

The NYO3 5th NO-Age/AD meeting and the 1st Norway-UK joint meeting on ageing and dementia

18-19 Sep. 2023

On-line zoom with free registration here https://uiio.zoom.us/webinar/register/WN_XBxzUISqTEOGwnYawHH7BQ

Room: Domus Medica, Auditorium L-200

Address: Sognsvannsveien 9, 0372 Oslo, Norway

Organizers:

Evandro F. Fang (Oslo, Norway)

Lynne Cox (Oxford, UK)

Richard Siow (KCL, UK)

Special co-organizers

Linda Dahlberg (British Embassy Oslo)

He-Ling Wang (Oslo, Norway)

More details



Introduction

Ageing is emerging as a 'pandemic' worldwide, including in Norway and the UK. The increase in numbers of people reaching old age brings formidable healthcare and socioeconomic pressure globally. Dementia is one of the most common age- predisposed diseases, putting substantial pressure on the family and society as a whole. Scientists have shown that if we can slow down the ageing process, we may be able to reduce the chances of getting different diseases, including dementia, while we are ageing. In response to the 'ageing pandemic', collaborative work among stakeholders and countries is in urgent demand.

Both Norway and the UK are in the forefront of ageing and dementia research, and there is a great opportunity to boost the collaborations between the two countries. Correspondingly, UK Research and Innovation (UKRI) and Research Council of Norway (RCN) have signed a Money Follows Cooperation agreement to reduce barriers to cross-border collaboration. This 1st joint meeting will nourish research collaborations, initiate new joint grant opportunities, and propose ideas for preparation of the impending aging burden; our final goal is to nurture an environment conducive to healthy aging in Norway, the UK, and beyond.

The Events

Associate Prof. Evandro Fang (coordinator of the NO-Age and NO-AD networks; UiO and Ahus), Prof. Richard Siow (director of the ageing research at KCL, London, UK), Prof. Lynne Cox (coordinator of the ageing research networks at Oxford, Oriel, Oxford, UK) welcome you to attend a two-day event in Oslo entitled 'The 5th NYO3 NO- Age/AD meeting and the 1st Norway-UK joint meeting on ageing and dementia'.

The event will cover the broad topics of ageing and dementia (especially Alzheimer's and Parkinson's diseases) at molecular, individual, and societal levels. Please see the programme for details. In addition, there will be an open-to-the-public event at Domus Bibliotheca from 19:00-21:00 on the 18th Sep 2023. For the evening event, our confirmed speakers are Dame Linda Partridge DBE FMedSci FRS, Biological Secretary and Vice-President, The Royal Society (UK), and Prof. Ole Petter Ottersen, Neuroscientist and former president/rector of UiO (Norway) and the Karolinska Institute (Sweden), among others.

Registration is not required and attendance at all events will be free of charge.

On-line attendance

https://uio.zoom.us/webinar/register/WN_XBxzUISqTEOGwnYawHH7BQ

The NYO3 5th NO-Age/AD meeting cum the 1st Norway-UK joint meeting on ageing and dementia

18-19 Sep. 2023

Venue: Domus Medica, Auditorium L-200 (Address: Sognsvannsveien 9, 0372 Oslo), University of Oslo, Norway

Organizers: Evandro F. Fang (Oslo, Norway), Lynne Cox (Oxford, UK), Richard Siow (KCL, UK)

On-site and zoom (zoom registration). All welcome, registration free and mandatory (see page 1)



Vilhelm Bohr
Copenhagen, DK



Ole Petter Ottersen
UiO, Norway



Lene J. Rasmussen
Copenhagen, DK



Linda H. Bergersen
UiO, Norway



Sofie Lautrup
UiO, Norway



Jon Storm-Mathisen
UiO, Norway



Hilde Nilsen
UiO, Norway



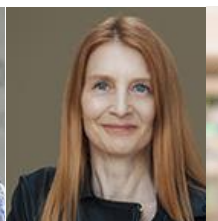
Geir Selbæk
UiO, Norway



Ioannis Sotiropoulos
Athenes, Greece



Linda Partridge
UCL, UK



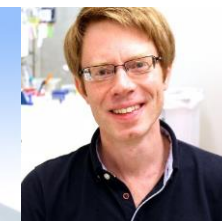
Janna Saija Saarela
UiO, Norway



Koutaro Yokote
Chiba, Japan



Hisaya Kato
Chiba, Japan



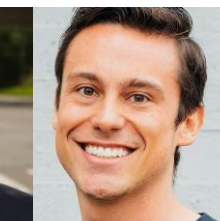
Per Nilsson
Karolinska, Sweden



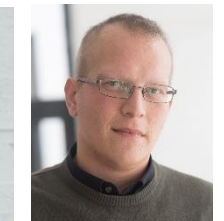
Katerina Veverova
Charles U., CZ



Dag Årslund
KCI/Stavanger



Miguel G. Borda
Stavanger, Norway



Konstantinos Palikaras
Athenes, Greece



Evandro F. Fang
UiO/Ahus, Norway



M. Scheibye-Knudsen
CU, Denmark



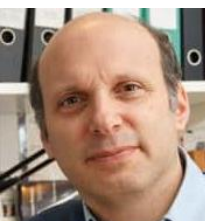
Maria G. Spiliantini
Cambridge, UK



Kristina Xiao Liang
UiB, Norway



Chris I. De Zeeuw
ErasmusMC, Netherlands



David C. Rubinsztein
Cambridge, UK



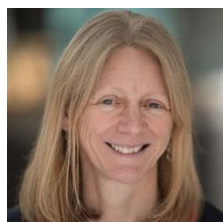
Tormod Fladby
UiO, Norway



Martin Vyhnaček
Charles U., CZ



Anne Simonsen
UiO, Norway



Lynne Cox
Oxford, UK



Richard Siow
KCL, UK



Nektarios Tavernarakis
U. Crete, Greece



Leiv Otto Watne
AHUS, Norway



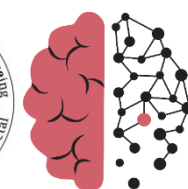
He-Ling Wang
UiO, Norway



Stathis Gonos
Athens, Greece



Guobing Chen
Ji-nan U, China



NO-Age

NO-AD

Pictures: designated institutions

Day 1 (18 Sep. 2023) Mechanisms of ageing and dementia		
08:00-08:15 Oslo time	Opening by <ul style="list-style-type: none">• UiO vice Rector Prof. Per Morten Sandset• Clare Filshie, Deputy Head of Mission, The British Embassy, Oslo• Dr. Øystein Lund, Counsellor for Research and Education, Royal Norwegian Embassy in London	
PART 1: Mechanisms of ageing and dementia. Chairs: David Rubinsztein (from 08:15) and Ole Petter Ottersen (from 10:45)		
08:15-09:00 Oslo time	Linda Partridge (UCL)	Ageing: a gut feeling
09:00-09:30 Oslo time	Linda Bergersen (UiO)	Exercise in neuroprotection
09:30-10:00 Oslo time	Richard Siow (KCL)	Healthy brain ageing – from cell to society
10:00-10:15 Oslo time	Break	
10:15-10:45 Oslo time	Lynne Cox (Oxford)	Developing therapeutics to treat cell senescence
10:45-11:15 Oslo time	Lene J. Rasmussen (Copenhagen)	FOXO-regulated OSER1 reduces oxidative stress and extends lifespan in multiple species
11:15-11:35	Konstantinos Palikaras (Athens)	The yin and yang of mitophagy in neuronal physiology
11:35-11:55	Ioannis Sotiropoulos	Exosomes & Chronic Stress: key players in progression and diagnosis of AD brain pathology
11:55-12:30 Oslo time	A summary of the ageing and neuroscience activities in Norway and the UK Talks from Sponsors	Prof. Jon Storm-Mathisen to introduce the Norwegian ageing and neuroscience activities Prof. David Rubinsztein to introduce the UK neuroscience activities Prof. Lynne Cox to introduce the UK ageing activities Talks from sponsors
12:30-13:30 Oslo time	Lunch	
PART 2: Mechanisms of ageing and dementia. Chairs: Lynne Cox and Jon Storm-Mathisen		
13:30-14:15 Oslo time	Maria G. Spillantini (Cambridge)	Tau, microglia, and neurodegeneration (tentative)
14:15-14:45 Oslo time	Chris I. De Zeeuw (ErasmusMC)	A linkage between cerebellum and AD? (tentative)
14:45-15:15 Oslo time	Leiv Otto Watne	Delirium and AD (tentative)
15:15-15:30 Oslo time	Break	
15:30-16:00 Oslo time	Katerina Veverova, Martin Vyhnalek (Charles)	Alterations of human CSF and serum-based mitophagy biomarkers patients from Czech Brain Aging Study (CBAS)
16:00-16:15 Oslo time	Kristian Xiao Liang (UiB)	iPSC models for neurodegenerative disease (tentative)
16:15-16:30 Oslo time	He-Ling Wang	The synergistic role of physical excise and NAD ⁺ in treating AD
16:30-17:15 Oslo time	Nektarios Tavernarakis (Crete)	Autophagy and ageing (tentative)
19:00-21:00	Evening event: Domus Bibliotheca (Karl Johans gate 47, 0162 Oslo, Norway), room booked Key speakers: Ole Petter Ottersen, Linda Partridge	

Panel debate on anti-ageing strategies and a happy ageing society

19:00-21:00 CEST, 18th Sep. 2023

Address: Domus Bibliotheca (Karl Johans gate 47, 0162 Oslo, Norway)

Day 1 (18 Sep. 2023) Evening event	
18.30-19.00	Light dinner at Domus Bibliotheca for speakers only
18.50	Doors open to the audience
19.00	Opening of event by Sofie Lautrup (moderator) Welcome in Norwegian and English
19.10	Section 1: Ageing Science Panel members: Linda Partridge, Vilhelm A. Bohr, Maria G. Spillantini, David Rubinsztein, Nektarios Tavernarakis, Richard Siow, Katina Handeland
19.55	Coffee-break and networking
20.10	Section 2: Ageing Society Panel members: Ole Petter Ottesen, Lynne Cox, Evandro Fei Fang, Geir Selbæk, Erik Borge Skei, Jon Storm-Mathisen
20.50	Ending remarks by Sofie Lautrup
21.00	Evening event closes

Practical information:

During each section Sofie Lautrup will be the moderator of discussion and ensure to keep the time schedule. The last 15 min of each section will be Q&As from the audience.

A photographer will document the event (please let us know if you do not want photos to be taken of you) Dress-code: Semiformal/formal (audience casual)

Section 1: Ageing Research. Topics: why studying ageing, Popular topics in ageing science, ethical considerations, animal models and humans and more.

Section 2: Ageing Society. Topics: How are we preparing for an ageing society? How is it going? How are interactions between scientists and politicians and clinicians? And the general population?

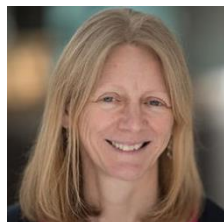
Day 2 (19 Sep. 2023) Mechanisms of ageing and dementia		
08:10-08:15 Oslo time	Coffee	
PART 1: Mechanisms of ageing (Chairs: Linda Partridge and Richard Siow)		
08:15-09:00 Oslo time	Vilhelm Bohr (Copenhagen)	DNA damage signaling to mitochondria in neurodegeneration and aging
09:00-09:30 Oslo time	Koutaro Yokote (Chiba)	Werner syndrome: a model of accelerated aging in human
09:30-10:00 Oslo time	Janna Saija Saarela (UiO)	SNP and ageing (tentative)
10:00-10:30 Oslo time	Hilde Nilsen (UiO and OUS)	DNA damage response as a driver of progressive neurodegenerative diseases – from mechanisms to clinical intervention.
10:30-10:45 Oslo time	Break	
10:45-11:15 Oslo time	Stathis Gonos (Athens)	Proteasome activation delays aging and progression of neurodegenerative diseases (tentative)
11:15-11:45 Oslo time	Morten Scheibye-Knudsen (Copenhagen)	DNA repair and AI in healthy ageing (tentative)
11:45-12:15 Oslo time	Guobing Chen (Ji-nan U.)	Immune ageing and its application on ageing related diseases (tentative)
12:15-12:30 Oslo time	Hisaya Kato (Chiba)	NAD+-based clinical trials in Werner syndrome (tentative)
12:30-13:30 Oslo time	Lunch	
PART 2: Targeting ageing at population and societal levels (Chairs: Maria Spillantini and Vilhelm Bohr)		
13:30-14:00 Oslo time	Geir Selbæk (UiO)	Lifetime risk factors of dementia in the Ageing in Trøndelag cohort study
14:00-14:30 Oslo time	Tormod Fladby (AHUS and UiO)	AD biomarkers (tentative)
14:30-15:00 Oslo time	Per Nilsson (Karolinska)	Autophagy and Alzheimer’s disease (tentative)
15:00-15:30 Oslo time	Anne Simonsen	Mitophagy and disease (tentative)
15:30-15:45 Oslo time	Break	
15:45-16:15 Oslo time	Dag Årsland (KCI/Stavanger)	Dementia treatment
16:15-16:30 Oslo time	Miguel G. Borda (Stavanger)	The Crossroads of Dementia, Neurodegeneration, frailty, and sarcopenia
16:30-16:45 Oslo time	Sofie Lautrup (UiO)	Spatiotemporal quantification of mitophagy in AD brain samples (tentative)
16:45-17:30 Oslo time	David C. Rubinsztein (Cambridge)	Autophagy and neurodegenerative disease (tentative)
17:45	Departure/Dinner	

Organizers



Evandro F. Fang
UiO/Ahus, Norway

Dr. Evandro Fei Fang is a molecular gerontologist whose research focuses on understanding the molecular mechanisms of human ageing and age-related diseases. His team uses bench-top knowledge to guide the development of novel interventional strategies towards human ageing, with a final goal of improving the quality of life in all older people. After finishing his PhD at the Chinese University of Hong Kong, he completed a 6-year postdoc with Prof. Vilhelm Bohr on molecular gerontology and Prof. Mark Mattson on neuronal resilience in Alzheimer's disease at the National Institute on Ageing, Baltimore; he opened his lab in Oslo in the fall of 2017. He is the founding (co)coordinator of the Norwegian Centre on Healthy Ageing network (NO-Age, www.noage100.com), the Norwegian National anti-Alzheimer's disease Network (NO-AD, www.noad100.com), and the Hong Kong-Nordic Research Network.



Lynne Cox
Oxford, UK

Lynne Cox heads the lab of Ageing and Cell Senescence at the University of Oxford. She studied at the University of Cambridge (MA, PhD) and held a Royal Society of Edinburgh fellowship at the University of Dundee, developing initial IP for spin-out Cyclacel. She has served on the UK's All Party Parliamentary Group for Longevity, co-authoring 'Health of the Nation – a strategy for healthier longer lives' launched in 2020 by the UK Secretary of State for Health and Social Care. She is a recipient of the US Glenn Award for research on ageing, and the British Society for Research on Ageing Lord Cohen medal for contributions to ageing science. She co-chairs the European Geriatric Medicine Society Ageing Biology group, co-directs the UK Ageing Research Networks (<https://www.ukanet.org.uk/>) and is Program Director of Dynamic Resilience, a \$60m global healthy longevity program funded by Wellcome Leap and Temasek Trust (<https://wellcomeleap.org/dr/>).

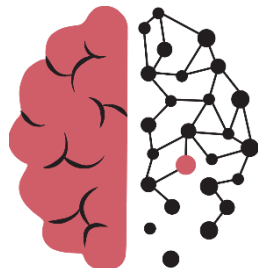


Richard Siow
KCL, UK

Richard is a graduate of King's College London (BSc Nutrition, PhD Cardiovascular Physiology) and followed his degrees with postdoctoral research in the Department of Medicine, University of Cambridge. Since 2015 he has been the Director of Ageing Research at King's (ARK), a cross-university consortium of researchers taking a multidisciplinary approach to better understand the mechanisms of ageing, improving health-span and the social and economic impact of ageing. He is currently a visiting senior academic in the Department of Physiology, Anatomy and Genetics, University of Oxford. He is the Secretary General of the European Society of Preventive Medicine. His research team focuses on the role of nutrigenomics and ageing on redox signalling in cardiovascular and cerebrovascular health and disease. He has numerous international collaborations including University of Oxford, University of Zurich, National University of Singapore, Harvard Medical School, Charité Berlin, Technical University of Dresden and University of Tsukuba.



NO-Age



NO-AD



Oriel College
University of Oxford



David C. Rubinsztein
Cambridge, UK

David Rubinsztein FRS FMedSci is Professor of Molecular Neurogenetics and a UK Dementia Research Institute Group Leader at the University of Cambridge. His research is focused in the field of autophagy, particularly in the context of neurodegenerative diseases. His laboratory pioneered the strategy of autophagy upregulation as a possible therapeutic approach in various neurodegenerative diseases, and has identified drugs and novel pathways that may be exploited for this objective. He has made contributions that reveal the relevance of autophagy defects as a disease mechanism and to the basic cell biology of this important catabolic process.



Ole Petter Ottersen
UiO, Norway

Ole Petter Ottersen is a highly accomplished professor of medicine at UiO, holding numerous leadership roles throughout his career. He has been involved in various academic and research initiatives, both nationally and internationally, and has contributed significantly to the field of neuroscience. With extensive teaching experience, Ottersen has prioritized study quality, internationalization, innovation, and communication. He has received prestigious awards and holds honorary doctorates from esteemed institutions. His scholarly work has made a significant impact, with a high citation count and an h-factor of 113.



Linda Partridge
UCL, UK

Professor Dame Linda Partridge DBE FRS is a renowned geneticist and the founding Director of the Max Planck Institute for Biology of Ageing. Her groundbreaking research focuses on aging, lifespan extension, and age-related disorders like Alzheimer's and Parkinson's. Linda's work has applications in developing treatments for these diseases and promoting healthy aging. She studies the evolution of aging rates, mechanisms of lifespan extension in model organisms, and the role of nutrient-sensing pathways. Currently, she focuses on pharmacological treatments for improving health during aging.



Linda H. Bergersen
UiO, Norway

The research group of Dr. Linda Bergersen investigates the role of lactate in pathogenic brain as we age. Dr. Bergersen obtained her PhD from the University of Oslo, and she is now a professor at the University of Oslo, holding multiple roles, including Head of Electron Microscopy Laboratory and Leader of the Brain and Muscle Energy Group, Institute of Oral Biology (IOB), Department of Oral Biology (UiO), Professor in Physiology at the Faculty of Dentistry (UiO), and Professor of Neurobiology of Aging at the Center of Healthy Aging (CEHA), University of Copenhagen, Denmark.



Lene J. Rasmussen
Copenhagen, DK

Dr. Rasmussen's research focuses on understanding a central challenge of modern biomedicine, namely the genetic origins of complex diseases and the contribution of environmental factors. Her particular research interests include the role of deoxynucleoside kinases in maintaining genomic integrity, interaction between dNTP pools and mitochondrial function, basic research into aging, the molecular mechanisms underlying mitochondrial-mediated mutagenesis, and identification of proteins involved in maintaining integrity of the mitochondrial genome.



Ioannis Sotiropoulos
Athenes, Greece

Dr. Ioannis Sotiropoulos is a researcher and group leader at the Institute of Biosciences & Applications, NCSR "Demokritos", Greece. His research work focuses on understanding the orchestrating role of environmental risk factors (e.g., chronic, lifetime stress) on the onset of Alzheimer's disease (AD) with a specific focus on the relationship between AD and depression, a stress-related disorder. Combining cell-, animal- and human-based studies, Dr. Sotiropoulos' innovative work aims to clarify the diverse factors that regulate the cellular role of Tau as a key molecule of neuroplasticity and neuropathology while his recent work focuses on exosomes as both mediators of brain pathology and potent biomarkers. He has received different prizes & awards including the Hirnliga Alzheimer Award 2009, AD/PD Young Faculty 2014 Award, Jerome Lejeune 2017 Award, Janssen Innovation Award 2017, Alzheimer Association Award for Best Mentor in Neuroscience 2021.



Konstantinos Palikaras
Athenes, Greece

Konstantinos Palikaras is Assistant Professor of Experimental Physiology at the Medical School of the National and Kapodistrian University of Athens, in Athens, Greece. His research focuses on studies of autophagy, mitophagy, and cellular homeostasis investigating the role of energy metabolism in neuronal physiology and survival. His main interests are the molecular mechanisms of necrotic and mitophagic cell death and their interplay between cellular metabolism and ageing, and the development of novel genetic tools for biomedical research. For his scientific accomplishments, Konstantinos Palikaras has received several notable scientific prizes including the "Fotis Kafatos" Award for excellence in biology from Hellenic Society of Bioscientists and ERC Starting Grant (2022) among others. He is also a member of Genetics Society of America (GSA), the Hellenic Society of Biochemistry and Molecular Biology (HSBMB), the Hellenic Society for Neuroscience (HSfN) and the Hellenic Initiative Against Alzheimer's Disease (HIAAD).



Jon Storm-Mathisen
UiO, Norway

Jon Storm-Mathisen is a Norwegian brain researcher and is professor emeritus of medicine at the University of Oslo. Retiring officially in 2011, Storm-Mathisen was previously deputy head of the Center for Molecular Biology and Neuroscience. He received the Anders Jahres medical prize in 2006 for his pioneering research on signaling substances in the brain. He received UiO's research prize in 2004. He was also awarded the Nansen Medal and the Lundbeck Prize, and elected member of the Norwegian Academy of Science and Letters. He chaired the inaugural Kavli Prize Committee for Neuroscience.



Maria G. Spillantini
Cambridge, UK

Maria Grazia Spillantini is Professor of Molecular Neurology at the University of Cambridge. She received a Laurea in Biological Sciences from the University of Florence. In 1987 she obtained a PhD in Molecular Biology from Cambridge University. In 1996 she moved to the Department of Clinical Neurosciences at Cambridge. With her collaborators, she identified alpha-synuclein as the major component of the filaments that form the Lewy bodies in PD and described one of the first mutations in the MAPT gene causing FTDP-17T. She has received the Potamkin Prize of the American Academy of Neurology, the Cotzias Prize of the Spanish Neurological Society and the Jay Van Andel Award for achievements in PD. She is Fellow of the Academy of Medical Sciences, and of the Royal Society, and has received a Knighthood from the President of Italy.



Chris I. De Zeeuw
ErasmusMC, Netherlands

Chris I. De Zeeuw is Chairman of the Department of Neuroscience at Erasmus MC in Rotterdam, Vice-Director of the Netherlands Institute for Neuroscience in Amsterdam, and Director of Neurasmus BV. Soon after receiving the Fellowship Award from de Royal Dutch Academy of Sciences (KNAW) he became visiting professor at NYU Med School in New York. When he returned to the Netherlands he became Professor and Chair of the department that he founded in Rotterdam around the turn of the new millennium. He has been Principal Coordinator of the EU Robotics program (SENSOPAC) and President of Neuro-Bsik Mouse- and Pharma-Phenomics consortia. De Zeeuw has received over 100 grants, including the PIONIER Award from ZonMw and the ERC advanced grant. In 2006 he received the Beatrix Award for Brain Research from her Majesty the Queen, in 2014 he became elected member of the Dutch Academy of Arts & Science, and in 2018 he received the international Casella Prize for Physiology.



Leiv Otto Watne
AHUS, Norway

Professor Leiv Otto Watne is a geriatrician at the Department of Geriatric Medicine, Akershus University Hospital, Norway. He is the President of the European Delirium Association and the leader of Oslo Delirium Research Group. The group has carried out pharmacological and non-pharmacological intervention studies, as well as studies on delirium pathophysiology and epidemiology. The group has comprehensive experience in sampling biological and clinical data from patient cohorts. Their biobank of CSF and blood samples from delirious patients is a valuable source of information on pathophysiological mechanisms in delirium.



Katerina Cechova
Charles U., CZ

Dr. Katerina Veverova (Cechova) is a cognitive neuroscientist at the Second Faculty of Medicine, Charles University in Prague and University Hospital Motol. In 2021, she completed her Ph.D. focusing on BDNF as a marker of prediction, follow-up, and intervention in neurodegenerative diseases in the Czech Brain Aging Study (www.cbas.cz). She is an Assistant Professor at the Department of Psychology, Charles University, and deputy chairperson of the Neuropsychological section of the Czech-Moravian Psychological Society. Currently, her main research interest is the interaction of biofluid biomarkers of Alzheimer's disease and cognition, with a particular focus on mitophagy as a promising molecular mechanism underlying the pathogenesis of AD (www.mitophagyeu.cz).



Martin Vyhnálek
Charles U., CZ

Associate Professor Martin Vyhnálek is a cognitive neurologist based in Motol University Hospital, Charles University in Prague, Czech Republic. After his medical studies, he completed a degree in clinical neuropsychology at Montpellier University in France. After returning to Prague, he co-founded the Czech Brain Aging Study – the only Czech longitudinal, observational study on aging and dementia. He is responsible for neuropsychological core and biobanking. His research focuses mainly on early cognitive and neuropsychiatric markers of neurodegeneration and the role of subjective cognitive complaints in early AD diagnostics.



Kristina Xiao Liang
UiB, Norway

Dr. Kristina Xiao Liang is the Principal Investigator and Group Leader of the Mitochondrial Stem Cell Group at the University of Bergen (UiB) Faculty of Medicine. She is an expert in using stem cell models, especially induced pluripotent stem cells (iPSCs), to identify mechanisms underlying mitochondrial diseases and to develop iPSC-based platforms to test therapeutics. Her research group is based in the UiB's Department of Clinical Medicine (K1) and is part of Neuro-SysMed, the Center of Excellence for Clinical Research in Neurological Diseases, Department of Neurology, Haukland University Hospital. Her research group has established the capabilities and facilities required for iPSC reprogramming and differentiation, enabling the study of neuronal cells from patients and healthy controls. The group has also recently developed 3D brain organoids to study disease mechanisms and test treatments, including NR.



He-Ling Wang
UiO, Norway

He-Ling Wang is a DPhil candidate in the Evandro Fang Laboratory at the University of Oslo, Norway. She holds a Bachelor's degree in Medicine and a Master's degree in Oral Medicine from Jilin University, China. During her Master programme, she completed a one-year internship program at Okayama University, Japan, where she received training in microbiota. In the Fang laboratory, she is studying three major research topics: 1) mechanistic studies of Alzheimer's disease (AD) with a particular emphasis on roles of reduced NAD⁺ and compromised autophagy/mitophagy in AD progression; b) investigating potential synergistic benefits of exercise plus NAD⁺ in slowing AD; and c) conducting research on the connection between malfunctioned and imbalanced microbiota profile and AD. Her final goal is to identify effective and publicly accessible therapeutic interventions.



Nektarios Tavernarakis
U. Crete, Greece

Nektarios Tavernarakis is Professor of Molecular Systems Biology at the Medical School of the University of Crete, Chairman of the Board of Directors at the Foundation for Research and Technology-Hellas, and Research Director at the Institute of Molecular Biology and Biotechnology, in Heraklion, Greece, where he is heading the Neurogenetics and Ageing laboratory. He is the Founder and first Director of the Graduate Program on Bioinformatics at the University of Crete, Chairman of the European Institute of Innovation and Technology (EIT) Governing Board, and has served as Vice President of the Scientific Council of the European Research Council (ERC), and Director of IMBB. He is a member of AAAS, EMBO, Leopoldina, EASA, Academia Europaea, the European Academy of Sciences (EurASc) and the Academy of Athens. He earned his Ph.D. degree at the University of Crete and trained as a postdoctoral researcher at Rutgers University in New Jersey, USA. His work focuses on the molecular mechanisms of necrotic cell death and neurodegeneration, the interplay between cellular metabolism and ageing, the mechanisms of sensory transduction and integration by the nervous system, and the development of novel genetic tools for biomedical research.



Vilhelm Bohr
Copenhagen, DK

Prof. Bohr's main contributions to science have been in the area of DNA repair. He has worked on many aspects of DNA damage and its processing in mammalian cells. He developed a widely used method for the analysis of DNA repair in individual genes and found that active genes are preferentially repaired. This observation was a major advance in the clarification of the tight interaction between DNA repair and transcription, a process termed transcription-coupled repair. In recent years numerous papers from his laboratory have focused on mechanisms of DNA damage processing, particularly on nucleotide excision repair and transcription coupling. A main interest now is to elucidate how these processes change in relation to aging.



Koutaro Yokote
Chiba, Japan

Koutaro Yokote, a graduate of Chiba University, is a physician scientist in the field of Endocrinology, Diabetology, and Geriatrics. He received Ph.D from Uppsala University for the study of PDGF receptor signaling, under Dr. Carl-Henrik Heldin the former Chairman of the Nobel Foundation. Dr. Yokote developed interest in pathogenesis of atherosclerosis in relation to aging, which led to studies of the progeroid Werner syndrome in Japan. He organized the Werner syndrome registry in Japan and played a central role in establishing management guidelines for the syndrome. He is engaged in both clinical and basic studies on Werner syndrome, with a belief that the efforts would facilitate not only the research of the specific disease, but also the understanding of common age-related disorders such as atherosclerosis and diabetes. He has published more than 360 papers in peer-review journals including NEJM and Nature, and is currently the president of Japan Society for the Study of Obesity.



Janna Saija Saarela
UiO, Norway

The Saarela group's research focuses on improving the understanding of biological pathways and pathogenic mechanisms behind rare and common immune diseases. They especially focus on primary immune deficiencies and multiple sclerosis and utilising the new knowledge to the benefit of the patients. They use rare immune diseases as models for autoimmunity and focus on identifying novel causative genes for the rare disorders in the founder population of Finns and study the functional consequences of the identified gene defects.



Hilde Nilsen
UiO, Norway

Hilde Loge Nilsen is a researcher and professor at the University of Oslo. Her work focuses on studying DNA and RNA quality control mechanisms in human disease, particularly in relation to cancer, aging, and neurodegenerative disorders. With extensive experience and notable contributions in the field, Nilsen investigates the role of DNA repair enzymes and their impact on preventing mutations and maintaining cellular function. Her research also highlights the involvement of DNA repair proteins in RNA quality control. Nilsen's work aims to advance our understanding of tumorigenesis, age-related diseases, and the intricate interplay between DNA and RNA maintenance.



Stathis Gonos
Athens, Greece

Stathis Gonos graduated from the University of Athens, Greece, and obtained his Ph.D. at the University of Glasgow and was a Docent at the Orebro University Medical School, Sweden. He worked at the Ludwig Institute for Cancer Research/University College in London and at the National Hellenic Research Foundation/ICB. Since 2021, he has been the General Director of the Hellenic Pasteur Institute. His research focuses on the genetic and environmental factors that are linked to human aging and longevity. He has published more than 150 research articles and holds patents that have resulted in the development of novel anti-aging products. Dr. Gonos has been a "Senior expert" for the EU in "Human development and the aging process" and is a past member of the Executive Committee of International Union of Biochemistry and Molecular Biology (IUBMB). He is Editor-in-Chief of "Mechanisms of Ageing & Development" and "IUBMB Life".



M. Scheibye-Knudsen
CU, Denmark

Dr. Scheibye-Knudsen's lab focuses on trying to understand the cellular and organismal consequences of DNA damage in ageing with the aim of developing interventions to treat this damage, and thus ageing. His team discovered that DNA damage leads to changes in certain metabolites and that replenishment of these molecules may alter the rate of ageing in model organisms. These findings suggest that normal ageing and age-associated diseases may be amenable to similar interventions. The hope is to develop interventions that will allow everyone to live healthier, happier and more productive lives.



Guobing Chen
Ji-nan U, China

Guobing Chen is Professor of Immunology, Director of Institute of Geriatric Immunology and Deputy Dean of the School of Medicine, Jinan University in China. His group is working on how the immune system changes during aging, to identify the biomarkers of immune aging, explore the immunological factors relevant to geriatric diseases, such as infectious, autoimmune and neurodegenerative diseases, and finally to develop the efficient treatment to prevent aging and aging related diseases.



Hisaya Kato
Chiba, Japan

Dr. Hisaya Kato is committed to revealing the mechanisms of aging through the study of the progeroid Werner syndrome. He has developed disease-specific induced pluripotent stem (iPS) cells and gene repair methods using CRISPR/Cas9, along with techniques for inducing differentiation into mesenchymal stem cells and adipocytes. Dr. Kato is also engaged in omics analysis using patient-derived fibroblasts and liquid biopsy samples. Additionally, he is involved in the EMPOWER clinical trial, which examines the effects of nicotinamide riboside on Werner syndrome patients.



Geir Selbæk
UiO, Norway

Geir Selbæk is a professor at the University of Oslo and research director at the Norwegian Centre for Ageing and Health. He is a medical doctor (1991), and psychiatrist (2001). He completed his PhD on neuropsychiatric symptoms and medication use in nursing home patients with dementia in 2008. He leads the Norwegian registry for persons with cognitive symptoms, at present including 24,000 persons from 47 outpatient departments in Norway. He is also leader of the population-based study of cognition in old age, HUNT4 70+, including 12,000 persons 70 years of age or older, and the 4-year follow-up study of this cohort, Ageing in Trøndelag. He is a member of the Lancet Commission on Dementia Prevention, Treatment and Care. His research covers several aspects of ageing, with a particular focus on cognitive impairment and dementia.



Tormod Fladby
UiO, Norway

Tormod Fladby is a professor of neurology at the University of Oslo Institute of Clinical Medicine, and leader of the neurology clinic at Akershus University Hospital, and previous leader of the Norwegian Forum for Neuropsychiatry. In 2017, he won the prestigious Norwegian National Association for Public Health's Dementia research prize. He was an initiator of the Norwegian Neuropsychiatric Association, and previous chairman of the Nansen Neuroscience Federation. His main research focuses on Alzheimer's disease (AD), by far the most common cause of dementia, where he has undertaken studies looking into biomarkers of disease within blood and spinal fluid.



Per Nilsson
Karolinska, Sweden

Per Nilsson's group focuses on the role of autophagy in A β metabolism and neurodegeneration in Alzheimer's disease, analysing the mechanism of autophagy in the metabolism of A β using state of the art AD mouse models; using genetic tools, we inhibit autophagy in different neuronal cells. Intriguingly, we have found that when autophagy is deleted in nerve cells, the extracellular A β plaques decrease and A β instead accumulates intracellularly. This activates neurodegenerative processes which could be linked to the neurodegeneration taking place in the AD brain. This neurodegeneration is currently being investigated using different genetic and omics approaches.



Anne Simonsen
UiO, Norway

Dysfunctional autophagy is linked to several pathophysiological conditions, including cancer and neurodegenerative disorders. The main focus of the "Simonsen Lab" is to characterize of the molecular mechanisms involved in cargo sequestration and autophagosome biogenesis during non-selective and selective types of autophagy with a long-term goal to identify novel targets for diagnosis or treatment of human disease. Work in our laboratory is focused on identification of novel lipid-binding proteins involved in different types of autophagy and elucidation of their function in autophagy and link to disease. To address these challenges, we use a combination of cell biological, biochemical, imaging, genomic and computational approaches, as well as disease-related model systems.



Dag Årslund
KCL/Stavanger

Prof. Dag Årslund is a Professor and Department Head at the Department of Old Age Psychiatry, Institute of Psychiatry, Psychology, and Neuroscience at King's College London. His research takes in a wide range of topics within neuropsychiatry, including Parkinson's disease and dementia with Lewy bodies; he has been a member of many international collaborations in these areas. He was key in the development of the "Parkinson-spectrum Memory Clinic" for patients with Parkinson's and Lewy body dementia at the South London and Maudsley NHS Foundation Trust. Professor Årslund is a prolific author, and a popular lecturer in his field at international scientific conferences.



Miguel G. Borda
Stavanger, Norway

Miguel is a medical doctor specialising in geriatric medicine (2019). He received both his medical and specialty degrees from Pontificia Universidad Javeriana in Colombia and completed a Master's degree in Movement Disorders at the Universidad de Murcia in Spain. He has a Doctorate in Health Sciences from the University of Stavanger in Norway, where his thesis focuses on clinical and neuroimaging prognostic markers in Alzheimer's Disease and Lewy Body Dementia, with a particular emphasis on the role of muscle status and nutrition. His main research interests centre around dementia, particularly Lewy body dementia, and the systemic interactions between dementia and the body, specifically the role of muscle. He also has a special interest in nutrition, sarcopenia, frailty, functional capacity, fatty acids, and interventions to promote cognitive health and healthy aging.



Sofie Lautrup
UiO, Norway

Dr. Sofie Lautrup is a researcher and senior postdoc in the Evandro Fang lab at the University of Oslo. She studied the connections between the DNA base excision repair (BER) and cognitive capacity during brain ageing (Aging Cell 2023) with Professor Tinna Stevnsner at Aarhus University, Denmark. She also worked in the laboratory of Dr. Vilhelm A. Bohr at the National Institute on Aging (NIA), Baltimore, USA during her PhD, whereby she focused on the NAD⁺ precursor Nicotinamide Riboside (NR) as an Alzheimer's Disease (AD) therapeutic (PNAS, 2018). In the Fang lab, she is studying how NAD⁺ affects both normal and premature ageing using spatial-OMICS and staining to map the spatio-temporal changes of mitophagy and beyond in the human aging and disease brain.



Erik Borge Skei
Ahus, Norway

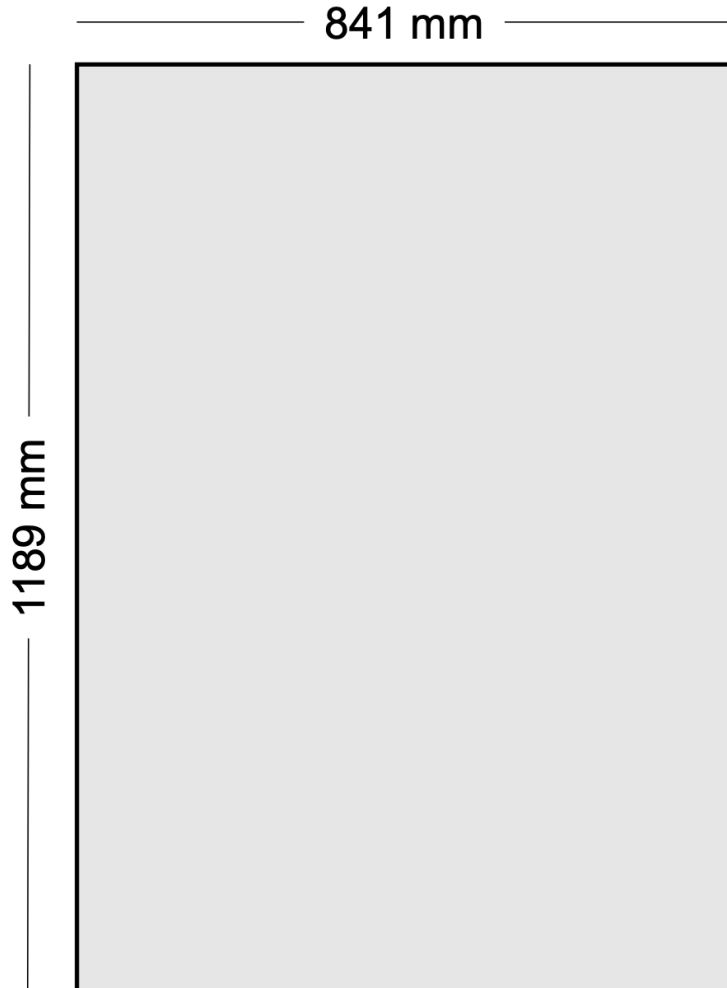
Erik Borge Skei is the Director of the medical division at Akershus University hospital in Norway since 2019, which consists of 17 departments including geriatrics. He was previously the clinical director at the Children- and youth clinic at Ahus. He is a medical doctor with specialties in pediatrics and children's diseases. Erik Borge Skei has been greatly involved in Norwegian policies as the former deputy chairman of the Oslo Left party, chairman and deputy chairmen of different departments in the Oslo municipality.



Katina Handeland
Aker Biomarine, Norway

Dr Katina Handeland is Director of Research & Development and Human Nutrition at Aker BioMarine in Oslo, Norway. Aker Biomarine is a biotech innovator and Antarctic krill-harvesting company, with the dedication of improving human and planetary health. Handeland is working on both design and follow-up of the pre-clinical and clinical trials for the human health portfolio, studying the biological effects of krill and its benefits. Katina Handeland holds a Ph.D. in Nutrition from the University of Bergen, and she has extensive experience with innovation projects for medical nutrition and is currently serving as the President of the Board for the Norwegian Nutrition Society.

Poster



How to format your poster:

- ☐ Size: Posters should be no larger than A0 size (841 x 1189 mm), in portrait format
- ☐ On main area of the poster, include a reproduction of your abstract with the following headings (which should be in 40 pt font):
 - Introduction
 - Methods
 - Results
 - Conclusions
 - References
 - Discussion (optional)
- ☐ Recommended fonts are Arial, Calibri, Century Gothic, Geneva, ad Helvetica (San serif fonts)

Acknowledgements

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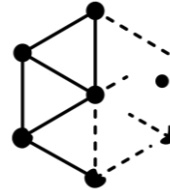
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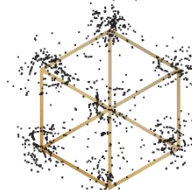
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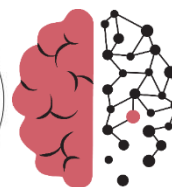
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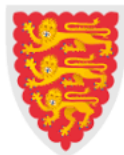
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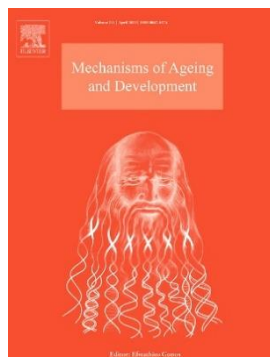


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