



# Mayo Clinic–Karolinska Institutet 23rd Annual Scientific Research Meeting

September 7–8, 2017

At Karolinska Institutet and Karolinska University Hospital, Stockholm, Sweden

## Social Events and Mixers

### Wednesday, September 6, 2017

7:00–9:00 pm	Welcome Dinner for Mayo Clinic guests, Karolinska Session Chairs and Invited Guests <b>(by invitation only)</b>	Nanna Svartz, Aula Medica, Karolinska Institutet (KI)
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### Thursday, September 7, 2017

6:15–9:00 pm	Poster Session/Conference Reception	Restaurant Karolina, Karolinska vägen 10, Karolinska University Hospital (KUH). Please note that registration is necessary.
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### Friday, September 8, 2017

1:30–3:00 pm	Optional: “Hard hat” guided tour of BioClinicum, the new research building BioClinicum at the New Karolinska Hospital	Please note that registration is necessary. Limited number of participants.
1:30–3:00 pm	Optional: “Hard hat” guided tour of the New Karolinska Hospital	Please note that registration is necessary. Limited number of participants.
3:00–4:30 pm	Optional: “Hard hat” guided tour of the New Karolinska Hospital	Please note that registration is necessary. Limited number of participants.

### Saturday, September 9, 2017

8:00 am	Mayo Clinic staff Wrap-up Meeting	Venue: Elite Palace Hotel Cafeteria
2:00 pm	Optional: Guided Tour of the Vasa Museum for Mayo Clinic Guests	Please note that registration is necessary.
4:30 pm	Optional: Guided Tour of the Nobel Museum for Mayo Clinic Guests	Please note that registration is necessary. Contact Jacquelyn Gosse

Twitter: #mayokiconf

WIFI (Karolinska Institutet): KI-Guest, password: Stockholm18

WIFI (Karolinska University Hospital): password: K-Guest

Save the date for the 24th Annual Scientific Research Meeting, September 10-11, 2018, in Rochester, Minnesota, USA!



## Scientific Program

**Opening/Plenary Session: Thursday, September 7, 2017**

**Venue: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet**

Program Chairs and Moderators: Dr. Martin Schalling (KI) and Dr. Eric Wieben (MC)

<b>7:45 am</b>	Registration	
<b>8:30 am</b>	Leadership Greetings	Dr. Ole Petter Ottersen (KI) Dr. Melvin Samsom (KUH)
<b>9:00 am</b>	Overview and Presentation of the Evaluation of the KI-Mayo Collaboration	Dr. Eric Wieben (MC) Dr. Martin Schalling (KI) Dr. Terese Stenfors (KI) Dr. Katrin Frimannsdottir (MC)
<b>9:25 am</b>	<b>Title:</b> Restoring Function: Neural Engineering Neuromodulation Surgery for Brain and Spinal Cord	Dr. Kendall Lee (MC) Dr. Kevin Bennet (MC)
<b>10:05 am</b>	<b>Title:</b> Novel Disorders of Brain Metabolism Discovered Through Clinical Whole Genome Sequencing	Dr. Anna Wedell (KI)
<b>10:45 am</b>	Break	
<b>11:15 am</b>	<b>David H. Murdock Lecture</b> Introduced by Sree Nair, MD, PhD, David H. Murdock Dole Food Company Professor of Nutrition Science <b>Title:</b> Electricity - An Elemental Principle of Life (Did Dr. Frankenstein Get it Right?)	Dr. P. Darrell Neufer Director, East Carolina Diabetes and Obesity Institute Professor, Departments of Physiology and Kinesiology
<b>12:15 pm</b>	Light Lunch	Outside lecture hall: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet
<b>1:00 pm</b>	Breakout session locations are noted below	

**Friday, September 8, 2017**

**Venue: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet**

<b>noon</b>	Light Lunch	Outside lecture hall: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet
<b>12:30–1:15 pm</b>	<b>Title:</b> How Mayo Clinic History and Values Impact Our Facilities	Matthew D. Dacy (MC) Director, Mayo Clinic Heritage Hall Assistant Professor, History of Medicine

## Theme-Related Breakout Sessions

### Diabetes and Metabolism, **Thursday, September 7, 2017**

Venue: Rockefeller, Nobelsväg 11

Program Chairs and Moderators: Dr. Olav Rooyackers (KI), Dr. Jorge Ruas (KI), Dr. K. Sreekumaran Nair (MC), Dr. Adrian Vella (MC)

1:00 pm	Welcome and Overview of Session	Dr. Sree Nair (MC) Dr. Olav Rooyackers (KI)
<b>SESSION TOPIC: NUTRITION</b>		Moderator: Dr. Olav Rooyackers (KI)
1:10 pm	Effect of N-3 fatty Acids on Peripheral Blood Leucocytes DNA Methylation	Dr. Jan Palmblad (KI)
1:30 pm	O-GlcNAc: A New Mechanism for How The Brain Controls Food Intake	Dr. Olof Lagerlöf (KI)
<b>SESSION TOPIC: SKELETAL MUSCLE</b>		Moderator: Dr. Adrian Vella (MC)
1:50 pm	De Novo Synthesis of Muscle Ceramides and Insulin Signaling and Glucose Utilization	Dr. Kelli Lytle (MC)
2:10 pm	Identification of Novel Regulators of Skeletal Muscle Oxidative Metabolism	Dr. Jorge Ruas (KI)
2:30 pm	Break	
3:00 pm	The Role of the Unfolded Protein Response on the Acute Response to Exercise with Age	Dr. Corey R. Hart (MC)
3:20 pm	Skeletal Muscle and Splanchnic Exchange of Metabolites in Response to Insulin Deficiency and Hyperglucagonemia	Haleigh James (MC)
3:40 pm	Prolonged Adaptation of Muscle Protein Kinetics in the Critically ill	Dr. Olav Rooyackers (KI)
4:00 pm	Effects of Neurturin on Neuromuscular Junction and Muscle Metabolism	Dr. Jorge Correia (KI)
4:20 pm	General Conclusion	All

### Diabetes and Metabolism, **Friday, September 8, 2017**

Venue: Farmakologi, Nanna Svartz väg 2

Program Chairs and Moderators: Dr. Olav Rooyackers (KI), Dr. Jorge Ruas (KI), Dr. K. Sreekumaran Nair (MC), Dr. Adrian Vella (MC)

8:30 am	Welcome and Overview of Session	Dr. Adrian Vella (MC) Dr. Jorge Ruas (KI)
<b>SESSION TOPIC: BETA CELL AND INSULIN 1</b>		Moderator: Dr. Sree Nair (MC)
8:40 am	Reconstruction of Pulsatile Insulin Secretion into the Portal Vein Using Peripheral C-peptide Concentrations	Dr. Adrian Vella (MC)
9:00 am	Effect of GLP-1 Receptor Antagonism Using Exendin-9,39 in the Fasting State on the Subsequent $\beta$ -cell Response to an Intravenous Glucose Challenge in Nondiabetic	Dr. M. Daniela Hurtado Andrade (MC)



	Humans	
<b>9:20 am</b>	A Decrease in Insulin Action, but Not in $\beta$ -cell Function, Impairs Glucagon Suppression in Non-diabetic Humans	Nana Esi Kittah (MC)
<b>9:40 am</b>	Impact of Insulin Deprivation on Brain Mitochondrial Functions and Proteomic Modifications in Streptozotocin (STZ) Diabetic Mice	Dr. Manjunatha Shankarappa (MC)
<b>10:00 am</b>	Break	
<b>SESSION TOPIC: BETA CELL AND INSULIN 2</b>		Moderator: Dr. Michael Jensen (MC)
<b>10:30 am</b>	Bottom-Up Islet Engineering	Dr. Quinn P. Peterson (MC)
<b>10:50 am</b>	Genetic Enhancement of the Beta Cell Circadian Clock Attenuates Glucose Intolerance and Beta Cell Failure in Response to Diet-induced Obesity	Dr. Aleksey Matveyenko (MC)
<b>SESSION TOPIC: OBESITY</b>		<b>Moderator: Michael Jensen (MC)</b>
<b>10:50 am</b>	Association of Circulating levels of Spexin, a Novel Adipokine, with Obesity and Cardiometabolic Risk in Children	Dr. Seema Kumar (MC)
<b>11:20 am</b>	Skeletal Muscle Akt Activation in Lean and Obese Subjects	Paola Ramos (MC)
<b>11:50 am</b>	Adjourn for Lunch	
<b>Noon</b>	Light Lunch	Outside lecture hall: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet
<b>12:30–1:15 pm</b>	How Mayo Clinic History and Values Impact Our Facilities	Matthew D. Dacy, Director, Heritage Hall, Assistant Professor, History of Medicine
<b>SESSION TOPIC: OTHER TOPIC IN DIABETES AND METABOLISM</b>		<b>Moderator: Dr. Jorge Ruas (KI)</b>
<b>1:50 pm</b>	Glucose-lowering Treatment in Individuals with and without Schizophrenia	Dr. Sven Eriksson (KI)
<b>2:10 pm</b>	Management of Type 1 Diabetes in Pregnancy and Childbirth: A Cross-Sectional Study	Alexandra Goldberg (KI)
<b>2:30 pm</b>	From Inflammation to Bone- RNA expression Patterns in a Bone Chamber Model	Dr. Jörgen Åstrand (KI)
<b>2:50 pm</b>	Collaborative Discussions and Next Steps	All

## Diabetes and Metabolism Posters, **Thursday, September 7, 2017, 6:15 pm**

Venue: Restaurant Karolina, Karolinska vägen 10, Karolinska University Hospital

How to Create a Network to Empower Pregnant Women with Insulin Requiring Diabetes	Dr. Karin Axell (KI) Dr. Carina Ursing (KI)
The Role of MicroRNA 210 in Wound Healing in Diabetes	Sampath Kumar Narayanan (KI)

## Education, **Thursday, September 7, 2017**

Venue: Strixsalen, von Eulers väg 4 A/B

Program Chairs and Moderators: Dr. Gunnar Nilsson (KI) and Dr. Jim Maher (MC)

1:00 pm	Welcome and Overview of Session	Dr. Gunnar Nilsson (KI)
	<b>Education Infrastructure Theme</b>	
1:05 pm	Academy of Educational Excellence – Rewarding INPUT to Advance OUTPUT	Dr. Heather Billings (MC)
1:25 pm	Internationalisation of the Curriculum (IoC) – A Framework for Action	Dr. Jennifer Valcke (KI) Karin Båge (KI)
1:45 pm	Mayo's Education Data Warehouse – Reporting and Analytics	Aaron Pendl (MC) Jennifer Sayward (MC)
2:05 pm	How Students Communicate in an Interprofessional Setting	Karin Björklund (KI)
2:25 pm	Break	
	<b>Teaching Theme</b>	
2:50 pm	Scalability and Dimensionality of an Educational Environment - A Mokken Scale Analysis	Dr. Per J. Palmgren (KI)
3:10 pm	The Power of Words: The Effect of Chronometric Pressure on Task Performance	Becca Gas (MC) Dr. David Cook (MC)
3:30 pm	PhD Students' Experiences of Supervision	Dr. Juha Nieminen (KI)
3:50 pm	Preliminary Comparison of Student Workload Across Different Robotic Trainers	Dr. Bethany Lowndes (MC)
4:10 pm	Medical Students' Experiences of Emotionally Challenging Situations Lead to Uncertainty	Annalena Lönn (KI)
4:30 pm	Interprofessional Education – Plan, Do Assess	Dr. Heather Billings (MC) Dr. Suzanne Norby (MC) Dr. Eva Broberger (KI) Margaretha Forsberg Larm (KI)
4:50 pm	Adjourn	

## Education, **Friday, September 8, 2017**

Venue: Samuelssonsalen, Tomtebodavägen 6

Program Chairs and Moderators: Dr. Annika Östman Wernerson (KI) and Dr. Heather Billings (MC)

8:45 am	Welcome and Overview of Session	Dr. Annika Östman Wernerson (KI)
	<b>Education Evaluation and Innovation</b>	



	Theme	
8:50 am	Daunted by Data? Integrating Learning Analytics into Health Professions Education	Becca Gas (MC) Jeannie Poterucha Carter (MC) Dr. Richard Zimmerman (MC)
9:10 am	Consistent Assessment of Biomedical Science Degree Projects	Dr. Annika Karlsson (KI) Dr. Jenny Flygare (KI)
9:30 am	Repurpose, Reuse: MayoTalks – a Mayo Clinic Education Rapid Prototype Development Case Study	Barbara Baasch Thomas (MC) Jeannie Poterucha Carter (MC)
9:50 am	Stories from Educators: Sharing Experiences	Teresa Sörö (KI) Elissa Hall (MC)
10:10 am	Break	
10:30 am	Teaching Innovation in an Interdisciplinary Setting	Dr. Jan Olov Höög (KI)
10:50 am	Open Round Table	
11:30 am	Adjourn	
12:00 pm	Light Lunch	Outside lecture hall: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet
12:30–1:15 pm	<b>Title:</b> How Mayo Clinic History and Values Impact Our Facilities <b>Keynote speaker:</b> Matthew D. Dacy, Director, Mayo Clinic Heritage Hall Assistant Professor, History of Medicine	Venue: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet

### Education Posters, **Thursday, September 7, 2017, 6:15 pm**

**Venue: Restaurant Karolina, Karolinska vägen 10, Karolinska University Hospital**

Development and Evaluation of an Objective Structured Practical Examination (OSPE) for Assessment of Practical Skills in Biomedical Laboratory Science	Dr. Catharina Hultgren (KI)
Just a Click Away: Using Digital Spaces to Promote Collaboration and Creativity in Doctoral Students	Dr. Cormac McGrath (KI) Dr. Cecilia Gotherström (KI) Dr. Anthony Windebank (MC) Dr. Natalia Landazuri (KI)
Authentic Interprofessional Training for Nursing and Biomedical Science Students	Pia Andersson (KI) Carina Eneström (KI) Dr. Katri Manninen (KI)
Case Method – Crucial Aspects: Stepping Stone Course	Annika Sääf-Rothoff (KI) Dr. Carina Ursing (KI)
Benefits of an Additional Medical Education Program: As Perceived by Immigrated Physicians	Linda Stuesson (KI)
Stepping Stone Courses to Increase Pedagogic Competence at Workplace Based Education	Dr. Ewa Ehrenborg (KI) Dr. Jenny Flygare (KI)
Idea to Service Business – A Course Exploring the Particularities of Innovation in Healthcare Through a Design Approach	Dr. Hanna Jansson (KI) Cecilie Hilmer (KI)



EIT Health Innovation Day at KI: Implementing Interprofessional Introductory Innovation Education For All Students	Anneliese Lilienthal (KI) Cecilie Hilmer (KI) Dr. Jan-Olov Höög (KI) Dr. Hanna Jansson (KI)
A Surgical Simulation Education Curriculum: Ready for Everybody?	Becca Gas (MC)
Advanced Laparoscopic Task for Improving Skills for Surgical Trainees	Becca Gas (MC) Dr. Bethany Lowndes (MC) Dr. Susan Hallbeck (MC)
The Dirty Dozen: 12 Tips for Implementing a Successful OSCE	Becca Gas (MC)
PathWays: A Collaborative, Online Platform for International Pathology	Dr. Andrew Norgan (MC) Elisa Hall (MC)
Build Fast, Build Smart: Mayo Education Innovation's Approach to Problem Solving	Barbara Baasch Thomas (MC) Jeanne Poterucha Carter (MC)
Education as a Catalyst for Innovation and Collaboration: Novel Solutions for Precision Medicine	Karen Weavers (MC)

## Innovation, Thursday, September 7, 2017

### Venue: Gard-Aulan, Nobels väg 18

Program Chairs and Moderators: Dr. Carl Johan Sundberg (KI), Dr. Lilian Wikström (KI), Stefan Vlachos (KUH) and Julie Henry (MC)

*Focus on Artificial Intelligence and Innovation in Medicine*

AI-based Health Care Products		
1:00 pm	Welcome and Introduction	Dr. Lilian Wikström (KI) Julie Henry (MC) Dr. Carl Johan Sundberg (KI)
1:15 pm	Prognostics: PATHFx - An Adaptive Clinical Decision Support in Orthopedic Oncology	Dr. Rikard Wedin (KI)
1:30 pm	Lexplore: Screening for Dyslexia Using Eye Tracking During Reading	Dr. Mattias Nilsson (KI)
1:45 pm	Northern Lights: A Novel Approach to Select the Best Individual Antidepressant Treatment	Dr. Stefan Spulber (KI)
2:00 pm	HealthiHabits: How Artificial Intelligence Transforms Health Care and Medicine	Dr. Christian Guttman (KI)
2:15 pm	Computerized History Taking	Dr. Kajsa Mullersdorf (KI)
2:30 pm	Break	
3:00 pm	Introduction: How Can AI Address Clinical Needs?	Dr. Carl Johan Sundberg (KI)
3:05 pm	Future Radiology: From Human Eye to A-Eye and Even AI	Dr. Juhana Hakumäki (KI)
3:20 pm	AI in Radiotherapy: Next Generation Treatment Planner	Dr. Peter Söderman (KUH)
3:35 pm	I-AID - Accelerating AI Development and Implementation in Healthcare: Setting Up An Environment for AI at Karolinska University	Tomas Borgegård (KUH)



	Hospital and SLL	
<b>3:50 pm</b>	Panel Discussion	Dr. Carl Johan Sundberg (KI) and all speakers
<b>4:30 pm</b>	Mayo Clinic Interests in Artificial Intelligence	Christopher Ross (MC), Chief Information Officer
<b>5:15 pm</b>	Adjourn	

### Innovation, Friday, September 8, 2017

#### Venue: Gard-Aulan, Nobels väg 18

Program Chairs and Moderators: Dr. Carl Johan Sundberg (KI), Dr. Lilian Wikström (KI), Stefan Vlachos (KUH) and Julie Henry (MC)

<b>10:00 am</b>	Introduction: Innovation from within a Hospital	Stefan Vlachos (KUH)
<b>10:10 am</b>	Workshop: How Do We Use Design Thinking in Healthcare Innovation?	Anna Thies (KUH)
<b>11:30 am</b>	End of Session	
<b>12:00 pm</b>	Light Lunch	Outside lecture hall: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet
<b>12:30–1:15 pm</b>	<b>Title:</b> How Mayo Clinic History and Values Impact Our Facilities <b>Keynote speaker:</b> Matthew D. Dacy, Director, Mayo Clinic Heritage Hall Assistant Professor, History of Medicine	Venue: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet

### Regenerative Medicine, Thursday, September 7, 2017

#### Venue: Atrium, Nobels väg 12 B

Program Chairs and Moderators: Dr. Karl-Henrik Grinnemo (KI), Dr. Ewa Ellis (KI), Dr. Anthony Windebank (MC), Dr. David Lott (MC)

<b>1:00 pm</b>	Welcome and Overview of Session	Dr. Ewa Ellis (KI) Dr. Anthony Windebank (MC)
<b>1:10 pm</b>	Novel Culture Systems for Enhancing Stem Cell Differentiation and Investigating Stem Cell Fate Decisions Injury	Dr. Alexander Revzin (MC)
<b>1:30 pm</b>	Clinical Use of Allogeneic Bone Marrow-derived Mesenchymal Stromal Cells (MSCs) and the Danger of Extrapolating Safety Data to MSCs of Other Sources	Dr. Katarina LeBlanc (KI)
<b>1:50 pm</b>	Senolytics: The Path to Translation	Dr. James Kirkland (MC) Dr. Tamara Tchknioia (MC) Dr. Lars Larsson (KI)
<b>2:30 pm</b>	Reconfiguring OPF+ Hydrogel Scaffolds for High Density, Aligned Neuronal Regeneration After Spinal Cord Injury	Dr. Nicolas Madigan (MC)
<b>2:50 pm</b>	Break	
<b>3:10 pm</b>	The Use of Metabolomics to Characterize the Multi-potency of Mesenchymal Stromal Cells	Dr. Ivana Bulatovic (KI)
<b>3:30 pm</b>	Adherent Flat Culture of Pancreatic Islets: A Novel Tool for High-throughput Screening in	Dr. Anna Domogatskaya (KI)





	Diabetes Research	
3:50 pm	Open Roundtable	All
4:30 pm	Adjourn	All

## Regenerative Medicine, Friday, September 8, 2017

### Venue: Atrium, Nobels väg 12 B

Program Chairs and Moderators: Dr. Karl-Henrik Grinnemo (KI), Dr. Ewa Ellis (KI),  
Dr. Anthony Windebank (MC), Dr. David Lott (MC)

9:00 am	Welcome and Overview of Session	Dr. Karl-Henrik Grinnemo (KI) Dr. David Lott (MC)
9:10 am	Bridge to Liver Regeneration	Dr. Scott Nyberg (MC)
9:30 pm	Chimeric Antigen Receptors in Cancer Immunotherapy	Dr. Isabelle Magalhaes (KI)
9:50 am	Tissue Engineering for Repair of Critical Nerve Gaps	Dr. Anthony Windebank (MC)
10:10 am	Endothelial Progenitors for Heart Regeneration	Dr. Kylie Foo (KI)
10:30 am	Creation of a Tissue Engineered, Biomimetic, Multilayered Vocal Fold Scaffold	Dr. David Lott (MC)
10:50 am	Break	
11:10 am	Immunomodulatory Properties of Human Amnion Epithelial Cell in Support to Allogenic Transplantation without Immunosuppression	Dr. Roberto Gramignoli (KI)
11:30 am	Open Roundtable	All
11:50 am	Adjourn	All
12:00 pm	Light Lunch	Outside lecture hall: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet
12:30–1:15 pm	<b>Title:</b> How Mayo Clinic History and Values Impact Our Facilities <b>Keynote speaker:</b> Matthew D. Dacy, Director, Mayo Clinic Heritage Hall Assistant Professor, History of Medicine	Venue: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet

## Regenerative Medicine Posters, Thursday, September 7, 2017, 6:15 pm

### Venue: Restaurant Karolina, Karolinska vägen 10, Karolinska University Hospital

Building the Next-Generation Workforce in Regenerative Medicine and Surgery: Results from the First 100 Medical Trainees (2014-2017)	Dr. Saranya Wyles (MC)
Targeting Safe Harbor Genomic Loci with Gene Editing Technologies to Produce Autologous Mesenchymal Stem Cell Therapies for Amyotrophic Lateral Sclerosis	Dr. Nicolas Madigan (MC)
Regenerating Axons and Blood Vessels in Tissue Engineered Scaffolds Have Defined Spatial Relationships After Complete Spinal Cord Injury in Rats	Dr. Nicolas Madigan (MC)
Designing Innovative Models of Care for Practice-integrated Regenerative Medicine	Allison Matthews (MC)



## Autoimmune Disorders, Thursday, September 7, 2017

### Venue: Hillarp, Retzius väg 8

Program Chairs and Moderators: Dr. Elisabet Svenungsson (KI), Dr. Vilija Oke (KI) and Dr. Timothy Niewold (MC)

<b>Neuro-inflammation and Drug Effects</b>		Chairs: Dr. Aaron Johnson (MC) Dr. Lou Brundin (KI)
<b>1:00 pm</b>	NMO and Neuroinflammation	Dr. Vanda Lennon (MC)
<b>1:30 pm</b>	NMO Experience from Sweden	Dr. Lou Brundin (KI)
<b>1:50 pm</b>	Anti CD20 Therapy in MS	Dr. Fredrik Pihl (KI)
<b>2:10 pm</b>	Integration omics in MS (preliminary title)	Dr. Ingrid Kockum (KI)
<b>2:30 pm</b>	Break	
<b>2:50 pm</b>	Neuro-immunology	Dr. Aaron Johnson (MC)
<b>3:10 pm</b>	Epigenomic Approach to Understand Pathogenesis of Multiple Sclerosis	Dr. Maja Jagodic (KI)
<b>3:30 pm</b>	Screening for Drug Effects on Primary Human B cells from Patients with Inflammatory Diseases – Focus on Epigenetic Regulators	Dr. Louise Berg (KI)
<b>3:50 pm</b>	Epilepsy in SLE	Dr. Magnus Andersson (KI)
<b>4:05 pm</b>	Stroke in SLE, TOAST Classification and Genetic Predisposition	Dr. Elisabet Svenungsson (KI)
<b>4:25 pm</b>	Therapy in Lupus Nephritis	Dr. Iva Gunnarsson (KI)
<b>4:45 pm</b>	Late-onset Neutropenia Following Rituximab Treatment in Systemic Lupus Erythematosus – A Role of the BAFF/APRIL Pathway	Dr. Ioannis Parodis (KI)

## Autoimmune Disorders, Friday, September 8, 2017

### Venue: Wretlingsalen, Tomtebodavägen 18 A

Program Chairs and Moderators: Dr. Vilija Oke (KI) and Dr. Timothy Niewold (MC)

<b>8:30 am</b>	Lupus Genetics	Dr. Timothy Niewold (MC)
<b>8:50 am</b>	The Association of Serum Interferon (IFN) Activity with Direct Measurements of Type I, II and III IFNs Defines Subsets within SLE	Dr. Vilija Oke (KI)
<b>9:10 am</b>	Lupus, Clinical Correlates	Dr. Taro Iwamoto
<b>9:30 am</b>	Sjögrens Syndrome in SLE	Dr. Elisabet Svenungsson (KI)
<b>9:50 am</b>	Break	
<b>10:10 am</b>	Depressed Serum IgM Levels in SLE are Restricted to Defined Subgroups	Caroline Grönvall (KI)
<b>10:30 am</b>	Lupus, Immunology	Dr. Mark Jensen (MC)
<b>10:50 am</b>	Protein Profiling in Plasma Reveals Molecular Subgroups in SLE	Helena Idborg (KI)
<b>11:05 am</b>	Single Cell omics in SLE	Dr. Timothy Niewold (MC)
<b>11:25 am</b>	Altered b <sub>2</sub> GPI Expression on Microparticles in the Presence of Antiphospholipid Antibodies	Dr. Fari Mobarrez (KI)
<b>11:45 am</b>	Microparticles as Potential Biomarkers of Disease Activity in Anti-neutrophil Cytoplasmic Antibody – Associated Vasculitis	Dr. Aleksandra Antovic (KI)

<b>12:00 pm</b>	Light Lunch	Outside lecture hall: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet
<b>12:30–1:15 pm</b>	<b>Title:</b> How Mayo Clinic History and Values Impact Our Facilities <b>Keynote speaker:</b> Matthew D. Dacy, Director, Mayo Clinic Heritage Hall Assistant Professor, History of Medicine	Venue: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet
RA and Juvenile RA		Chairs: Dr. Elisabet Svenungsson (KI) Dr. Theresa Wampler Muskardin (MC)
<b>1:30 pm</b>	RA Immunology and tolerance	Dr. Lars Klareskog (KI)
<b>2:00 pm</b>	Environment and lifestyle factors of importance for RA	Dr. Saedis Saevarsdottir (KI)
<b>2:20 pm</b>	Oral Pathogens as Triggers of Autoimmunity in RA	Karin Lundberg (KI)
<b>2:40 pm</b>	Break	
<b>3:00 pm</b>	Pediatric Rheumatoid Arthritis	Dr. Theresa Wampler Muskardin (MC)
<b>3:20 pm</b>	ACPAs in Juvenile Idiopathic Arthritis	Dr. Eric Sundberg (KI)
<b>3:40 pm</b>	Early onset ANA Positive JIA in the Swedish Pediatric Rheumatology Registry	Dr. Bo Magnusson (KI)

## Psychiatry and Psychology, Thursday, September 7, 2017

Venue: Air & Fire, Science for Life Laboratory, Tomtebodavägen 23A

Program Chairs and Moderators: Dr. Martin Schalling (KI) and Dr. Mark Frye (MC)

<b>1:00 pm</b>	Welcome and Overview of Program	Dr. Martin Schalling (KI)
<b>1:05 pm</b>	Telomere Biology and Response to Lithium	Martin Lundberg (KI)
<b>1:30 pm</b>	Genome-wide Association Study of Antidepressant-induced Mania in Patients with Bipolar Disorder	Dr. Sarah Bergen (KI) Dr. Mark Frye Dr. Joanna Biernacka (MC)
<b>2:00 pm</b>	Metformin Enhances Antidepressant Response Rate to Ketamine in a Rodent Model of Antidepressant Treatment Resistance	Anthi Faka (KI) Blair Price (MC)
<b>2:20 pm</b>	Break	
<b>2:40 pm</b>	Trends in Internalizing Symptoms in Twins in Adolescence and Childhood: Results from Nationwide Population-based Cohorts	Dr. Linda Halldner (KI)
<b>3:20 pm</b>	Selective Changes of DNA Methylation Status at Brain Derived Neurotrophic Factor (BDNF) Gene in Bipolar Disorder	Dr. Claudio D'Addario (KI)
<b>3:40 pm</b>	Human Pluripotent Stem Cells for In Vitro Disease Modelling in Neuropsychiatric Disorders	Dr. Carlos Villaescusa (KI)

## Psychiatry and Psychology, Friday, September 8, 2017

Venue: Air & Fire, Science for Life Laboratory, Tomtebodavägen 23A

Program Chairs and Moderators: Dr. Martin Schalling (KI) and Dr. Mark Frye (MC)

8:30 am	Welcome and Overview of the Day	Dr. Mark Frye (MC) Dr. Martin Schalling (KI)
8:35 am	Using Technology to Deliver Exposure for Childhood Anxiety and OCD: Proof of Concept	Dr. Stephen Whiteside (MC)
9:05 am	Improving Physical Health in Patients with Serious Mental Illness - What Can We Learn from Two Large Randomized Controlled Intervention Trials Investigating the Effect of an Integrated Psychosocial Multifactorial Intervention?	Dr. Jonas Eberhard
9:25 am	Learning From Each Other: Reviewing Quality of In-hospital Deaths as an Indicator of End-of-life (EOL) Care - A Comparison Between Mayo Clinic Hospital and Karolinska University Hospital	Dr. Maria I. Lapid (MC) Dr. Elise Carey (MC)
10:05 am	Mitochondrial DNA Content Alterations in Blood Leukocytes of Psychosis Patients	Parvin Kumar (KI)
10:25 am	A Possible New Way to Lower Cardiovascular Disease Morbidity in Patients with Schizophrenia and Bipolar Disease	Dr. Sven Eriksson (KI)
10:45 am	Desipramine Improves Depression-like Behavior in Mice Prenatally Exposed to Dexamethasone by Regulating Adult Neurogenesis and Newborn Neuron Morphology	Dr. Mirko Conti (KI)
11:05	Open Roundtable	
11:25 am	Adjourn	
12:00 pm	Light Lunch	Outside lecture hall: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet
12:30–1:15 pm	<b>Title:</b> How Mayo Clinic History and Values Impact Our Facilities <b>Keynote speaker:</b> Matthew D. Dacy, Director, Mayo Clinic Heritage Hall Assistant Professor, History of Medicine	Venue: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet

## Psychiatry and Psychology Posters, Thursday, September 7, 2017, 6:15 pm

Venue: Restaurant Karolina, Karolinska vägen 10, Karolinska University Hospital

Social Attention in Youth with Social Anxiety Disorder and the Impact of Cognitive Behavioral Therapy on Attention Bias	Dr. Jens Högström (KI)
Development of the "Self-Reported Psychiatric Symptoms Scale" (SRPS)	Dr. Jonas Eberhard (KI)
In Vitro Modelling of the Effects of the Stress Mediator Cortisol in the Developing Human Brain	Dr. Paschalis Efstathopoulos (KI)
Glucose-lowering Treatment in Individuals With and Without Schizophrenia	Dr. Sven Eriksson (KI)



Experimental Observations and Mathematical Modeling of Dynamic Changes in the Hypothalamic-Pituitary-Adrenal (HPA) Axis Activity During Mania Induction in the Lateral Hypothalamic Kindled (LHK) Rat	Dr. Vladana Vukojević (KI)
Working Memory Training in Alcohol Dependence: A Randomized Clinical Trial	Dr. Nitya Jayaram-Lindström (KI)
Glucocorticoids Alter Neuronal Differentiation by Altering the Redox State	Dr. Marilena Raciti (KI)
ADAPT- ADHD Medication and Predictors of Treatment outcome	Dr. Linda Halldner (KI)
Association of SLC1A2 and P2RX7 with Mood Disorders	Vincent Millischer (KI)
A2A Receptor Regulates Ethanol-Induced Impulsivity in Mice	Phillip Starski (MC)
Adolescence Chronic Caffeine Exposure Promotes Diurnal, Biphasic Mood-Cycling in Mice	Lindsey Andres-Beck (MC)

## Health Care Management, Thursday, September 7, 2017

**Venue: Rolf Luft aulan, Karolinska University Hospital Solna, lab quarter entrance L:1**

Program Chairs and Moderators: Mia Ejendal (KUH), Sean Clark (MC) and Dr. Nneka Comfere (MC)

<b>1:00 pm</b>	The Set-Up in Which We Operate – Mayo Clinic and Karolinska	Mia Ejendal (KUH) Dr. Nneka Comfere (MC) Dr. Joe Hyder (MC)
<b>1:30 pm</b>	From System Change to Health Care Delivery – Creating a New Operating Model	Dr. Andreas Ringman Uggla (KUH)
<b>1:50 pm</b>	Linking Value-based Healthcare Operations Practices to Patient Outcomes and Costs: Test of a Theory	Dr. Boubou Hallberg (KI and KUH) Dr. Alexandre Chakhunashvili (KUH) Dr. Mandar Dabhilkar (SU)
<b>2:10 pm</b>	Inpatient Flow	Dr. Tamara Buechler (MC)
<b>2:30 pm</b>	Quality at Mayo Clinic	Dr. Paula Santrach (MC)
<b>2:50 pm</b>	Break	
<b>3:10 pm</b>	Patient Safety	Dr. Susan Cullinan (MC)
<b>3:30 pm</b>	Care Transitions Shared	Dr. Sarah Crane (MC)
<b>3:50 pm</b>	Patient Involvement in Academic Outpatient Chronic Care	Dr. Sofia Ernestam (KI and SLSO)
<b>4:10 pm</b>	Break to Convene Panel Discussion	
<b>4:15 pm</b>	Panel Discussion: A System for Value Creation  <i>Speakers and audience submit questions to the panel via moderator</i>	Dr. Andreas Ringman Uggla (KUH) Dr. Sofia Ernestam (KI and KUH) Michael Melin (KUH) Dr. Mandar Dabhilkar (SU) Dr. Alexandre Chakhunashvili (KUH) Dr. Boubou Hallberg (KI and KUH) Dr. Sarah Crane (MC) Dr. Susan Cullinan (MC) Dr. Joe Hyder (MC)

		Dr. Paula Santrach (MC) Dr. Tamara Buechler (MC)
4:55 pm	Closing and Announcements	Dr. Nneka Comfere (MC) Mia Ejendal (KUH)

## Health Care Management, Friday, September 8, 2017

**Venue: Rolf Luft aulan, Karolinska University Hospital Solna, lab quarter entrance L:1**

Program Chairs and Moderators: Mia Ejendal (KUH), Sean Clark (MC) and Dr. Nneka Comfere (MC)

8:30 am	Welcome	Mia Ejendal (KUH) Dr. Nneka Comfere (MC)
8:30 am	Topics in Leadership: <ul style="list-style-type: none"> <li>- Leadership Development (20m)</li> <li>- Effective Physician Leaders (20m)</li> <li>- Leading Change (20m)</li> </ul>	Dr. Ji Yun Kang (MC) Mairi Savage (KI) Jan Engelen (KUH)
9:30 am	Quality Improvement Education at Mayo: Quality Academy	Dr. Nneka Comfere (MC)
10:00 am	Break (15m)	
10:15 am	Leadership Panel Discussion (30m) <ul style="list-style-type: none"> <li>- Speakers and audience submit questions to the panel via cards to moderator</li> </ul>	Mairi Savage (KI) Jan Engelen (KUH) Dr. Andreas Ringman Ugglå (KUH) Dr. Sofia Ernestam (KI) Dr. Ji Yun Kang (MC) Dr. Nneka Comfere (MC) Dr. Paula Santrach (MC) Dr. Joe Hyder (MC) Dr. Susan Cullinan (MC)
10:45 am	Understanding Patients and Patient Understanding: Using Design to Create Flexibility in an Inflexible System	Eskil Degsell (KI) Diane Klein (MC) Allison Matthews (MC) Matthew Moore (MC) Marc Matthews (MC)
12:00 am	Light Lunch	Outside lecture hall: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet
12:30–1:15 pm	<b>Title:</b> How Mayo Clinic History and Values Impact Our Facilities <b>Keynote speaker:</b> Matthew D. Dacy, Director, Mayo Clinic Heritage Hall Assistant Professor, History of Medicine	Venue: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet
1:30-3:15 pm	Concurrent Tracks: Walking Tours and Education/Lean Session	
1:30-3:15 pm	Walking Tour: Karolinska University Hospital <ul style="list-style-type: none"> <li>- Intensive Care Unit(s)</li> <li>- General Medical Units Flow</li> </ul>	Sara Lindholm Larsson and KUH Team Dr. Dan Diedrich (MC) Dr. Thomas Comfere (MC) Dr. Sean Caples (MC)
1:30-3:00 pm	Topics in Lean Healthcare Management:	



	<ul style="list-style-type: none"> <li>- Hospital Dynamic Effectiveness (15m)</li> <li>- Action Evaluation (15m)</li> <li>- Lean Management System (30m)</li> </ul>	Sarah Tolf (KI) Dr. John Ovretreit (KI) Dr. Amy Conners (MC) Jeff Leland (MC)
	<ul style="list-style-type: none"> <li>- Enhanced Recovery After Surgery (ERAS) (30m)</li> </ul>	Dr. Sean Dowdy (MC) Dr. Jamie Bakkum-Gamez (MC)
<b>3:00 pm</b>	Break (15-30m)	
<b>3:30 - 4:30 pm</b>	Panel Discussion and Closing	
<b>3:30 pm</b>	Understanding Patients and Lean Panel Discussion <ul style="list-style-type: none"> <li>- Speakers and audience submit questions to the panel via cards to moderator</li> </ul>	Eskil Degsell (KI) Dr. Sara Riggare (KI) Dr. John Ovretreit (KI) Mairi Savage (KI) Sarah Tolf (KI) Dr. Amy Conners (MC) Jeff Leland (MC) Dr. Ji Yun Kang (MC) Diane Klein (MC) Allison Matthews (MC) Matthew Moore (MC) Marc Matthews (MC)
<b>4:00 pm</b>	Closing and Announcements	Mia Ejendal (KUH) Dr. Nneka Comfere (MC) Sean Clark (MC)
<b>4:00–5:00 pm</b>	Free Collaboration Time	All

### Health Care Management Posters, **Thursday, September 7, 2017, 6.15 pm**

**Venue: Restaurant Karolina, Karolinska vägen 10, Karolinska University Hospital**

Intraoperative Microbreaks: Are They Beneficial?	Dr. Susan Hallbeck (MC) Dr. Bethany Lowndes (MC)
Perceived Quality of Care Transitions Between Stroke Unit and the Home - A Cross Sectional Study	Dr. Charlotte Ytterberg (KI)
Hospital Patient Experience Key Moments From the Perspective of Patient/Family vs. Staff	Diane Klein (MC)
Improving Staff and Patient Experiences related to the Electronic Health Record: User Experience (UX) Design Research and Interventions During an EHR Implementation at Mayo Clinic	Matthew Moore (MC)
Do Trauma Activations Affect Interruptions in the Emergency Department?	Dr. Renaldo Blocker (MC)
Perceptions of Workload in the Emergency Department	Dr. Renaldo Blocker (MC)
Understanding Patients - Patients Understanding	Eskil Degsell (KI)

### **Cancer, Thursday, September 7, 2017**

**Venue: Wallenbergsalen, Nobels väg 1**

Program Chairs and Moderators: Dr. Bengt Fadeel (KI) and Dr. Dev Mukhopadhyay (MC)

<b>1:00 pm</b>	Welcome and Update on MC-KI Cancer Collaboration	Dr. Bengt Fadeel (KI) Dr. Dev Mukhopadhyay (MC)
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<b>MTH1 Inhibitors and More: From Bench to Clinic</b>		
<b>1:15 pm</b>	Mechanism of Action of MTH1 Inhibitors and the MASTIFF Phase I Clinical Trial with Karonudib	Dr. Thomas Helleday (KI)
<b>1:35 pm</b>	From Patient Derived Xenografts to IMPACT-OC, A Phase I Clinical Trial: The Role of MTH1 Inhibitors In the Treatment of Ovarian Cancer	Dr. Andrea Wahner Hendrickson (MC)
<b>1:55 pm</b>	MTH-1 Inhibition as a Therapeutic Modality for Biliary Cancer: Expression Predicts Response in Patient-derived Xenografts [short talk]	Dr. John Bergquist (MC)
<b>2:10 pm</b>	Variable MTH-1 Expression in Adenosquamous Carcinoma of the Pancreas [short talk]	Dr. Matthew Hernandez (MC)
<b>2:25 pm</b>	SAMHD1 is a Barrier for Antimetabolic Treatments [short talk]	Dr. Niklas Herold (KI)
<b>2:40 pm</b>	Severe Congenital Neutropenia: Dissecting the Pathophysiological Mechanisms [short talk]	Dr. Avinash Khandagale (KI)
<b>3:00 pm</b>	Break	
<b>Personalized Medicine and Tumor Development</b>		
<b>3:30 pm</b>	Personalized Pancreatic Cancer at Karolinska (PePaCaKa) in Cancer	Dr. Matthias Löhr (KI)
<b>3:50 pm</b>	The Influence of Mechanical Forces on Tumor Development	Dr. Lars Holmgren (KI)
<b>4:10 pm</b>	Pharmacological Reactivation of P53 Protein Family Affects Proliferation and Migration of Cancer Cells with TP53 Gene Mutations	Dr. Joanna Zawacka-Pankau (KI)
<b>4:30 pm</b>	Glioblastoma, Medulloblastoma, Diffuse Intrapontine Glioma, and Normal Astrocyte Small RNA Sequencing of Cells and Extracellular Vesicles Reveal Distinct Signatures [short talk]	Dr. Tristan de Mooij (MC)
<b>4:45 pm</b>	Closing and Announcements	
<b>5:00 pm</b>	Adjourn	

## **Cancer, Friday, September 8, 2017**

**Venue: Wallenbergsalen, Nobels väg 1**

Program Chairs and Moderators: Dr. Bengt Fadeel (KI) and Dr. Dev Mukhopadhyay (MC)

<b>Exosomes and Cancer Immunotherapy</b>		
<b>8:45 am</b>	Exosomes: Biomarkers and Therapeutics	Dr. Dev Mukhopadhyay (MC)
<b>9:05 am</b>	Development of Engineered EVs for Biomedical Applications	Dr. Samir El-Andaloussi (KI)
<b>9:25 am</b>	Harnessing Oncolytic Virus Syncytia Derived Extracellular Vesicles and Their Immune Modulatory Potential	Dr. Richard Vile (MC)
<b>9:45 am</b>	Defining the Impact of Antigen Presentation by Dendritic Cells and Macrophages in CNS Cancer Using a Novel H-2Kb MHC Class I Conditional Knockout Mouse	Dr. Aaron Johnson (MC)
<b>10:05 am</b>	Next Generation Chimeric Antigen Receptor T cell Therapy in Cancer Immunotherapy	Dr. Saad Kenderian (MC)
<b>10:30 am</b>	Break	
<b>Update on Glioblastoma Research</b>		





<b>11:00 am</b>	Metastatic Cancer Research in Brain and Spine	Dr. Rachel Sarabia-Estrada (MC)
<b>11:20 am</b>	Understanding the Communication between Heterogenous Cell Clones in Glioblastoma [short talk]	Dr. Min Guo (KI)
<b>11:35 am</b>	Interaction of Human Glioblastoma Cells and Components of the Neurogenic Niche in the Subventricular Zone [short talk]	Dr. Hugo Guerrero Cazares (MC)
<b>11:50 am</b>	Closing and Announcements	
<b>12:00 am</b>	Light Lunch	Outside lecture hall: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet
<b>12:30–1:15 pm</b>	<b>Title:</b> How Mayo Clinic History and Values Impact Our Facilities <b>Keynote speaker:</b> Matthew D. Dacy, Director, Mayo Clinic Heritage Hall Assistant Professor, History of Medicine	Venue: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet

### Cancer Posters, **Thursday, September 7, 2017, 6:15 pm**

**Venue: Restaurant Karolina, Karolinska vägen 10, Karolinska University Hospital**

Vangl2 Overexpression/silencing Increases Apoptosis and Effects Inflammation in Jurkat T Cells	Maria Lindqvist (KI)
Comparison of PDX, Organoid Tissue Culture and Two-Dimensional Cell Culture From Cancer Tissues in Personalized Medication Testing	Dr. Lin Yang (MC)
MTH1 Inhibitors Demonstrate Therapeutic Efficacy in Ovarian Cancer Independent of Platinum Sensitivity	Rachel Hurley (MC)
Secondary Engraftment of Malignant Patient Tissue is Improved After Cryopreservation	Dr. Matthew C. Hernandez (MC)
Germline Translocation Disrupting ETV6 Predisposes to Childhood Acute Lymphoblastic Leukemia (ALL)	Benedicte Bang (KI)
Targeting Fatty Acid Synthesis to Induce Neuroblastoma Differentiation	Maria Ruiz Perez (KI)
Undifferentiated Uterine Sarcomas: Prognosis and Biology	Dr. Joseph Carlsson (KI)
Risk Factors for Liver Cirrhosis and Hepatocellular Carcinoma in Ghana, West Africa: A Nested Case-control Study	Dr. Amanda Jönsson (KI)
Perceptions and Experiences of Providers and Patients on Care Practices in Liver Cirrhosis	Mawuena Asem (KI)
Health-related Quality of Life in Ghanaian Patients Diagnosed with Liver Cirrhosis – An Assessment of the Burden of Disease	Lora Yousef (KI)
Development of a Potent OGG1 Inhibitor for Cancer Treatment	Dr. Torkild Visnes (KI)
Cytopenia, Predisposition to Myelodysplastic Syndrome, Immunodeficiency, and Neurological Disease Caused By Gain-of-Function SAMD9L Mutations Is Frequently Ameliorated By Hematopoietic Revertant Mosaicism	Bianca Tesi (KI)
Defining the Impact of Antigen Presentation by Dendritic Cells and Macrophages in CNS Cancer Using a Novel H-2Kb MHC Class I Conditional Knockout Mouse	Courtney Malo (MC)

**Cardiology, Vascular and Valvular Aging and Calcification, Thursday, September 7, 2017**

**Venue: CMM, Building L8, bottom floor; Karolinska University Hospital, Solna**

Program Chairs and Moderators: Dr. Magnus Bäck (KI) and Dr. Jordan Miller (MC)

1:30 pm	Title tbd	Dr. Maurice Enriquez-Sarano (on video link from Rochester, Minn.) (MC)
1:55 pm	Risk Factors for Aortic Valve Stenosis	Dr. Susanna C. Larsson (KI)
2:15 pm	Accelerated Translation of New Therapies for Cardiovascular Calcification	Dr. Jordan Miller (MC)
2:35 pm	Break	
3:05 pm	Premature Vascular Aging in CKD	Dr. Peter Stenvinkel (KI)
3:25 pm	Arterial Stiffness: An Underutilized Marker of Cardiovascular Risk	Dr. Iftikhar J. Kullo (MC)
3:45 pm	Arterial Stiffness in Patients with Aortic Valve Stenosis	Oscar Persson (KI)
3:55 pm	SMC Differentiation in Vascular Calcification	Miguel Carracedo (KI)
4:05 pm	Resistance Vasculature in Chronic Kidney Disease: Targeting Impaired Pathways for Therapeutic Alternatives	Samsul Arefin (KI)
4:15 pm	Summary and Collaboration Discussion	
4:30 pm	Closing	

**Cardiology/Cardio-oncology, Friday, September 8, 2017**

**Venue: Lecture Hall, Radiumhemmet, Karolinska University Hospital**

Program Chairs and Moderators: Dr. Cecilia Linde (KI), Dr. Elham Hedayati (KI) and Dr. Joerg Herrmann (MC)

8:30 am	Cardio-Oncology in 2017: The Old and the New, An Evolving Avenue	Dr. Joerg Herrmann (MC)
9:30 am	Cardiovascular Side Effects of Breast Cancer Therapies - The Ongoing Debate on Aromatase Inhibitors and HER-2-directed Therapies	Dr. Elham Hedayati (KI)
10:00 am	Break	
10:30 am	Vasculo-oncology – Vascular Effects of Cancer Treatments?	Dr. Magnus Bäck (KI)
11:00 am	Cardio-Oncology Outpatient Clinic at the New Karolinska	Antroula Papakonstantinou (KI) Dr. Agneta Månsson Broberg (KI)
11:30 am	Summary and Collaboration Discussion	
12:00 pm	Light Lunch	Outside lecture hall: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet
12:30–1:15 pm	<b>Title:</b> How Mayo Clinic History and Values Impact Our Facilities <b>Keynote speaker:</b> Matthew D. Dacy, Director,	Venue: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet



Mayo Clinic Heritage Hall Assistant Professor, History of Medicine
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## Cardiology, Genetics and Inflammation in Cardiovascular Disease, **Friday, September 8, 2017**

**Venue: CMM, Building L8, bottom floor; Karolinska University Hospital, Solna**  
Program Chairs and Moderators: Dr. Ewa Ehrenborg (KI) and Dr. Joerg Herrmann (MC)

<b>1:30 pm</b>	Genetics of PAD and Abdominal Aortic Aneurysm	Dr. Iftikhar J. Kullo (MC)
<b>1:50 pm</b>	Genetics of Thoracic Aneurysms	Dr. Per Eriksson (KI)
<b>2:10 pm</b>	Evidence for Inflammasome Function in Human Atherosclerosis	Zhong-qun Yan (KI)
<b>2:30 pm</b>	Break	
<b>3:00 pm</b>	Cardio-Oncology: New Wine in Old Wineskins	Dr. Joerg Herrmann (MC)
<b>3:20 pm</b>	A Missense Polymorphism in Perilipin 2 Affects Cardiovascular Risk, Foam Cell Formation and Autophagy Through LXR Activation	Peter Saliba Gustafsson (KI)
<b>3:40 pm</b>	Myocardial Infarction in Systemic Lupus Erythematosus	Isak Samuelsson (KI)
<b>3:50 pm</b>	Cardiovascular Effects of Exercise Training in Rheumatoid Arthritis	Philip Sarajlic (KUH)
<b>4:00 pm</b>	A Possible New Way to Lower Cardiovascular Disease Morbidity in Patients with Schizophrenia and Bipolar Disease	Dr. Sven Eriksson (KI)
<b>4:10 pm</b>	Summary and Collaboration Discussion	
<b>4:25 pm</b>	Closing	

## Individualized Medicine, **Friday, September 8, 2017**

**Venue: Ingehsalen, Tomtebodavägen 18 A**

Program Chairs and Moderators: Dr. Richard Rosenqvist-Brandell (KI) and Dr. Aleksandar Sekulic (MC)

<b>9:00 am</b>	Welcome, Introductions and Session Overview	
<b>9:10 am</b>	Rapid, Comprehensive Diagnosis of Monogenic Diseases Using an Integrated Platform for Whole Genome Sequencing	Dr. Valtteri Wirta (KI)
<b>9:30 am</b>	PCNT Point Mutations and Familial Intracranial Aneurysms	Dr. David A. Miller (MC)
<b>9:50 am</b>	Functional Variant Analysis and Rare Disease	Dr. Margot A. Cousin (MC)
<b>10:10 am</b>	Human Rare Diseases: Fishing for Answers	Dr. Anna Lindstrand (KI)
<b>10:30 am</b>	<b>Break</b>	
<b>11:00 am</b>	Muti-omics Approaches for Regulatory Variants Annotation	Dr. Junwen Wang (MC)
<b>11:20 am</b>	Epileptic Biomarkers	Dr. Gerald K. Cooray (KI)
<b>12:00 pm</b>	Light Lunch	Outside lecture hall: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet
<b>12:30–1:15 pm</b>	<b>Title:</b> How Mayo Clinic History and Values Impact Our Facilities <b>Keynote speaker:</b> Director, Mayo Clinic	Venue: Jacob Berzelius, Berzelius väg 3, Karolinska Institutet



	Heritage Hall Assistant Professor, History of Medicine	
<b>1:30 pm</b>	Welcome, Introductions and Session Overview	
<b>1:40 pm</b>	Genomics Medicine Sweden	Dr. Richard Rosenquist Brandell (KI)
<b>2:00 pm</b>	Precision Medicine at Mayo Clinic	Dr. Aleksander Sekulic (MC)
<b>2:20 pm</b>	Bedside to Bench Biomarker Discovery in Cholangiocarcinoma	Dr. Mitesh Borad (MC)
<b>2:40 pm</b>	Personalized Molecular Probing of MDS Stem and Progenitor Cells Post-Allogeneic Transplantation to Improve Prediction of Relapse	Dr. Eva Hellström Lindberg (KI)
<b>3:00 pm</b>	<b>Break</b>	
<b>3:30 pm</b>	CSMD1 SNPs Selectively Affect Anastrozole Response in Postmenopausal Breast Cancer Patients	Dr. Junmei Cairns (MC)
<b>3:50 pm</b>	Precision Medicine for Cancer Therapy	Dr. Päivi Östling (KI)
<b>4:10 pm</b>	Summary and Collaboration Discussion	
<b>4:30 pm</b>	Closing	

### Individualized Medicine Posters, **Thursday, September 7, 2017, 6:15 pm**

**Venue: Restaurant Karolina, Karolinska vägen 10, Karolinska University  
Hospital**

Biodistribution of Busulphan Metabolites and their Effect on Central Nervous System	Dr. Ibrahim El-Serafi (KI)
Deleterious Variants in KIAA0753 are Responsible for a Novel Skeletal Ciliopathy	Anna Hammarsjö (KI)

### Other Posters, **Thursday, September 7, 2017, 6:15 pm**

**Venue: Restaurant Karolina, Karolinska vägen 10, Karolinska University  
Hospital**

Understanding the Mechanismus that Led to Insulin Resistance and Alzheimer's Disease in ApoE4 Carriers	Dr. Patricia Rodriguez- Rodriguez (KI)
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