

Sex Differences in Metabolic and Cardiovascular Disease

Danish Cardiovascular Academy, Danish Diabetes Academy & Danish Data Science Academy

Date 14th to 16th of September 2022

Venue Sandbjerg Gods
Sandbjergvej 102
6400 Søborg

Course Fee 2.000 DDK; The course is free of charge for PhD Students and Postdoctoral Fellows

Preliminary programme

DAY 1

Opening Session

09:30 - 10:00	Registration/Coffee
10:00 - 10:10	Welcome and outline of the day
10:10 - 10:25	Meet and Greet

Session 1

How much does it really matter?

10:30 - 11:00	<i>Sex and Gender roles in Insulin Resistance and Type 2 Diabetes</i> Professor Michael D. Jensen, Mayo Clinic, U.S.
11:00 - 11:15	Q&A
11:15 - 11:45	<i>Sex and Genders role in Cardiovascular disease</i> Professor Eva Gerds, University of Bergen, Norway
11:45 - 12:00	Q&A
12:00 - 13:00	Lunch

Session 2

13:00 - 14:00 **Project Pitches**

Session 3

Mechanistic pathways of sex differences - sex hormones and beyond

14:00 - 14:30	<i>Sex hormones and cardiovascular risk</i> Professor, Consultant Ellen Løkkegaard, University of Copenhagen, Denmark
14:30 - 14:40	Q&A
14:40 - 15:10	<i>Estrogen and androgen receptors</i> Professor Pierre Gourdy, University Hospital of Toulouse, France
15:10 - 15:20	Q&A
15:20 - 15:45	Coffee break

Session 4

15:45 - 17:45	Workshop on Data Science Associate Prof. Veronika Cheplygina, IT University of Copenhagen <i>In this workshop I will first give an introduction to some general concepts in machine learning and how it can be used to support diagnostic tasks, with examples focused on medical imaging. I will then cover a number of shortcomings that have been already identified in this field, and how these can potentially lead to inaccurate and/or biased algorithms. Finally I will show some cases from recent research papers, which the students will discuss in groups and then summarize their findings in short pitches/presentations in plenum.</i>
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Afternoon

17:45-18.30	Free time and check-in
18.30 - 20.00	Dinner
20.00 - 21.00	<i>Evening session: Which is the healthier sex? - insights from humans and baboons</i> Professor Kaare Christensen, University of Southern Denmark, Denmark

DAY 2

Opening Session

07:30 - 08:30	Breakfast
08:30 - 08:45	Welcome and outline of the day

Session 5

Tissue-specific sex differences – and their role in diabetes/CVD

08:45 - 09:15	<i>Sex differences in liver lipoprotein metabolism and impact on atherosclerosis risk</i> Associate Professor John Stafford, MD, Vanderbilt University School of Medicine
09:15 - 09:25	Q&A
09:25 - 09:55	<i>Adipose tissue</i> TBA
09:55 - 10:05	Q&A
10:05 - 10:20	Coffee break
10:20 - 10:50	<i>Dyslipidemia in women and men: a life course approach</i> Ass. Professor Jeanine Roeters van Lennep, University Medical Center Rotterdam, The Netherlands
10:50 - 11:00	Q&A

Session 6

11:15 - 12:15 Project Pitches

12:30 - 13:30	Lunch
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Session 7

Heart, brain and sex

13:30 - 14:00	<i>Sex and cardiac ischemia</i> Professor Mai Tone Lønnebakken, University of Bergen/Haukeland University Hospital, Norway
14:00 - 14:10	Q&A
14:10 - 14:40	<i>Epidemiological evidence on links between metabolic disease, CVD and dementias - focus on sex differences</i> Postdoc Janet Janbek, Danish Dementia Research Centre, Denmark
14:40 - 14:50	Q&A
14:50 - 15:00	Coffee break

Session 8

15:00 - 16:30	Poster Presentations Poster viewing
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Afternoon

16.30 - 18.00	Networking activities
18:00 - 18:30	Free time
18.30 - 20.00	Dinner
20.00 - 21.00	Meet the Professor

DAY 3

Opening Session

07:30 - 08:30	Breakfast
08.30 - 08:45	Welcome and outline for the day
08:45 - 09:15	<i>The X and Y Chromosomes</i> Professor Claus Højbjerg Gravholt, MD, PhD, Dr.Med.Sci, Dept. of Endocrinology and Dept. of Molecular Medicine (MOMA), AUH, Denmark
09:15 - 09:25	Q&A

Session 9

Metabolism and vasculature in muscle

09:25 - 09:55	<i>Men are from Mars and women from Venus - Sex differences in the regulation of skeletal muscle mass</i> Associate Professor Mette Hansen, Aarhus University, Denmark
09:55 - 10:05	Q&A
10:05 - 10:35	<i>The role of sex and age for vascular improvements with physical activity</i> Professor Ylva Hellsten, University of Copenhagen, Denmark
10:35 - 10:45	Q&A

10:45 - 11:00 Coffee break

Session 10

Sex differences in big data

11:00 - 11:30 ***GWAS and body fat distribution***
Samvida Venkatesh, PhD Student Oxford Big Data Institute, UK

11:30 - 11:40 Q&A

11:40 - 12:10 ***Sex differences within the gut microbiota and immune system***
Professor Susanne Brix Pedersen, Technical University of Denmark, Denmark

12:10 - 12:20 Q&A

Closing Session

12:30 - 13:00 Poster prize ceremony and closing remarks
