

DCAcademy Summer Meeting 2025

22 - 24 June 2025

Storebælt Sinatur Hotel & Conference
Østerøvej 121
5800 Nyborg



Sunday, 22 June 2025

Young investigator day

09:30 - 10:15 **Arrival and coffee**

10:15 - 10:30 **Welcome**
Professor Thomas Jespersen, Executive Managing Director, DCAcademy

10:30 - 10:45 **Meet & Greet**
Pernille Højvang Nielsen, Course Manager, DCAcademy

Masterclasses

10:45 - 12:00 **Principles of pharmacology**
Assist. Professor Arnela Saljic, University of Copenhagen

12:00 - 12:45 **Lunch**

12:45 - 13:45 **Cardiovascular pharmacology**
Assoc. Professor Jørgen Kanter, University of Copenhagen

13:45 - 14:15 **Break / Check-in (from 14:00) / change for activities**

14:15 - 16:00 **Outdoor activities**
Stand-up-paddle, archery, guided mountain bike tour, kayakpolo, and yoga

16:30 - 18:30 **Case studies and group work**
Professor Anke Fender, University Hospital Essen

18:30 - 20:00 **Dinner**

Evening session

Chair: Thomas Jespersen

20:00 - 20:45 **Sudden cardiac death in forensic medicine**

Medical Specialist in Forensics, Kristine Boisen Olsen, University of Copenhagen

20:45 - 23:00 **Networking**



Monday, 23 June 2025

07:00 - 08:00 Breakfast, optional morning run, ocean dip

08:00 - 09:15 **Presentations of group work**
Venues: Group A: Langesand, Group B: Flinholm, Group C: Sandholm

Arrival of PI's & senior researchers

09:40 - 09:45 **Welcome to scientific programme**
 Professor Christian Aalkjær, Senior Scientific Adviser, DCAcademy

Session 1 Emerging Therapeutical Technologies

Chairs: Jørgen Kanthers & Britt Borregaard

09:45 - 10:05 **Emerging Technologies in cardiology - is it time for "Full Metal Jacket"**
 Assoc. Professor Brian Løgstrup, Aarhus University

10:05 - 10:10 Discussion

10:10 - 10:30 **Has AI reached clinical usefulness in cMRI?**
 Professor Inga Voges, University Hospital Schleswig-Holstein

10:30 - 10:35 Discussion

10:35 - 10:55 **Shining Light on the Microcirculation: Optical Vascular Imaging for Translational and Clinical Research**
 Assoc. Professor Dmitry Postnov, Aarhus University

10:55 - 11:00 Discussion

11:00 - 11:10 **Advancing Aortic Valve Repair: Surgical and Biomaterial Innovations in a Translational Porcine Model**
 PhD Student Tanita Drejer Jeppesen, Aarhus University Hospital

11:10 - 11:35 **Break**



Session 2

Parallel session

	Emerging Technologies (AI) <i>Venue: Flintholm</i> <i>Chairs: Adam Hulman & Claus Graff</i>	Pharmacology (Vascular) <i>Venue: Sandholm</i> <i>Chairs: Daniel Ketelhuth & Christina Christoffersen</i>	Aging & Stiffness (Clinical Imaging) <i>Venue: Langesand</i> <i>Chairs: Bjørn Strøjer Larsen & Flemming Javier Olsen</i>
11:35 - 11:55	11:35 - 12:05 An FDA-approved prediction algorithm that turned out to be The Emperor's New ML Clothes Assoc. Prof. Simon Tilma Vistisen, Aarhus University	11:35 - 12:05 Vascular Pharmacology of Angiotensin-(1-5), a New Hormone within the Renin-Angiotensin-System Prof. Ulrike Muscha Steckeling, University of Southern Denmark	Age-Related Changes in Tissue Stiffness: Insights from Magnetic Resonance Elastography PhD student Johannes Castelein, University Medical Center Groningen
11:55 - 12:00	Discussion	Discussion	Discussion
12:00 - 12:20			Cardiovascular Imaging in Accelerated Ageing MD. Flemming Javier Olsen, Frederiksberg and Bispebjerg Hospital
12:20 - 12:25	12:10 - 12:40 Generative and Explainable AI in Cardiovascular Disease Management Assist. Prof. Chang Sun, Maastricht University	12:10 - 12:40 The evolving landscape of targets for lipid lowering: from molecular mechanisms to translational implications Prof. Giuseppe Danilo Norata, Università degli Studi di Milano	Discussion
12:25 - 12:45			Cardiac Function in Ageing assessed by Echocardiography Assoc. Prof. Gowsini Joseph, University of Copenhagen
12:45 - 12:50	Discussion	Discussion	Discussion
12:50 - 13:00	Evaluation of AI-based chart review for acute myocardial infarction and cardiogenic shock: a registry-based study PhD Student Karoline Korsholm Jeppesen, Odense University Hospital	The acute effect of docosahexaenoyl-taurine, an omega-3 fatty acid metabolite, on postprandial triglyceride metabolism following a high-fat mixed meal test – a randomised, crossover, double-blind, placebo-controlled trial PhD Student Katja Michler, University of Copenhagen	Biomarkers Associated with Left Atrial Structure and Function in Patients with Psoriasis PhD Student Julie Borchsenius, Copenhagen University Hospitals
13:00 - 14:00	Lunch		

Session 3 Pharmacology - gaps in treatment

Chairs: Ulrike Muscha Steckeling & Sarah Dalgas Nissen

14:00 - 14:20	Hypertension in Women Professor Eva Gerdt, University of Bergen
14:20 - 14:25	Discussion
14:25 - 14:45	HFpEF and potential therapeutic targets Assoc. Professor Vanessa van Empel, University of Maastricht
14:45 - 14:50	Discussion
14:50 - 15:10	Atrial Fibrillation Professor Dominik Linz, Cardiovascular Research Institute Maastricht & UCPH
15:10 - 15:15	Discussion
15:15 - 15:25	Postmenopausal hormone therapy and major adverse cardiac events in women with prior myocardial infarction PhD Student Hannah Wood-Kurland, Copenhagen University Hospitals

Session 4 Poster session	
6 groups, 67 posters Venue: Main floor & 1 st floor	
15:25 - 16:45	<i>Chairs: Rikke Buhl & Dominik Linz · Joanna Kalucka & Lasse Bach Steffensen · Anke Fender & Michael Davies · Britt Borregaard & Helena Dominguez · Arnela Saljic & Bjørn Strøjer Larsen · Sarah Dalgas Nissen & Johannes Castelein</i>
3 min. presentations + 2 min. Q&A	

Session 5		Parallel session	
Emerging Technologies (Vascular) <i>Venue: Flintholm</i> <i>Chairs: Ylva Hellsten & Jacob Bentzon</i>		Pharmacology (Clinical) <i>Venue: Sandholm</i> <i>Chairs: Jens Cosedis & Sam Riahi</i>	Aging & Stiffness (Preclinical) <i>Venue: Langesand</i> <i>Chairs: Arnela Saljic & Anke Fender</i>
16:45 - 17:05	Kidney flow imaging Assoc. Prof. Charlotte Mehlin, University of Copenhagen	Identification of druggable targets in human atherosclerosis by use of proteomics Prof. Michael Davies, University of Copenhagen	Nuclear imaging to identify arrhythmia substrate after myocardial infarction Postdoc. Dylan Vermoortele, KU Leuven
17:05 - 17:10	Discussion	Discussion	Discussion
17:10 - 17:30	Cracking the Calcium Code: Optimizing Complex Coronary Interventions with Intravascular Lithotripsy (The Randomized BALI Trial) MD. Andreas Torp Kristensen, Copenhagen University Hospitals	Treatment of Transthyretin Amyloidosis Prof. Steen Hvitfeldt Poulsen, Aarhus University	ECM remodelling biomarkers for cardiovascular stiffness and fibrosis Scientist Elisavet Angeli, Nordic Bioscience
17:30 - 17:35	Discussion	Discussion	Discussion
17:35 - 17:55	Modern vascular whole-body FDG-PET techniques Consultant André H. Dias, Aarhus University Hospital	Treatment of HCM MD. Anne Mette Dybro, Aarhus University	Fibrosis in AF: A systematic animal study review MSc Student Rikke Marion Knudsen, University of Copenhagen
17:55 - 18:00	Discussion	Discussion	Discussion
18:00 - 18:10	Thromboelastography in women with overweight and obesity planning pregnancy: impact of BMI on thrombotic risk PhD Student Emilie Bahne, Copenhagen University Hospitals	Amiodarone in Real Time: Immediate Effects on Left Ventricular Hemodynamics and Mechanics PhD Student Emma Illum, Odense University Hospital	Naturally occurring COL1 fragments induce COL3 formation at physiological concentrations in 3D PEG hydrogel model with human ventricular cardiac fibroblasts PhD Student Theodora Chrysoulidou, University of Copenhagen
18:10 - 18:20	Group photo		
18:20 - 18:30	Refreshments		

Award Ceremony

Chairs: Prof. Christian Aalkjær & Prof. Thomas Jespersen, DCAcademy

18:30 - 18:45	DCAcademy Rising Star Award
18:45 - 19:10	DCAcademy Lifetime Achievement Award
19:10 - 20:30	Dinner
20:30 - 21:00	Sankt Hans bonfire
21:00 - 22:30	Posters & Refreshments
22:30	Dismount posters

Tuesday, 24 June 2025

07:00 - 08:30 **Breakfast, optional morning run, ocean dip**

Session 6 Global Health

Chairs: Adelson Guarariri Jantsch & Helena Dominguez

08:30 - 08:50 **The Brazilian health system governance for cardiovascular disease – The role of the National Institute of Cardiology**
Prof. Aurora Issa & MD Viviane Belídio, National Institute of Cardiology Hospital, Brazil

08:50 - 08:55 Discussion

08:55 - 09:15 **Palliative care in cardiovascular disease**
Mariana Borges, Homecare Director, Ministry of Health, Brazil

09:15 - 09:20 Discussion

09:20 - 09:35 **Break**

Session 7 Emerging CV Imaging Techniques

Chairs: Ronald Borra & Johannes Castelein

09:35 - 09:55 **Imaging Myocardial Microvascular Reactivity with BOLD MRI**
Assoc. Professor Ronald Borra, University of Groningen

09:55 - 10:00 Discussion

10:00 - 10:20 **Cardiac PET – Focus on immune system and fibrosis**
Professor Frank Bengel, Hannover Medical School

10:20 - 10:25 Discussion

10:25 - 10:45 **Break**



Session 8

Parallel session

	Emerging Technologies (Clinical) <i>Venue: Flintholm</i> <i>Chairs: Alireza Rezaniakolaei & Majid Khazaei</i>	Pharmacology (Endothelial Cell Metabolism) <i>Venue: Sandholm</i> <i>Chairs: Ulf Simonsen & J. David Symons</i>	Aging & Stiffness (Vascular) <i>Venue: Langesand</i> <i>Chairs: Charlotte Mehlin & Jane Stubbe</i>
10:45 - 11:05	Intracardiac energy harvester for leadless pacemaker battery charging Prof. Sam Rishi, Aalborg University Hospital & Assoc. Prof. Alireza Rezaniakolaei, Aalborg University	Energy Metabolism in Liver Sinusoidal Endothelial Cells (LSECs) – A Reliance on Oxidative Phosphorylation and Compartmentalized Fatty Acid Handling Assist. Prof. Patrycja Kaczara, Jagiellonian University	10:45 - 11:15 The sound of aging: probing vascular brain health with functional ultrasound imaging Assist. Prof. Stefano Tarantini, University of Oklahoma
11:05 - 11:10	Discussion	Discussion	Discussion
11:10 - 11:30	New pacing modes and types of implantable cardioverter-defibrillators to treat heart rhythm disorders. Ready for widespread use? Prof. Jens Cosedis Nielsen, Aarhus University	Targeting autophagy for the treatment of CV disease Prof. Sebastiano Sciarretta, Sapienza University of Rome	11:20 - 11:50 EVA in the kidney microcirculation Assoc. Prof. Karolina Kublickiene, Karolinska Institute [online presentation]
11:30 - 11:35	Discussion	Discussion	
11:35 - 11:55	Aortic Phlex – A novel aortic annuloplasty ring for aortic valve repair Postdoc. Mariam Noor, Aarhus University	Crosstalk Between Metabolic and Immune Pathways in Regulating Vascular Biology Assoc. Prof. Joanna Kalucka, Aarhus University	
11:55 - 12:00	Discussion	Discussion	Discussion
12:00 - 12:10	Artificial intelligence-Based Detection of Acute Heart Failure in Acute Dyspneic Patients using Chest Computed Tomography PhD Student Kristina Miger, Copenhagen University Hospitals	The impact of toxic sphingolipid ceramides accumulating in cerebrovascular endothelial cells on acute ischemic stroke outcomes in mice PhD Student Sohom Mookherjee, University of Utah	Albumin is an important contributor to indoxyl sulfate-mediated endothelial dysfunction PhD Student Søren Elsborg, Aarhus University
12:10 - 13:00	Lunch		
	Keynote speech <i>Chair: Professor Dominik Linz</i>		
13:00 - 13:45	Cardiogenic shock Professor Christian Hassager, Chief Physician, Rigshospitalet & Academic Leader, Technical University Hospital		
13:45 - 14:00	Break		

Session 9 Inequality in CVD trajectories: Understanding and intervening

Chairs: Maria Kristiansen & Raphael Guimarães

14:00 - 14:10	Introduction and overview Professor Maria Kristiansen, University of Copenhagen
14:10 - 14:40	The HeRTA project - Inequality in Cardiac Rehabilitation PhD student Ida Pedersen Halvorsen, Copenhagen University Hospital - Frederiksberg
14:40 - 15:10	Living well, worrying Less: Insights from couples facing heart disease and socio-demographic risk factors Researcher Caroline Mejdahl, Central Denmark Region
15:10 - 15:40	Discussion
15:40 - 16:00	Poster- and Oral presentation awards & Closing remarks <i>Professor Christian Aalkjær, Senior Scientific Adviser, DCAcademy</i>