH-02-2020.

Contact information
marcos.alvarez@ntnu.no +47 73413034

Relevant industry contacts
Close collaboration with OUH (Oslo University Hospital) and Sykehuset Innlandet (Innlandet Hospital Trust).

Martin Kuiper
DEPARTMENT OF BIOLOGY
FACULTY OF NATURAL SCIENCES

Expertise
Computational modelling of cell systems, predicting the effect of drugs and drug combinations.

Relevant projects
DrugLogics, Coordination of EU and ERANet projects

Contact information
martin.kuiper@ntnu.no +47 91897322

Relevant industry contacts
Collaboration with Coegin pharma

Marta Molinas
DEPARTMENT OF ENGINEERING CYBERNETICS
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Expertise
Biotechnology, Electroencephalography applications (medical and non-medical), EEG brain source imaging, wearable EEG, Non-linear and non-stationary signal analysis.

Relevant projects
EEG channel reduction for EEG source reconstruction applied to sleep research (REM sleep), epilepsy, cognitive development, subject identification and emotion related issues.

Contact information
marta.molinas@ntnu.no +47 94287670

Relevant industry contacts
Japanese industries (EEG sensor related, and sleep related technologies), Mentalab (wearable EEG), Mbraintrain (mbt, Wearable EEG)
Therese Bergh Nitter
DEPARTMENT OF INDUSTRIAL ECONOMICS AND TECHNOLOGY MANAGEMENT
FACULTY OF ECONOMICS AND MANAGEMENT

Expertise
Air pollution, exposure assessment, statistical analysis of repeated measures (parametric and non-parametric), sampling strategies, measurements of particles.

Relevant projects
Exposure to chemical contaminants in swimming pool facilities, inflammatory effects caused by exposure to different types of stone aggregates used in asphalt, coal exposure.

Contact information
therese.nitter@ntnu.no
+47 41728412

Relevant industry contacts
Norwegian Institute of Public Health, Trondheim Municipality, State Highways Authority, the Norwegian Labor Inspection Authority, Department of Occupational Medicine at St. Olav’s University Hospital.

Oluf D. Røe
DEPARTMENT OF CLINICAL AND MOLECULAR MEDICINE FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Board-certified specialist in clinical and radiation oncology in Norway, Sweden, Denmark and Greece. 30+ years of experience as clinician. Main research interests are a combination of clinical and basic cancer research (translational), including biomarkers for early detection of cancer, predictive and prognostic biomarkers, genome-wide analysis mechanisms of treatment resistance and development of tools for lung cancer screening. The research has been focused on mesothelioma, an asbestos-related cancer, lung and gastric cancer. Currently he is a senior consultant oncologist at Levanger Hospital, Professor at the Department of Clinical and Molecular Medicine, NTNU and Associate Professor at Aalborg University Hospital, Denmark.

Relevant projects
Current research is leading discovery and validation of pre-diagnostic biomarkers in serum for lung cancer, the EARLYSCREEN project. Development of a clinical calculator and a polygenic risk model for lung cancer. This study is based on the HUNT, CONOR and Tromsø studies and biobanks. Moreover he is heading an international study on biomarkers for mesothelioma, the BAP1-study.

Contact information
oluf.roe@ntnu.no
+47 95432496

Relevant industry contacts
Funding for the Biannual International NTNU Symposium on Clinical Biomarkers of Cancer from several medicinal industry companies, including BMS, Astra Zeneca and Pfizer.

Works clinically
Ionna Sandvig

**DEPARTMENT OF NEUROMEDICINE AND MOVEMENT SCIENCE FACULTY OF MEDICINE AND HEALTH SCIENCES**

**Expertise**
Neuroscience, neuroplasticity, computational neuroscience, CNS disease modelling, CNS damage and repair, neurodegenerative disease, stroke, translational neuroscience

**Relevant projects**
Sandvig Group – Integrative Neuroscience
The group integrates advanced interdisciplinary theoretical concepts and state-of-the-art methodology to model and investigate neural network behaviour in healthy and perturbed conditions, both in preclinical models and in the clinic.

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Frode Stenseng

**DEPARTMENT OF EDUCATION AND LIFELONG LEARNING FACULTY OF SOCIAL AND EDUCATIONAL SCIENCES**

**Expertise**
Mental and physical health, new technologies, self-regulation, learning, education, social inequality.

**Relevant projects**
DROP PUT, RCN-project (12. mil.), project-leader (funded in 2020). Plus two more RCN-projects funded in 2021 (NTNU and DMMH), partner.

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Roger André Søraa

**DEPARTMENT OF INTERDISCIPLINARY STUDIES OF CULTURE FACULTY OF HUMANITIES**

**Expertise**
Automation, robotization, and digitalization of society – how humans and technology relate to each other. Søraa is particularly interested in the social domestication of technology, e.g. research on hospital robots and gerontechnology of the home. Robotization of gerontechnologies, transport and agriculture. Automation of work and practices. Digitalization of society and social media. Japan, Korea, and Asian digitalization.

**Relevant projects**
Current projects:
Beatrix Vereijken
DEPARTMENT OF NEUROMEDICINE AND MOVEMENT SCIENCE
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Active ageing, activity monitoring, exergaming, gait analysis, medical technologies.
Real-world activity monitoring, HTA, usability.

Relevant projects
IMI2 JU-funded Mobilise-D (2019-2024)
H2020-funded PreventIT (2016-2019)
Exergaming for active ageing (2016- )
Kerstin Bach
DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING
Expertise
Artificial Intelligence, Machine Learning, Case-Based Reasoning, eHealth, Intelligent Decision Support Systems
Relevant projects
selfBACK (2016-2021, project manager)
Back-UP (2018-2021, partner)

Tone Frost Bathen
DEPARTMENT OF CIRCULATION AND MEDICAL IMAGING
FACULTY OF MEDICINE AND HEALTH SCIENCES
Expertise
Cancer, imaging (MRI/PET clinical and preclinical), metabolomics, AI, multivariate analysis.
Relevant projects
PROVIZ - NFR
180N - Trond Mohn Foundation
NICI - FET project (WP leader)
BRIMM - NIH (partner, data provider)
various imaging/molecular projects

Duan Chen
DEPARTMENT OF CLINICAL AND MOLECULAR MEDICINE
FACULTY OF MEDICINE AND HEALTH SCIENCES
Expertise
Tackling diseases and reducing disease burden, such as cancer (stomach, pancreas and liver) and obesity. Areas of expertise include experimental surgery and preclinical trials. Unlocking the full potential of new tools, technologies and digital solutions for personalized cancer medicine. Areas of expertise include multi-omics, data/pathway mining, computational drug discovery, and validations in silico, in vitro and in vivo. Validation.
Relevant projects
1. Nerve-cancer crosstalk with experience in animal modeling, preclinical trials
2. Digital twin for personalized cancer medicine (including immunotherapies) with experience in pre-clinical and clinical validation
Marcos X. Álvarez Cid
DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Expertise
- Medical imaging Image Quality Deep Learning
- Hyperspectral Imaging
- Colour and Texture Analysis
- Clinical Decision Support Systems
- 3D Reconstruction
- Soft-tissue navigation
- Fast computation and visualization of resection suggestions

Relevant projects
- ALAMEDA – Bridging the Early Diagnosis and Treatment Gap of Brain Diseases via Smart, Connected, Proactive and Evidence-based Technological Interventions, funded under H2020-SC1-DTH-02-2020.

Kathrine Røe Redalen
DEPARTMENT OF PHYSICS
FACULTY OF NATURAL SCIENCES

Expertise
- Quantitative imaging (PET and MRI) of cancer and normal tissue in experimental models and patients, in particular related to radiotherapy and proton therapy.
- Radiation biology and tumor microenvironment research in vitro and in vivo models.

Relevant projects
- Most recent grants as PI: CURIE - Cancer imaging by fUnctional magnetic resonance for Radiotherapy Individualisation and Evaluation (Norwegian Cancer Society, 2019 – 2023); Improved strategies for radiotherapy of prostate cancer utilizing proton therapy and advanced imaging modalities (Helse Midt-Norge, 2018 – 2024); Development of Cu-64 radiopharmaceuticals for positron emission tomography (PET) and treatment of hypoxic, aggressive cancer (Helse Midt-Norge, 2019 – 2022).
- Grant as WP Leader: Improved diagnostics and treatment through a state-of-the-art multi-center nuclear medicine approach: Applications in cancer and dementia (180N - Norwegian Nuclear Medicine Consortium, Mohn Foundation, 2019 – 2024).
- Grant as co-PI: Creating immunity to eradicate early metastasis in colorectal cancer (Norwegian Cancer Society, 2021-2025).

Ingerid Reintertsen
DEPARTMENT OF CIRCULATION AND MEDICAL IMAGING
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
- Medical image analysis, image guided surgery, neurosurgery, machine learning

Relevant projects
- Interdisciplinary research, project leader
Oluf D. Røe

DEPARTMENT OF CLINICAL AND MOLECULAR MEDICINE
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Board-certified specialist in clinical and radiation oncology in Norway, Sweden, Denmark and Greece. 30+ years of experience as clinician. Main research interests are a combination of clinical and basic cancer research (translational), including biomarkers for early detection of cancer, predictive and prognostic biomarkers, genome-wide analysis mechanisms of treatment resistance and development of tools for lung cancer screening. The research has been focused on mesothelioma, an asbestos-related cancer, lung and gastric cancer. Currently he is a senior consultant oncologist at Levanger Hospital, Professor at the Department of Clinical and Molecular Medicine, NTNU and Associate Professor at Aalborg University Hospital, Denmark.

Relevant projects
Current research is leading discovery and validation of pre-diagnostic biomarkers in serum for lung cancer, the EARLYSCREEN project. Development of a clinical calculator and a polygenic risk model for lung cancer. This study is based on the HUNT, CONOR and Tromsø studies and biobanks. Moreover he is heading an international study on biomarkers for mesothelioma, the BAP1-study.

Contact information
oluf.roe@ntnu.no
+47 95432496

Relevant industry contacts
Funding for the Biannual International NTNU Symposium on Clinical Biomarkers of Cancer from several medicinal industry companies, including BMS, Astra Zeneca and Pfizer.

Works clinically

Ionna Sandvig

DEPARTMENT OF NEUROMEDICINE AND MOVEMENT SCIENCE
FACULTY OF MEDICINE AND HEALTH SCIENCES

Expertise
Neuroscience, neuroplasticity, computational neuroscience, CNS disease modelling, CNS damage and repair, neurodegenerative disease, stroke, translational neuroscience

Relevant projects
Sandvig Group – Integrative Neuroscience
The group integrates advanced interdisciplinary theoretical concepts and state-of-the-art methodology to model and investigate neural network behaviour in healthy and perturbed conditions, both in preclinical models and in the clinic.

Contact information
ioanna.sandvig@ntnu.no
+47 47376312

Works clinically
Nils Kristian Skjærvold
DEPARTMENT OF CIRCULATION AND MEDICAL IMAGING
FACULTY OF MEDICINE AND HEALTH SCIENCES

Contact information
nils.k.skjervold@ntnu.no
+47 99375774

Relevant industry contacts
Disruptive Technologies, Glucoset

Works clinically

Expertise
I am an anesthesiologist and intensivist, a researcher and med.tech entrepreneur at NTNU/St Olavs Hospital. Main research interests and expertise in:
- development and testing of in-vivo sensor technology (glucose, photo spectrometry, accelerometers...)
- studies in large animals
- clinical studies (including iso 14155:2011 Medical Device Trial studies)
- complex physiological regulation
- circulation
- ML-based prediction models (Including understandable models)

Relevant projects
Continuous glucose monitoring and closed loop regulation Complex physiological regulation Continuous, non-invasive tracking og vital variables
ASSOCIATED PROFESSORS

Destination 6: Maintaining an innovative, sustainable and globally competitive health industry

Here you can find potential NTNU professors and employees that are interested in collaborations on destination 6.

The following pages are sorted into the calls for the destination presented in cluster 1. To simplify your navigation among available expertises per topic, the list of topics have been made clickable.
HORIZON-HLTH-2022-IND-13-01 Enhancing Cybersecurity of connected Medical Devices

HORIZON-HLTH-2022-IND-13-03 New payment models for cost-effective and affordable health innovations/new models of pricing

HORIZON-HLTH-2022-IND-13-04 Setting up a European Smart Health Innovation Hub

HORIZON-HLTH-2022-IND-13-05 Setting up a European Electronic Health Record Exchange Format (EEHRxF) Ecosystem
Nils Kristian Skjærvold

Department of Circulation and Medical Imaging
Faculty of Medicine and Health Sciences

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Works clinically
Marcos X. Álvarez Cid
DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Contact information
marcos.alvarez@ntnu.no
+47 73413034

Relevant industry contacts
Close collaboration with OUH (Oslo University Hospital) and Sykehuset Innlandet (Innlandet Hospital Trust).

Expertise
Medical imaging Image
Quality Deep Learning
Hyperspectral Imaging
Colour and Texture Analysis
Clinical Decision Support Systems
3D Reconstruction
Soft-tissue navigation
Fast computation and visualization of resection suggestions

Relevant projects
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Relevant projects
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- Back-UP (2018-2021, partner)

Contact information
kerstin.bach@ntnu.no
+47 93032400

Relevant industry contacts
Telecommunication, Finances, Life Sciences

Odin Hjemdal
DEPARTMENT OF PSYCHOLOGY
FACULTY OF SOCIAL AND EDUCATIONAL SCIENCES

Expertise
Mental health at large, from adolescents to adulthood. What contributes to promote, conserve and regain mental health. Measurement and evaluation of resilience. Research design related to prevention and promotion and evaluations of interventions. Clinical psychology and evaluations of clinical interventions. Psychotherapy research with main competence within Cognitive Behavioral Therapy (CBT) and Metacognitive Therapy (MCT).

Relevant projects
- Universal Preventive Resilience Intervention Globally implemented in schools to improve and promote mental Health for Teenagers.
- PI for several RCTs related to prevention and promotion of mental health as well as treatment of mental disorders.

Contact information
odin.hjemdal@ntnu.no
+47 73597889

Relevant industry contacts
I have research collaboration with the public health sector both within specialized services and at municipality services, both private and public.

Works clinically

Nils Kristian Skjærvold
DEPARTMENT OF CIRCULATION AND MEDICAL IMAGING
FACULTY OF MEDICINE AND HEALTH SCIENCES

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Relevant projects
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