

Thursday, Nov 21st

07:30–08:15	Registration
08.15–08.25	WELCOME! Dean KI South, Matti Sällberg Karolinska University Hospital Director for Research, Education and Innovation, Olof Akre Site Director Huddinge, Karolinska University Hospital Huddinge, Annika Bergquist (Jan-Åke Gustafsson, Erna Möller, DNA and 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	Tissue Immunology Chair: Laura Palma Medina Co-chair: Magda Lourda		Innovation and technology Chair: Torkel Brismar Co-chair: Therese Djärv		Health vs Oral Health – The connection? Chair: Abhishek Kumar Co-chair: Ann Langius-Eklöf
08:30	Marcus Buggert: iHOPE and relevance for the clinic		Andreas Claesson: Drones in out-of-hospital cardiac arrest – a novel life saving treatment methodology		Bodil Lund: Oral infections and influence on sepsis
08:40	Helen Kaibe: Tissue-resident T cells in pancreatic cancer		Karin Dembrower: Artificial intelligence for breast cancer detection in screening mammography		Gerd Faxén-Irving: Nutrition and oral health
08:50	Mattias Carlsten: Redirecting NK cell homing to the bone marrow to improve the treat efficacy of myeloid leukemia		Gustaf Ahlén: The pre-GMP facility at KI South: How do I get my product into the clinic?		Mats Trulsson: 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	Implementation of AI in care – risks and opportunities Chair: Filip Christiansen Co-chair: Mikael Norman		Cellmigration and metastasis in cancer Chair: Michal Jacek Sobkowiak Co-chair: Jonas Fuxe		Senescence across ages Chair: Ylva Ambrosiani Co-chair: Peter Stenvinkel
09:15	Elisabeth Epstein: Implementing Computer Aided Diagnostic support for ultrasound assessment of ovarian tumours		Jennie Engstrand: Metastasis to the liver – a clinical perspective		Kajsa Bohlin: Neonatal stress and aging
09:25	Stephanie Robertson: Stratipath – implementing AI-based diagnostic support for Oncology		Marco Gerling: Decoding the capsule: a new perspective on liver metastasis and patient survival		Federico Pietrocola: Can we reverse aging?
09:35	Emma Svennberg (MedH) - AI in detecting atrial fibrillation		Sara Schmidt: Antioxidants and metastasis		Gabriel Oniscu: Targeting senescence at organ level
09:45–09:55	Questions and discussion		Questions and discussion		Questions and discussion
10:00–10:30	Coffee, poster and core facility exhibition				
10:30–11:15	Clinical challenges and new therapies in hematological diseases Chair: Arnika Wagner Co-chair: Rula Zein		How to obtain top grants: lessons learnt from recent grant awardees Chair: Vanessa Lundin Co-chair: Maria Eriksdotter		Centre for Bioinformatics and Biostatistics – Educational program Chairs: Carsten Daub & Hannes Hagström
10:30	Mikael Sundin: New therapies in hematological diseases		Pauliina Dandimopoulou: Safeguarding female Fertility -development of human-relevant in vitro tools for reproductive toxicity (SAFER)		Carsten Daub & Michael Ingre: Why use CBB for your needs in bioinformatics and biostatistics
10:40	Yenan Bryceson: Diagnosing uncommon genetic mutations in hematological diseases		Jenny Mjösberg: GUT-SEQ: Single-cell analysis of intestinal lymphocytes reveals targets for treatment of inflammatory bowel disease	10:35	Laura Vossen Engblom: How to avoid an angry statistician and save money - the importance of a structured analysis plan before starting your project
10:50	Stephan Mielke: Advancements in CAR-T cell therapy		Samir El Andaloussi: In situ engineering of extracellular Vesicles for targeted delivery of biotherapeutics		
11:00–11:10	Questions and discussion		Questions and discussion	10:55	Michael Ingre: Do and don't:s - what is a power calculation and how do I do it?
11:15–12:00	The new survivors – long term outcomes when growing up after severe disease Chair: Milan Chromek Co-chair: Carl Jorns		Basic and clinical aspects of diabetes and complications Chair: Rongrong Fan Co-chair: Daniel Andersson		How can physical activity prevent and treat symptoms of severe illness? Chair: Ulrica Nilsson Co-chair: Sofia Vikström
11:15	Mikael Norman: Prediction and prospects after preterm birth		Niklas Mejhert: Adipocyte subpopulations and insulin sensitivity		Ann-Helen Patomella: Physical and everyday activities to prevent stroke- an intervention study
11:25	Katarina Grossmann: Long term outcome after hypothermia-treated hypoxic-ischaemic encephalopathy		Cecilia Morgantini: Immunological response of diabetic patients with chronic foot ulcers		Elisabeth Rydwik: Physical activity and exercise for frail older people
11:35	Jeanette Winterling: Innovations for teens and young adults surviving cancer		Ping Chen: Dissecting the complexity of human data through data-driven research		Poorna Anand: 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	Lunch, poster and core facility exhibition				

13:10–13:55	Inflammation and neurodegenerative diseases (Alzheimer's) Chair: Sumonto Mitra Co-chair: Charlotte Ytterberg		Regeneration and repair – how hard can it be? Chair: Shivam Chandel Co-chair: Rachael Sugars		Future of Flemingsberg – centers of excellence Chair: Annika Tibell Co-chair: Maria Eriksdotter
13:10	Marianne Schultzberg: Inflammation and its resolution	13:10	Fredrik Lanner: Cells as a conduit for tissue and organ repair	13:10	Johnny Högberg: Future of Flemingsberg
13:20	Sverker Johansson: Balance training intervention in people with MS	13:25	Georgios Tsilingaridis: Pulp revitalisation for regeneration and repair of the tooth	13:20	Knut Steffensen: ATMP center Karolinska
13:30	Ellen Iacobaeus: Mesenchymal stromal cells and Multiple Sclerosis- clinical and experimental studies	13:40	Questions and discussion	13:30	Petter Woll: 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	Keynote lecture "My failures as a researcher" with Jonas Ludvigsson Chairs: Annika Bergquist (Jan-Åke Gustafsson, Erna Möller, DNA and Gene lecture hall)				
15:00–15:40	Coffee, poster and core facility exhibition				
15:40–16:50	Oral presentations OP 01–OP 07 (Jan-Åke Gustafsson lecture hall) Chairs: Bodil Lund Co-chair: Elisabeth Epstein		Oral presentations OP 08–OP 14 (Erna Möller lecture hall) Chairs: Petter Höglund Co-chair: Jacob Hollenberg		Oral presentations OP 15–OP 21 (Gene lecture hall) Chairs: Maria Ankarcona Co-chair: Sumonto Mitra
15:40	OP 01 - Tânia Costa: Role of collagen organization in cancer		OP 08 - Ellen Vercauteren: The SGLT2 inhibitor Empagliflozin promotes post-stroke functional recovery in diabetic mice		OP 15 - Francesca Eoli: 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 - Elory Leonard: Human skin mesenchymal stem cells provide a unique niche for acute myeloid leukemia-initiating stem cells		OP 09 - David Moulæe Conradsson: mHealth delivered physical activity for people post stroke or transient ischaemic attack. Is it feasible and acceptable?		OP 16 - Javier Oltra: The impact of combined olfactory and cognitive impairments on dementia risk
16:00	OP 03 - Anna-Karin Welmer: Feasibility of the "Preventing functional decline in acutely hospitalized older patients (PREV_FUNC)" study - A three-armed randomized controlled pilot trial		OP 10 - Ann Frisinger: A model for implementing AI-systems in the clinic		OP 17 - Cen Chen: 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 - Marion Lieberman: 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 - Samsul Arefin: Reduced cardiotoxicity by mPGES-1 inhibition in human ex-vivo model of cancer treatment		OP 18 - Andrew Dwi Permana: Enhancing the Prediction of Cognitive Decline by Integrating F-FDG PET Radiomics Features and Clinical Variables Using Machine Learning
16:20	OP 05 - Estelle Pitti: An experimental setup for assessment of traction force and associated fetal brain deformation in vacuum-assisted delivery		OP 12 - Daniel Andersson: The Karolinska Pilot Study Comparing Invasive Coronary Angiography to Cardiac Magnetic Resonance Imaging (KaPSICA-CMR)		OP 19 - Ghada Nouairia: Serum based test to assist preoperative decision making in suspected gall bladder cancer
16:30	OP 07 - Rickard Strandberg: 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 - Anna Witasz: Clonal hematopoiesis - a novel opportunity to target cardiovascular disease in chronic kidney disease?		OP 20 - Susanna Österman: Effectiveness of guided internet-based cognitive behavioural therapy for health anxiety: a cohort study in routine psychiatric care
16:40			OP 14 - Emelie Dillenbeck: 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 - Oihane Garcia-Irigoyen: Hepatocyte-specific depletion of the corepressor GPS2 alleviates atherosclerosis and dyslipidemia in mice
17:00 →	Mingle, music, poster and core facility exhibition Music: Stockholms Musikpedagogiska Institut (SMI), Campus Flemingsberg				

Friday, Nov 22 nd				
Jan-Åke Gustafsson lecture hall		Erna Möller lecture hall		Gene lecture hall
08:30–9:15	The microbiome in infection, protection and antibiotic treatment Chair: Malin Flodström Tullberg Co-Chair: Camilla Lagheden		Oligonucleotide therapy Chair: Joel Nordin Co-Chair: Joakim Dillner	Teaching and science in collaboration Chair: Charlotte Leanderson Co-chair: Agneta Månsson-Broberg
08:30	Piotr Novak: The role of microbiome in chronic infections		Rula Zain: From Nucleic acid modalities to advanced therapeutics and medical products (ATMP)	Irene Sterpu: TBL in clinical disciplines (15 min)
08:40	Nagihan Bostanci: Oral Microbiome and Immunity at the Forefront of Precision Care		Tea Umek: Oligonucleotide therapeutics in tandem-repeat diseases	08:45 Jonas Nordquist: From PBL to TBL (15 min)
08:50	Viveka Nordberg: New strategies to identify virulent and multidrug-resistant bacteria in neonates in low-resource settings		Yang Liu / Maria Morello: Gene editing in sickle cell disease	09:00
09:00–09:10	Questions and discussion		Questions and discussion	Questions and discussion (15 min)
9:15–09:55	Oral presentations OP 22–OP 25 (Jan-Åke Gustafsson lecture hall) Chair: Jonas Fuxe Co-chair: Kajsa Bohlin		Oral presentations OP 26–OP 29 (Erna Möller lecture hall) Chair: Lars Henningsohn Co-chair: Nicole Marquardt	Oral presentations OP 30–OP 33 (Gene lecture hall) Chair: Erik Melén Co-chair: Ewa Stenwall
09:15	OP 22- Nicole Wild: Distinct Granzyme A high Natural Killer cell populations in the ileum are linked to gut inflammation		OP 26 - Aline Pfefferle: Pan-cancer profiling of tumor-infiltrating natural killer cells through transcriptional reference mapping	OP 30 - Rosaleena Mohanty: Differential cerebrovascular pathways associated with distinct neurodegenerative patterns in Alzheimer's disease
09:25	OP 23 - Zara Ahmad Khan: The mechanism of survival of pancreas tumor microbes and their ability to metabolized chemotherapy drugs		OP 27 - Caroline Eriksson: Generation and evaluation of IL-2 transgene constructs to promote autonomous NK cell persistence for improved NK	OP 31 - Annegret Habich: Association between gene expression and neurodegeneration in dementia with Lewy bodies
09:35	OP 24 - Kai Bao: Subgingival Host-Microbial Signatures in At-Risk Children for Periodontitis		OP 28 - Nutsa Burduli: Genome-wide CRISPR-Cas9 screen for the elucidation of novel mediators of cytotoxicity and cytokine production in natural killer cells	OP 32 - Filip Christiansen: AI-driven ultrasound detection of ovarian cancer that generalizes: an international multicentre validation study
09:45	OP 25 - Fredrik Johansson: 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 - Mahin Ghorbani: The role of oral microbiota in mRNA-vaccine effectiveness in immunocompromised individuals – Result from the COVAXID trial	OP 33 - Shivam Chandel: Generation of stem cell derived islets with enhanced purity and functionality for treatment of type-1 diabetes
10:00–10:30	Coffee, poster and core facility exhibition			
10:30–11:30	Keynote lecture: "Challenges in collaboration" with Annika R Malmberg Chairs: Matti Sällberg and Annika Bergquist (Jan-Åke Gustafsson, Erna Möller, DNA and Gene lecture hall)			
11:30	Preparedness for future pandemics Chair: Christian Molnar Co-chair: Sara Gredmark-Russ		Clinical application of tracing methods to understand disease Chair: Daniel Ferreira Co-chair: Amit Kumar	Translating AI research results into the clinic Chair: Fernando Seoane Co-chair: Farhad Abtahi
11:30	Annika Karlsson: Current approaches at ANA Futura to prepare for future pandemics		Uwe Tietge: Metabolomics in clinical chemistry	Alireza Salehi: Standardization of Health-Related Products and Services with Testbeds and Digital Platforms Connected to AI Services and Cybersecurity
11:40	Hans-Gustaf Ljunggren: What did we learn from COVID-19 for future pandemics?		Eric Westman: Neuroimaging biomarkers in Alzheimer's disease	Martin Jacobson & Greg Winski: Reliable prediction of intraoperative hypotension using machine learning
11:50	Maria Cronhjort: COVID-19 pandemic - critically ill patients treatment and risc of thromboemolic manifestations		Nicolas Tardif: Stable isotope tracing and its clinical applications	Jacob Emad-Andersson: 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	Research Awards & Closing remarks 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)			