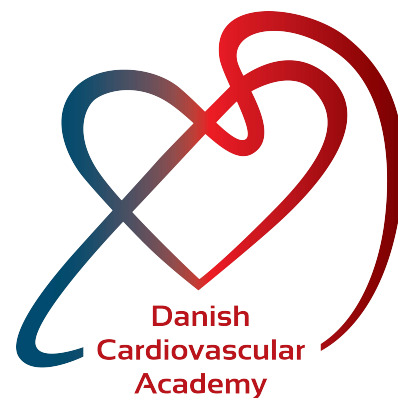


DCAcademy Summer Meeting 2024

20 - 22 June 2024

Storebælt Sinatur Hotel & Konference
Østerøvej 121
5800 Nyborg



Thursday June 20, 2024

Young investigator day

09:00 - 09:30	Arrival and coffee
09:30 - 10:00	Welcome and Meet & Greet Prof. Thomas Jespersen, Executive Training Director, DCAcademy
10:00 - 11:30	Opening Speeches Scientific presentations – Public health & Global South in a Cardiovascular perspective
10:00 - 10:40	Public health perspectives on cardiovascular disease: challenges and opportunities for vocational rehabilitation Maria Kristiansen, University of Copenhagen
10:50 - 11:30	Building global capacity for the prevention and management of cardiovascular diseases, using Partnership for Education of Health Professionals (PEP) as an example (India & East Africa) Flemming Konradsen, Novo Nordisk Foundation

Session 1 **Revolutionizing Cardiovascular Research: The Power of AI and ChatGPT**

Chair: Emil Toft Brøndum, Chief Operating Officer, DCAcademy

11:30 - 12:00	ChatGPT in science: why and how to/not to use it in research Jan Wolff & Ruben Pauwels
12:00 - 13:00	Lunch
13:00 - 15:00	Workshop on language processing and chatbots Jan Wolff & Ruben Pauwels
15:00 - 15:30	Break / Check-in / change for activities
15:30 - 17:00	Outdoor activities <i>Stand-up-paddle, bow & arrow, guided mountainbike tour and outdoor fitness</i>
Arrival of PI's & senior researchers	
17:00 - 17:45	Meet the professor <i>Chair: Thomas Jespersen, DCAcademy</i> Thomas Jepps, University of Copenhagen Flemming Konradsen, Novo Nordisk Foundation Henrik Kjærulf Jensen, Aarhus University Lars Melholt Rasmussen, University of Southern Denmark Michael Toft Overgaard, Aalborg University Kirstine Callø, University of Copenhagen Ljubica Matic, Karolinska Institute Guiscard Seebohm, University of Münster
17:45 - 20:00	Dinner on the terrace

Evening session

20:15 - 21:00 **"Mysteriet om de døde børn" – behind the scenes of the TV2 documentary**
 Chair: *Thomas Jespersen*
 Mette Nyegaard, Statens Serum Institut & Michael Toft Overgaard, Aalborg University

21:00 - 23:00 **Networking**

Friday June 21, 2024

7:00-8:30 Breakfast, optional morning run, ocean dip

Session 2 **Vascular Disease**

Chairs: Christina Christoffersen & Ljubica Matic

08:30 - 08:55 **Framing of Vascular Disease**
 Christina Christoffersen, University of Copenhagen

08:55 - 09:20 **Genetics and epidemiology of lipids in atherosclerosis development**
 Anne Langsted, Rigshospitalet

09:20 - 09:40 **Endothelial cells and lipoproteins in atherosclerosis**
 Jérôme Robert, University of Zürich

09:40 - 09:50 **Comparative analysis of smooth muscle cell phenotypic diversity in atherosclerotic plaques across species and vascular beds**
 Diana Sharysh (PhD student, Aarhus University)

09:50 - 10:00 **Targeted proteome analysis reveals increased arterial basement membrane proteins and associations to glycemic status in patients with type 2 diabetes**
 Anne-Sofie Allermann (PhD student, University of Southern Denmark)

10:00 - 10:30 **Break & energizer**

Session 3

Parallel session

	BASIC MECHANISMS IN ATRIAL FIBRILLATION <i>Venue: Flintholm</i> <i>Chairs: Lisa Gottlieb</i>	INHERITED CARDIAC DISEASES <i>Venue: Sandholm</i> <i>Chairs: Henrik Kjærulf Jensen</i>	CARDIAC ATHEROSCLEROSIS <i>Venue: Langesand</i> <i>Chairs: Jacob Fog Bentzon</i>
10:30 - 10:50	Pathophysiology and ablation strategies involving the pulmonary veins Lisa Gottlieb, University of Copenhagen	Overview of inherited heart diseases with focus on channelopathies Henrik Kjærulf Jensen, Aarhus University Hospital	Coronary atherosclerosis burden and cardiovascular risk: insights from clinical data Martin Bødtker Mortensen, Aarhus University
10:50 - 11:15	From mechanisms of atrial fibrillation to biomolecule-based risk prediction Larissa Fabritz, University Center of Cardiovascular Science (UCCS)	Molecular of aspects the SCN5A gene in inherited cardiac disorders Kirstine Callø, University of Copenhagen	Key molecular mechanisms and signatures of atherosclerotic plaque instability illuminated by multi-omics integrations from a large biobank Ljubica Matic, Karolinska Institute
11:15 - 11:40	New targets for atrial fibrillation Mathilde Rivaud, Amsterdam UMC	Inherited cardiomyopathies - application of molecular insight for novel treatment approaches Henning Bundgaard, Rigshospitalet	Smooth muscle cell contractile function in atherosclerosis Julián Albarrán Juárez, Aarhus University
11:40 - 11:50	Molecular Remodeling in Horse Atrial Fibrillation: The Effects of Metformin Simon Haugaard (PhD students, University of Copenhagen)	The role of ciliary genes in congenital heart disease comorbidities Viktor Sarusie (Postdoc, University of Copenhagen)	Modulation of smooth muscle cell phenotype in atherosclerosis through SMAD7 Laura Alonso Herranz (Postdoc, Aarhus University)
11:50 - 12:00	High-Intensity Exercise-Induced Atrial Remodeling: A 3D Endocardial Mapping Study in Standardbred Horses Sarah Dalgas Nissen (Postdoc, University of Copenhagen)	Maternal and Neonatal Characteristics Influencing Delayed Closure of Ductus Arteriosus: A CBH Cohort Study Anton Friis Mariager (PhD student, University of Copenhagen)	Human atherosclerotic plaques contain oxidant-modified proteins Karen Yang-Jensen (PhD student, University of Copenhagen)
12:00 - 13:15	Lunch		

Session 4

Molecular aspects of CV disease

Chairs: Michael Toft Overgaard

13:15 - 13:40	Calmodulinopathies Lia Crotti, Università degli Studi di Milano-Bicocca
13:40 - 14:05	Loosing connections breaks the heart - Impaired cell-cell adhesion and its role for Arrhythmogenic Cardiomyopathy Camilla Schinner, University Medical Center Hamburg (UKE)
14:05 - 14:25	Cardiac arrest survivors - diagnostic workup and gaps in evidence Bo Winkel, Rigshospitalet
14:25 - 14:35	NYHA functional class and ICD in non-ischemic heart failure with reduced ejection fraction: Extended follow-up of the DANISH trial Jawad Butt (PhD student, University of Copenhagen)
14:35 - 14:45	Diabetes and sudden cardiac death in a nationwide, unselected population Tobias Skjelbred (PhD student, Rigshospitalet)

Session 5 Poster session

6 groups, 48 posters

Venue: 1st floor

14:45 - 16:30

Chairs: *Helena Dominguez, Larissa Fabritz & Stefan Sattler • Guiscard Seeböhm & Benedikt Linz • Peter Agger & Arnela Saljic • Claus Graff & Sarah Dalgas Nissen • Gunnar Gislason & Edina Hadziselimovic • Ljubica Matic & Joakim Bastrup*

3 min. Presentations + 2 min. Q&A

Session 6

Parallel session

	HYPERTENSION <i>Venue: Flintholm</i> <i>Chairs: Thomas Jepps</i>	CORONARY PHYSIOLOGY AND IMAGING <i>Venue: Sandholm</i> <i>Chairs: Ashkan Eftekhari</i>	VASCULAR GENETICS <i>Venue: Langesand</i> <i>Chairs: Lars Melholt Rasmussen, Lasse Bach Steffensen</i>
16:30 - 16:55	The many things we don't know about hypertension in women Ulrike Muscha Steckelings, University of Southern Denmark	Intracoronary imaging Niels Holm, Aarhus University	Somatic mutations reveal clonal cell populations in diseased and normal human arterial tissue Lasse Bach Steffensen, University of Southern Denmark
16:55 - 17:20	Vital cardiac and vasoprotective functions of endogenous C-type natriuretic peptide in health and disease Amie Moyes, University College London	Coronary physiology Thomas Engstrøm, Rigshospitalet	Polygenic and proteomic risk scores for CVD Morten Bøttcher, Aarhus University
17:20 - 17:40	A new perspective: Unraveling the link between hypertension and Alzheimer's disease Joakim Bastrup, University of Copenhagen	Integration of coronary physiology and imaging Carlos Collet, Olv Hospital Aalst	System Genetics of Human Vascular Smooth Muscle Cells Predict Causal Genes for Coronary Artery Disease and reveal sex differences Redouane Aherrahrou, University of Lübeck & University of Eastern Finland
17:40 - 17:50	Glycosylated Atrial Natriuretic Peptide has the ability to increase renal blood flow in spontaneous hypertensive rats Peter Fruergaard Andersen (PhD student, University of Copenhagen)	Cardiac dysfunctions and the impact on clinical outcomes in patients with ST segment elevation myocardial infarction after percutaneous coronary Yan Zhou (PhD student, University of Copenhagen)	Smooth muscle-specific deletion of Ccn2 causes severe aorta malformation and atherosclerosis Jannik Larsen (Postdoc, University of Southern Denmark)
17:50 - 18:10	Refreshments		
	Award Ceremony <i>Chair: Christian Aalkjær, Executive Managing Director, DCAcademy</i>		
18:10 - 18:25	DCAcademy Rising Star Award		
18:25 - 18:45	DCAcademy Lifetime Achievement Award		
19:30 - 21:00	Dinner		
21:00 - 23:00	Posters & Refreshments		

Saturday June 22, 2024

07:30 - 08:15 **Breakfast, optional morning run, ocean dip**

Session 7

Parallel session

	MOLECULAR ENTITIES OF SCD <i>Venue: Flintholm</i> <i>Chairs: Arnela Saljic</i>	CLINICAL AF <i>Venue: Sandholm</i> <i>Chairs: Mads Brix Kronborg & Larissa Fabritz</i>	PREVENTION AND REHABILITATION <i>Venue: Langesand</i> <i>Chairs: Henrik Bjerre & Bo Christensen</i>
08:30 - 08:50	In Vitro Reprogramming of Fibroblasts From Human Cadavers to Generate iPSC-Cardiomyocytes Thomas Jespersen, University of Copenhagen	Atrial fibrillation in clinical practice – state of the art Morten Lock Hansen, University of Copenhagen	The Healthy Mind intervention Anne Søjberg & Stinne Eika Rasmussen, Aarhus University
08:50 - 09:10	Forensic molecular autopsies in cases of sudden cardiac death Stine Bøttcher Jacobsen, University of Copenhagen	Developing novel drugs to treat atrial fibrillation Anders Holst, Acesion Pharma	Management and rehabilitation of vulnerable heart transplanted recipients Rikke Elmoose Mols, Aarhus University
09:10 - 09:30	Sudden unexplained death in Thoroughbred racehorses Arnela Saljic, University of Copenhagen	Atrial fibrillation, and Cardiac structure and Function Tor Biering-Sørensen, University of Copenhagen	Social inequality in uptake and dropout from cardiac rehabilitation Thomas Maribo, Aarhus University
09:30 - 09:40	Iron overload in human iPSC cardiomyocytes Guiscard Seebohm (Professor, University of Münster)	Quality of life after screening for atrial fibrillation – a LOOP substudy Emilie Katrine Kongebro (PhD student, University of Copenhagen /Rigshospitalet)	Assessing One-Year Risk of Heart Failure Following First Time Myocardial Infarction and Subsequent Five-Year Mortality Risk: A nationwide study of 34,401 patients Deewa Zahir Anjum (PhD student, Herlev/Gentofte Hospital)

09:40 - 10:00 **Break**

Session 8

Atrial fibrillation - primary care, public health and mechanisms

Chairs: Helena Dominguez & Maria Kristiansen

10:00 - 10:20	The impact of atrial contraction on risk of clot formation with and without atrial fibrillation Bjørn Strøier, Gentofte Hospital
10:20 - 10:40	Can we identify atrioopathy as predictor of atrial fibrillation and stroke with digital biomarkers based on the electrocardiogram Christoffer Læssøe Madsen, University of Copenhagen
10:40 - 11:00	Patient education in patients with multiple heart conditions Signe Stelling Risom, University of Copenhagen
11:00 - 11:25	Lifestyle Factors and Atrial Fibrillation Prevention Helena Dominguez, University of Copenhagen
11:25 - 11:50	Pro/Con session om POAF: Perioperative atrial fibrillation must be considered as definite diagnosis Ahmad Sajadieh, University of Copenhagen & Axel Brandes, University of Southern Denmark

11:50 - 12:00	Break
12:00 - 12:50	Keynote speech <i>Chair: Tor Biering-Sørensen</i>
	The renal microcirculation Prof. Jean-Claude Tardif, Montreal Heart Institute
12:50 - 13:00	Award ceremony & Closing remarks <i>Thomas Jespersen, DCAcademy</i>
	Best oral presentation & best poster presentation See you next year!
13:00 - 14:00	Lunch
14:00 - 14:30	DCAcademy Business Meeting (Everybody is invited) <i>(suggestions for improvements, new directions etc.)</i>
