



Programme & List of Participants

DCACADEMY SUMMER MEETING 2022

2nd – 4th of June 2022

Storebælt Sinatur Hotel & Konference

novo
nordisk
fonden



2 PROGRAMME

2ND OF JUNE

09:00 - 09:30 *Arrival and coffee*

09:30 - 09:45 **Welcome - outline of the day**
Prof. Christian Aalkjær and Professor Thomas Jespersen,
Executive Managing Directors, DCAcademy

09:45 - 10:00 **Meet and greet**

TRAINING SESSION I: IMPOSTOR SYNDROME

Chairs: Postdoc. Arnela Saljic (UCPH); Course Manager Xenia Kessler (DCAcademy)

10:00 - 10:45 **Rethinking impostor syndrome - Workshop part I**
Carmen Manea, Leadership and Team Coach, CM-CAMP

10:45 - 10:50 *Break*

10:50 - 12:30 **Rethinking impostor syndrome - Workshop part II**
Carmen Manea, Leadership and Team Coach, CM-CAMP

12:30 - 14:00 *Lunch / check-in*

14:00 - 16:00 **Sports and training activities, such as Stand Up Paddle, guided mountain biking and a team challenge**

TRAINING SESSION I: CAREER

Chairs: Prof. Thomas Jespersen (DCAcademy); Course Coordinator Marie Bach Søgaard (DCAcademy)

16:00 - 16:30 **What are industries looking for?**
Kenny Hansson, Executive Director, PhD, Head of Bioscience Cardiovascular

16:30 - 17:00 **The Novo Nordisk Foundation 2022 Funding Strategy**
Senior Vice President Henrik Sillesen, The Novo Nordisk Foundation

17:00 - 17:30 *Break*

17:30 - 18:30 **Career speed mentoring**

18:30 - 19:30 *Break (poster mounting)*

19:30 - 20:00 *Pre-dinner drinks and networking*

- > SHARE YOUR EXPERIENCES ON SOCIAL MEDIA

Twitter: @DCAcademyDK #summer22dcacademy (special hashtag for this event)

Instagram: @DCAcademyDK #DCAcademyDK

LinkedIn: @danishcardiovascularacademy #DCAcademy

3RD OF JUNE

07:00 - 08:00 Morning exercise (optional) Guided run in the surroundings (07:00-07:30), ocean dip (07:30)

07:30 - 08:30 Breakfast

08:30 - 08:45 Welcome - outline of the day
Prof. Christian Aalkjær and Professor Thomas Jespersen, Executive Managing Directors DCAcademy

SESSION I: ACUTE CARDIAC ARREST

Chairs: DMSc, Prof. Henrik Kjærulf Jensen (AU); DMSc. Prof. Jakob Møller (OUH/RH); PhD stud. Carl Johann Hansen (UCPH)

08:45 - 09:05 Out-of-hospital cardiac arrest in the pre-hospital settings: current research and opportunities
MD, Postdoc Carolina Malta Hansen, RH & Copenhagen Cardiovascular Research Centre

09:05 - 09:25 In-hospital treatment of out-of-hospital cardiac arrest
DMSc. Prof. Christian Hassager, Senior Consultant, Chair of The Danish Heart Foundation

09:25 - 09:45 Invasive treatment in cardiac arrest
DMSc. Prof. Christian Juul Therkelsen, Aarhus University

09:45 - 10:05 Large animal models of ventricular fibrillation in acute myocardial infarction
Postdoc Anniak Frederike Lubberding, UCPH

10:05 - 10:30 Coffee - energizer

SESSION II**Parallel session: Basic research**

Chairs: Assoc. Prof., DMSc Vladimir Matchkov (AU); Postdoc. Arnela Saljic (UCPH)

Parallel session: Clinical research

Chairs: DMSc., Prof. Jacob Eifer Møller (OUH/RH); DMSc., Prof Christian Torp-Pedersen (UCPH)

10:30 - 10:50 Calmodulin variants provoking cardiac arrhythmias
Prof. Michael Toft Overgaard, AAU

Inherited heart disease in cardiac arrest
DMSc, Prof. Jacob Tfelt Hansen, RH, UCPH

10:50 - 11:10 Plasma proteomics in cardiovascular diseases
Associate Prof. Hans Christian Beck, OUH, University of Southern Denmark

Percutaneous coronary intervention guided by coronary physiology
Consultant, Assoc. Prof., Ashkan Eftekhari, AAUH

11:10 - 11:30 Cardiac proteomics insights into regul. proc. in heart
Prof. Alicia Lundby, UCPH

Cardiogenic shock – how can animal studies contribute?
Senior Consultant, Prof. Hanne Berg Ravn, OUH, University of Southern Denmark

11:30 - 11:40 Cerebral injury and metabolism 48 hours after cardiac arrest – a porcine experimental study (abstract O1)
Lauge Vammen, PhD student, AU/AUH

Association of high-sensitive troponin T with clinical events in patients with asymptomatic mild-to-moderate aortic stenosis: a post hoc sub-study of the SEAS trial (abstract O4)
Edina Hadziselimovic, PhD student, UCPH

11:40 - 11:50 The ketone body 3-hydroxybutyrate increases cardiac output through afterload reduction and not through increased left ventricular contractility (abstract O2)
Nigopan Gopalasingam, PhD student, AU

Preoperative diastolic dysfunction determined by waveECG is associated with complications after acute abdominal surgery (abstract O5)
Christoffer V. Madsen, PhD student, Bispebjerg-Frederiksberg Hospital

11:50 - 12:00 Temperature affects metabolism and cardiac regenerative ability in vivo and ex vivo in the axolotl salamander heart (abstract O3)
Anita Dittrich, PhD student, AUH

Increased circumferential deformation predicts cardiac events when left ventricular ejection fraction is normal (abstract O6)
Kristoffer Grundtvig Skaarup, PhD student, Herlev & Gentofte University Hospital

3RD OF JUNE (CONTINUED)

12:00 - 13:30 Lunch

SESSION III: INNOVATION IN MEDICINE

Chairs: Prof., Senior Cardiologist, Sam Riahi (AAU); PhD student Daniel Fyenbo (AUH)

PART I: ATRIAL FIBRILATION

13:30 - 13:50 **Development and status on pharmacological treatment of AF**
Prof., CSO, Morten Grunnet, Acesion Pharma

13:50 - 14:10 **Development of interventional treatment of AF**
Senior Consultant, PhD Niels Sandgaard, OUH

14:10 - 14:30 **Q&A / pros and cons discussion**

14:30 - 14:45 Break

PART II: BIOMEDICAL ENGINEERING INNOVATION

14:45 - 15:05 **Experimental cardiovascular biomechanics**
Assoc. Prof. Peter Johansen, Dept. Electrical and Computer Engineering - Biomedical Engineering, AU

15:05 - 15:15 **Novel annuloplasty ring for aortic valve repair**
Postdoc Mariam Abdi Noor, Dep. of Cardiothoracic and Vascular Surgery, AU

15:15 - 15:25 **Dissociation between two-dimensional and three-dimensional echocardiography - clinical implications**
Filip Lyng Lindgren, PhD student, AUH

15:25 - 15:30 Q & A

POSTER SESSION

Chairs: MD DMSc Per Lav Madsen (UCPH); Assoc. Prof. Helena Dominguez (UCPH); Assoc. Prof. Peter Johansen (AU); Prof. Michael Toft Overgaard (AAU); Assoc. Prof. Charlotte Mehlin Sørensen (UCPH); Assoc. Prof. Ashkan Eftekhari (AAU); Assoc. Prof. Vladimir Matchkov (AU); Assoc. Prof. Tom Jepps (UCPH); Assoc. Prof. Rozh Al-Mashhadi (AU); Assoc. Prof. Ivy Susanne Modrau (AU); Princ. Scientist Lasse Skibsbjerg (Lundbeck); Assoc. Prof. Olga Sosnovtseva (UCPH)

15:30 - 17:00 Poster viewing, coffee and snacks

THE FUTURE OF SCIENTIFIC PUBLISHING

Chairs: DMSc., Prof. Lars Køber, Rigshospitalet (UCPH)

17:00 - 18:15 **Prof. Brant Isakson, Editor-in-Chief, Journal of Vascular Research**
DMSc., Prof. Christian Torp-Pedersen, Nordsjællands Hospital

18:15 - 18:30 Break

18:30 - 19:00 **Award ceremony: 2022 DC Academy Lifetime Achievement Award**
Chair: Prof., Executive Managing Director Christian Aalkjær

19:00 - 21:00 Dinner

21:00 - ? Bonfire & drinks by the ocean

4TH OF JUNE

07:30 - 08:30 Morning exercise (optional)
Guided run in the surroundings (07:30-08:00), ocean dip (08:00)

08:00 - 09:00 Breakfast

SESSION IV: INSIGHTS INTO VASCULAR DISEASE

Chairs: Prof. Ebbe Bødtkjær (AU); Prof. Executive Managing Director Christian Aalkjær

09:00 - 09:30 **Hemoglobin: it's not just for red cells anymore**
Prof. Brant Isakson, University of Virginia, US

09:30 - 09:50 **Genetic superheroes carry key information to prevention of cardiovascular disease**
Prof. Mette Nyegaard, AAU

09:50 - 10:00 Energizer

10:00 - 10:20 **Potential new targets to treat hypertension**
Associate Prof. Tom Jepps, UCPH

10:20 - 10:40 Coffee break

SESSION V: METHODOLOGY IN VASCULAR DISEASE

Parallel session: Basic research

Chair: Assistant Professor Julián Albarrán-Juárez (AU), Postdoc. Anniek Lubberding (UCPH)

Parallel session: Clinical research

Chair: Prof. Gunnar Gislason, Scientific Director, The Danish Heart Foundation, MD PhD Anders Berg Wulff, Herlev & Gentofte Hosp.

10:40 - 11:00 **Cerebrovascular regulation in health and disease**
Associate Prof. Vladimir Matchkov, AU

Clinical outc. less-invasive coronary bypass surgery
Associate Prof. Ivy Susanne Modrau, AU

11:00 - 11:20 **Visualizing the Renal Microvasculature in Rats: Super-Resolution Imaging with Ultrasound**
Associate Prof. Charlotte Mehlin Sørensen, UCPH

Non-invasive vascular imaging
Associate Prof. Rozh Al-Mashhadi, AUH

11:20 - 11:30 **Somatic mutations reveal clonal cell populations in atherosclerotic plaques**
Postdoc Lasse Bach Steffensen, SDU

Risk stratification parameters as assessed by continuous long-term cardiac monitoring in pulmonary hypertension -heart rate variability, heart rate, and physical activity (abstract O8)
Mads Ørbæk Andersen, PhD student, UCPH

11:30 - 11:40 Break

4TH OF JUNE (CONTINUED)

SESSION IV: CO-MORBIDITIES AND THE VASCULATURE

Parallel session: Basic research

Chairs: Associate Prof. Tom Jepps (UCPH); Postdoc. Laura Alonso-Herranz (AU)

Parallel session: Clinical research

Chairs: Prof. Christian Aalkjær (DCAcademy); Postdoc. Freja Bach Kampmann, Bispebjerg and Frederiksberg Hospital

11:40 - 12:00

Mechanisms and consequences of metabolic blood flow regulation in the brain
Prof. Ebbe Bødtkjær, AU

Causal contribution of high LDL-cholesterol and high glucose to micro- and macrovascular diseases

Prof. Marianne Benn, Rigshospitalet, UCPH

12:00 - 12:20

Potential therapeutic targets to restore endothelial function and treat vascular disease
Prof. Ulf Simonsen, AU

Combination treatment with GLP-1ra and SGLT-2i in type 2 diabetes: Effects on cardiovascular function

Prof. Per Løgstrup Poulsen, Steno Diabetes Center Aarhus

12:20 - 12:30

Dynein coordinates -adrenoceptor-mediated relaxation in normotensive and hypertensive rat mesenteric arteries (abstract O9)
Jennifer van der Horst, PhD student, UCPH

Risk of acute myocardial infarction, stroke and thromboembolism following COVID-19 vaccination compared to testing positive for SARS-CoV-2: a nationwide cohort study (abstract O11)

Mats Højbjerg Lassen, PhD student, UCPH

12:30 - 12:40

Effect of an allosteric transglutaminase 2 inhibitor on endothelium-dependent vasodilatation in rat renal arteries and resistance arteries from young and old patients with and without diabetes (abstract O10)
Khatera Saii, Research Year Student, AU/AUH

The effect of vitamin K2 supplementation on coronary artery disease in a randomized multicenter trial (abstract O12)

Selma Hasific, PhD student, OUH

12:40 - 13:30

Lunch

KEYNOTE SESSION

Chair: Prof., Executive Managing Director Christian Aalkjær (DCAcademy)

13:30 - 14:10

The future of cardiovascular medicine
Keynote speaker: Prof. Thomas Lüscher

Prof. Thomas Lüscher is director of research, education and development and a consultant cardiologist, the Royal Brompton and Harefield NHS Foundation Trust and Imperial College London & director of the Centre for Molecular Cardiology, University of Zurich, former editor-in-chief of the European Heart Journal

14:10 - 14:25

Prize ceremony
Best oral presentation - best poster

14:25 - 14:30

Closing remarks
Executive Managing Director Christian Aalkjær, DCAcademy

14:30 - 15:00

DCAcademy business coffee (optional)