

Thursday, Nov 21<sup>st</sup>

07:30–08:15	Registration
08:15–08:25	<p><b>WELCOME!</b></p> <p>Dean KI South, Matti Sällberg</p> <p>Karolinska University Hospital Director for Research, Education and Innovation, Olof Akre</p> <p>Site Director Huddinge, Karolinska University Hospital Huddinge, Annika Bergquist</p> <p>(Jan-Åke Gustafsson, Erna Möller, DNA and Gene lecture hall)</p>

*Jan-Åke Gustafsson lecture hall**Erna Möller lecture hall**Gene lecture hall*

	<i>Jan-Åke Gustafsson lecture hall</i>	<i>Erna Möller lecture hall</i>	<i>Gene lecture hall</i>
08:30–9:15	<b>Tissue Immunology</b> Chair: Laura Palma Medina Co-chair: Magda Lourda	<b>Innovation and technology</b> Chair: Torkel Brismar Co-chair: Therese Djärv	<b>Health vs Oral Health – The connection?</b> Chair: Abhishek Kumar Co-chair: Ann Langius-Eklöf
08:30	<b>Marcus Buggert:</b> iHOPE and relevance for the clinic	<b>Andreas Claesson:</b> Drones in out-of-hospital cardiac arrest – a novel life saving treatment methodology	<b>Bodil Lund:</b> Oral infections and influence on sepsis
08:40	<b>Helen Kaibe:</b> Tissue-resident T cells in pancreatic cancer	<b>Karin Dembrower:</b> Artificial intelligence for breast cancer detection in screening mammography	<b>Gerd Faxén-Irving:</b> Nutrition and oral health
08:50	<b>Mattias Carlsten:</b> Redirecting NK cell homing to the bone marrow to improve the treat efficacy of myeloid leukemia	<b>Gustaf Ahlén:</b> The pre-GMP facility at KI South: How do I get my product into the clinic?	<b>Mats Trulsson:</b> Chewing impairment and the influence on brain function
09:00–09:10	Questions and discussion	Questions and discussion	Questions and discussion
9:15–10:00	<b>Implementation of AI in care – risks and opportunities</b> Chair: Filip Christiansen Co-chair: Mikael Norman	<b>Cellmigration and metastasis in cancer</b> Chair: Michal Jacek Sobkowiak Co-chair: Jonas Fuxe	<b>Senescence across ages</b> Chair: Ylva Ambrosiani Co-chair: Peter Stenvinkel
09:15	<b>Elisabeth Epstein:</b> Implementing Computer Aided Diagnostic support for ultrasound assessment of ovarian tumours	<b>Jennie Engstrand:</b> Metastasis to the liver – a clinical perspective	<b>Kajsa Bohlin:</b> Neonatal stress and aging
09:25	<b>Stephanie Robertson:</b> Stratipath – implementing AI-based diagnostic support for Oncology	<b>Marco Gerling:</b> Decoding the capsule: a new perspective on liver metastasis and patient survival	<b>Federico Pietrocola:</b> Can we reverse aging?
09:35	<b>Emma Svennberg (MedH) - AI in detecting atrial fibrillation</b>	<b>Sara Schmidt:</b> Antioxidants and metastasis	<b>Gabriel Oniscu:</b> Targeting senescence at organ level
09:45–09:55	Questions and discussion	Questions and discussion	Questions and discussion
10:00–10:30	<b>Coffee, poster and core facility exhibition</b>		
10:30–11:15	<b>Clinical challenges and new therapies in hematological diseases</b> Chair: Arnika Wagner Co-chair:	<b>How to obtain top grants: lessons learnt from recent grant awardees</b> Chair: Vanessa Lundin Co-chair: Maria Eriksson	<b>Centre for Bioinformatics and Biostatistics – Educational program</b> Chairs: Carsten Daub & Hannes Hagström
10:30	<b>Mikael Sundin:</b> New therapies in hematological diseases	<b>Pauliina Damdimopoulou:</b> Safeguarding female Fertility -development of human-relevant in vitro tools for reproductive toxicity (SAFER)	<b>Carsten Daub &amp; Michael Ingre:</b> Why use CBB for your needs in bioinformatics and biostatistics
10:40	<b>Yenan Bryceson:</b> Diagnosing uncommon genetic mutations in hematological diseases	<b>Jenny Mjösberg:</b> GUT-SEQ: Single-cell analysis of intestinal lymphocytes reveals targets for treatment of inflammatory bowel disease	10:35 <b>Laura Vossen Engblom:</b> How to avoid an angry statistician and save money - the importance of a structured analysis plan before starting your project
10:50	<b>Stephan Mielke:</b> Advancements in CAR-T cell therapy	<b>Samir El Andaloussi:</b> In situ engineering of extracellular Vesicles for targeted delivery of biotherapeutics	
11:00–11:10	Questions and discussion	Questions and discussion	10:55 <b>Michael Ingre:</b> Do and don't:s - what is a power calculation and how do I do it?
11:15–12:00	<b>The new survivors – long term outcomes when growing up after severe disease</b> Chair: Milan Chromek Co-chair: Carl Jorns	<b>Basic and clinical aspects of diabetes and complications</b> Chair: Rongrong Fan Co-chair: Daniel Andersson	<b>How can physical activity prevent and treat symptoms of severe illness?</b> Chair: Ulrica Nilsson Co-chair: Sofia Vikström
11:15	<b>Mikael Norman:</b> Prediction and prospects after preterm birth	<b>Niklas Mejhert:</b> Adipocyte subpopulations and insulin sensitivity	<b>Ann-Helen Patomella:</b> Physical and everyday activities to prevent stroke- an intervention study
11:25	<b>Katarina Grossmann:</b> Long term outcome after hypothermia-treated hypoxic-ischaemic encephalopathy	<b>Cecilia Morgantini:</b> Immunological response of diabetic patients with chronic foot ulcers	<b>Elisabeth Rydwik:</b> Physical activity and exercise for frail older people
11:35	<b>Jeanette Winterling:</b> Innovations for teens and young adults surviving cancer	<b>Ping Chen:</b> Dissecting the complexity of human data through data-driven research	<b>Poorna Anand:</b> Minimizing side effects after treatment for cancer - Exercise oncology
11:45–11:55	Questions and discussion	Questions and discussion	Questions and discussion
12:00–13:10	<b>Lunch, poster and core facility exhibition</b>		

13:10–13:55	<b>Inflammation and neurodegenerative diseases (Alzheimer's)</b> Chair: Sumonto Mitra Co-chair: Charlotte Ytterberg		<b>Regeneration and repair – how hard can it be?</b> Chair: Shivam Chandel Co-chair: Rachael Sugars		<b>Future of Flemingsberg – centers of excellence</b> Chair: Annika Tibell Co-chair: Maria Eriksdotter
13:10	<b>Marianne Schultzberg:</b> Inflammation and its resolution	13:10	<b>Fredrik Lanner:</b> Cells as a conduit for tissue and organ repair	13:10	<b>Johnny Högberg:</b> Future of Flemingsberg
13:10	<b>Sverker Johansson:</b> Balance training intervention in people with MS	13:25	<b>Georgios Tsilingaridis:</b> Pulp revitalisation for regeneration and repair of the tooth	13:10	<b>Knut Steffensen:</b> ATMP center Karolinska
13:10	<b>Ellen Iacobaeus:</b> Mesenchymal stromal cells and Multiple Sclerosis- clinical and experimental studies	13:40	Questions and discussion	13:10	<b>Petter Woll:</b> MedH FACS Facility: combining cellular fluorescence and sort-capable imaging
13:40–13:50	Questions and discussion			13:40	Questions and discussion
14:00–15:00	<b>Keynote lecture "My failures as a researcher" with Jonas Ludvigsson</b> Chairs: Annika Bergquist (Jan-Åke Gustafsson, Erna Möller, DNA and Gene lecture hall)				
15:00–15:40	<b>Coffee, poster and core facility exhibition</b>				
15:40–16:50	<b>Oral presentations OP 01–OP 07 (Jan-Åke Gustafsson lecture hall)</b> Chairs: Bodil Lund Co-chair: Elisabeth Epstein		<b>Oral presentations OP 08–OP 14 (Erna Möller lecture hall)</b> Chairs: Petter Höglund Co-chair: Jacob Hollenberg		<b>Oral presentations OP 15–OP 21 (Gene lecture hall)</b> Chairs: Maria Ankarcrona Co-chair: Sumonto Mitra
15:40	OP 01 - <b>Tânia Costa:</b> Role of collagen organization in cancer		OP 08 - <b>Ellen Vercauteren:</b> The SGLT2 inhibitor Empagliflozin promotes post-stroke functional recovery in diabetic mice		OP 15- <b>Francesca Eoli:</b> A multiple-drug therapy benefits cognition and reduces amyloid plaques in APPNL-G knock-in mice, in a sex-specific manner
15:50	OP 02 - <b>Elory Leonard:</b> Human skin mesenchymal stem cells provide a unique niche for acute myeloid leukemia-initiating stem cells		OP 09 - <b>David Moulæe Conradsson:</b> mHealth delivered physical activity for people post stroke or transient ischaemic attack. Is it feasible and acceptable?		OP 16 - <b>Javier Oltra:</b> The impact of combined olfactory and cognitive impairments on dementia risk
16:00	OP 03 - <b>Anna-Karin Welmer:</b> Feasibility of the "Preventing functional decline in acutely hospitalized older patients (PREV_FUNC)" study - A three-armed randomized controlled pilot trial		OP 10 - <b>Ann Frisinger:</b> A model for implementing AI-systems in the clinic		OP 17 - <b>Cen Chen:</b> Time-varying use of cholinesterase inhibitors and memantine and predicted Time-varying use of cholinesterase inhibitors and memantine and predicted cognitive trajectories in individuals with Alzheimer's and Mixed dementia: A real-world analysis based on
16:10	OP 04 - <b>Marion Lieberman:</b> Follow-up of expressive language and general development at 12, 18 and 36 months for children with no canonical babbling at 10 months		OP 11 - <b>Samsul Arefin:</b> Reduced cardiotoxicity by mPGES-1 inhibition in human ex-vivo model of cancer treatment		OP 18 - <b>Andrew Dwi Permana:</b> Enhancing the Prediction of Cognitive Decline by Integrating F-FDG PET Radiomics Features and Clinical Variables Using Machine Learning
16:20	OP 05 - <b>Estelle Pitti:</b> An experimental setup for assessment of traction force and associated fetal brain deformation in vacuum-assisted delivery		OP 12 - <b>Daniel Andersson:</b> The Karolinska Pilot Study Comparing Invasive Coronary Angiography to Cardiac Magnetic Resonance Imaging (KaPSICA-CMR)		OP 19 - <b>Ghada Nouairia:</b> Serum based test to assist preoperative decision making in suspected gall bladder cancer
16:30	OP 07 - <b>Rickard Strandberg:</b> CORE: a new risk score measuring GGT, AST, and ALT outperforms FIB-4 when predicting the risk of cirrhosis in a primary care setting		OP 13 - <b>Anna Witasp:</b> Clonal hematopoiesis - a novel opportunity to target cardiovascular disease in chronic kidney disease?		OP 20 - <b>Susanna Österman:</b> Effectiveness of guided internet-based cognitive behavioural therapy for health anxiety: a cohort study in routine psychiatric care
16:40			OP 14 - <b>Emelie Dillenbeck:</b> The PRINCESS 2 trial: A randomized study to assess the impact of ultrafast hypothermia on neurologic function in out-of-hospital cardiac arrest with initial shockable rhythm		OP 21 - <b>Oihane Garcia-Irigoyen:</b> Hepatocyte-specific depletion of the corepressor GPS2 alleviates atherosclerosis and dyslipidemia in mice
17:00 →	<b>Mingle, music, poster and core facility exhibition</b> Music: Stockholms Musikpedagogiska Institut (SMI), Campus Flemingsberg				

## Friday, Nov 22<sup>nd</sup>

*Jan-Åke Gustafsson lecture hall*

*Erna Möller lecture hall*

*Gene lecture hall*

08:30–9:15	<b>The microbiome in infection, protection and antibiotic treatment</b> Chair: Malin Flodström Tullberg Co-Chair: Camilla Lagheden		<b>Oligonucleotide therapy</b> Chair: Joel Nordin Co-Chair: Joakim Dillner		<b>Teaching and science in collaboration</b> Chair: Charlotte Leanderson Co-chair: Agneta Månsson-Broberg
08:30	<b>Piotr Novak:</b> The role of microbiome in chronic infections		<b>Rula Zain:</b> From Nucleic acid modalities to advanced therapeutics and medical products (ATMP)		<b>Irene Sterpu:</b> TBL in clinical disciplines (15 min)
08:40	<b>Nagihan Bostanci:</b> Oral Microbiome and Immunity at the Forefront of Precision Care		<b>Tea Umek:</b> Oligonucleotide therapeutics in tandem-repeat diseases	08:45	<b>Jonas Nordquist:</b> From PBL to TBL (15 min)
08:50	<b>Viveka Nordberg:</b> New strategies to identify virulent and multidrug-resistant bacteria in neonates in low-resource settings		<b>Yang Liu / Maria Morello:</b> Gene editing in sickle cell disease	09:00	Questions and discussion (15 min)
09:00–09:10	Questions and discussion		Questions and discussion		

9:15–09:55	<b>Oral presentations OP 22–OP 25 (Jan-Åke Gustafsson lecture hall)</b> Chair: Jonas Fuxe Co-chair: Kajsa Bohlin		<b>Oral presentations OP 26–OP 29 (Erna Möller lecture hall)</b> Chair: Lars Henningsohn Co-chair: Nicole Marquardt		<b>Oral presentations OP 30–OP 33 (Gene lecture hall)</b> Chair: Erik Melén Co-chair: Ewa Stenwall
09:15	OP 22- <b>Nicole Wild</b> : Distinct Granzyme A high Natural Killer cell populations in the ileum are linked to gut inflammation		OP 26 - <b>Aline Pfefferle</b> : Pan-cancer profiling of tumor-infiltrating natural killer cells through transcriptional reference mapping		OP 30 - <b>Rosaleena Mohanty</b> : Differential cerebrovascular pathways associated with distinct neurodegenerative patterns in Alzheimer's disease
09:25	OP 23 - <b>Zara Ahmad Khan</b> : The mechanism of survival of pancreas tumor microbes and their ability to metabolized chemotherapy drugs		OP 27 - <b>Caroline Eriksson</b> : Generation and evaluation of IL-2 transgene constructs to promote autonomous NK cell persistence for improved NK		OP 31 - <b>Annegret Habich</b> : Association between gene expression and neurodegeneration in dementia with Lewy bodies
09:35	OP 24 - <b>Kai Bao</b> : Subgingival Host-Microbial Signatures in At-Risk Children for Periodontitis		OP 28 - <b>Nutsa Burduli</b> : Genome-wide CRISPR-Cas9 screen for the elucidation of novel mediators of cytotoxicity and cytokine production in natural killer cells		OP 32 - <b>Filip Christiansen</b> : AI-driven ultrasound detection of ovarian cancer that generalizes: an international multicentre validation study
09:45	OP 25 - <b>Fredrik Johansson</b> : Early change in Specific Depression Symptoms and Later Outcome in Internet-Delivered Psychotherapy for Depression: A Cohort Study and Cross-lagged Network Analysis		OP 29 - <b>Mahin Ghorbani</b> : The role of oral microbiota in mRNA-vaccine effectiveness in immunocompromised individuals – Result from the COVAXID trial		OP 33 - <b>Shivam Chandel</b> : Generation of stem cell derived islets with enhanced purity and functionality for treatment of type-1 diabetes
10:00–10:30	<b>Coffee, poster and core facility exhibition</b>				
10:30–11:30	<b>Keynote lecture: "Challenges in collaboration" with Annika R Malmberg</b> Chairs: Matti Sällberg and Annika Bergquist (Jan-Åke Gustafsson, Erna Möller, DNA and Gene lecture hall)				
11:30	<b>Preparedness for future pandemics</b> Chair: Christian Molnar Co-chair: Sara Gredmark-Russ		<b>Clinical application of tracing methods to understand disease</b> Chair: Daniel Ferreira Co-chair: Amit Kumar		<b>Translating AI research results into the clinic</b> Chair: Fernando Seoane Co-chair: Farhad Abtahi
11:30	<b>Annika Karlsson</b> : Current approaches at ANA Futura to prepare for future pandemics		<b>Uwe Tietge</b> : Metabolomics in clinical chemistry		<b>Alireza Salehi</b> : Standardization of Health-Related Products and Services with Testbeds and Digital Platforms Connected to AI Services and Cybersecurity
11:40	<b>Hans-Gustaf Ljunggren</b> : What did we learn from COVID-19 for future pandemics?		<b>Eric Westman</b> : Neuroimaging biomarkers in Alzheimer's disease		<b>Martin Jacobson &amp; Greg Winski</b> : Reliable prediction of intraoperative hypotension using machine learning
11:50	<b>Maria Cronhjort</b> : COVID-19 pandemic - critically ill patients treatment and risc of thromboemolic manifestations		<b>Nicolas Tardif</b> : Stable isotope tracingand its clinical applications		<b>Jacob Emad-Andersson</b> : Improving HF care in Stockholm through AI-driven analysis of ECG
12:00–12:10	Questions and discussion		Questions and discussion		Questions and discussion
12:15 – 12:30	<b>Research Awards &amp; Closing remarks</b> Annika Bergquist, CIMED Director, Prof., MD. MedH, Karolinska University Hospital Huddinge and Matti Sällberg, Dean KI South (Jan-Åke Gustafsson, Erna Möller, DNA and Gene lecture hall)				