# Sex specific aspects in cardiometabolic research - Why, how and when to consider?

Date: 20th-21st January, 2025

**Venue:** Comwell Borupgaard, Nørrevej 80, 3070 Snekkersten **Course Leaders:** Janne Lebeck, Ylva Hellsten and Lasse Gliemann



## **PROGRAMME**

# 20th January, 2025

08:00 - 08:45 Registration and coffee

08:45 - 09:00 Welcome and introduction to the course

#### Session 1: Sexhormones and their physiological impact

Chairs: Charlotte Usselman and Ylva Hellsten

09:00 - 09:30	Female sexhormones and receptors' role in cardiometabolic health - what we do and do not know Susana Novella, Department of Physiology, University of Valencia (ES)
09:30 - 10:00	Male sexhormones and receptors' role in cardiometabolic health - what we do and do not know Anne Skakkebæk, MOMA, Aarhus University Hospital (DK)
10:00 - 10:30	Group discussion on posed questions from lecturers followed by common discussion with coffee
10:30 - 11:00	The influence of aging on sexhormone levels and how it affects cardiometabolic health Kerrie Moreau, The Department of Medicine, Division of Geriatrics at the University of Colorado (US)
11:00 - 11:30	Pharmacological alterations in sexhormones and their influence on cardiometabolic health Ellen Løkkegaard, Nordsjællands Hospital, Copenhagen University Hospital (DK)
11:30 - 12:00	Group discussion on posed questions from lecturers followed by common discussion
12:00 - 12:45	Lunch
12:45 - 14:45	Break - with a fun joint activity

#### Session 2: To what extent do sexhormones influence the development of cardiometabolic disease?

Chairs: Susana Novella and Janne Lebeck		
14:45 - 15:30	Influence of sex and gender on cardiovascular disease: epidemiology/mechanisms	
	Eva Prescott, Copenhagen University Hospital, Bispebjerg (DK) and Amani Meaidi, Danish Cancer Society (DK)	
15:30 - 16:00	Influence of sex and gender on metabolic disease: epidemiology/mechanisms	
	Susanna Hofmann, German Center for Diabetes Research, Ludwig-Maximilians University Munich (DE)	
16:00 - 16:30	Walk and talk and refreshments	
16:30 - 17:00	Women, plasma lipids, and atherosclerotic cardiovascular disease	
	Marianne Benn, Klinisk Biokemi, University of Copenhagen (DK)	
17:00 - 17:30	Menopause and changes in metabolic health	
	Steen Larsen, University of Copenhagen (DK)	
17:30 - 18:00	Group discussion on posed questions from lecturers followed by common discussion	
18:00 - 18:10	Short break	
18:10 - 19:20	Project Pitches Part 1	
19:20 - 22:30	Dinner, networking and a different angle on Sex Differences	

### 21st January, 2025

08:20 - 08:30 Welcome: introduction to the content of the day

#### Session 3: Prevention and treatment of cardiometabolic disease: relation to sex and gender

Chairs: Kerrie Moreau and Lasse Gliemann

08:30 - 09:30	Sex and gender in research
00.50 - 07.50	Charlotte Usselman Kinesiology & Physical Education McGill University (CA)

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10:00 Do sex differences in metabolic physiology warrant sex specific nutrition recommendations?

Faidon Magkos, NEXS, University of Copenhagen (DK)

10:00 - 10:20 Break & coffee

10:20 - 10:50 Do sex differences in cardiovascular and metabolic physiology warrant sex specific exercise recommendations?

Kerrie Moreau, University of Colorado (US) and Ylva Hellsten, NEXS, University of Copenhagen (DK)

10:50 - 11:20 Sex hormones and brain insulin sensitivity - implications for whole body metabolism and eating behavior

Martin Heni, Division of Endocrinology and Diabetology, University Hospital of Ulm (DE)

11:20 - 11:50 Group discussion on posed questions from lecturers followed by common discussion

11:50 - 12:35 Lunch

09:30

12:35 - 13:35 Project Pitches Part 2

#### Session 4: Methods and Experimental models in sex specific research: considerations

Chairs: Yaël Nossent and Christian Aalkjær

13:35 - 14:05 Experimental investigation of gene expression

Yaël Nossent, NEXS, University of Copenhagen (DK)

14:05 - 14:25 Animal and cell models and methods to study sex specific aspects

Yaël Nossent, University of Copenhagen (DK) and Steen Larsen, University of Copenhagen (DK)

14:25 - 14:45 Human/clinical models to study sex specific aspects

Lasse Gliemann, NEXS, University of Copenhagen (DK)

Workshop on animal and cell models and on human/clinical models (with coffee and refreshments)

16:15 - 16:30 Short break

14:45 - 16:15

#### Session 5: Getting ready for tomorrow's symposium

Chairs: Eva Prescott and Viviany Taqueti

"Crash course" on tomorrow's topics

16:30 - 17:00 Eva Prescott, Copenhagen University Hospital, Bispebjerg (DK) and Viviany Taqueti, Harvard Medical School, Brigham and Women's Hospital (US)

17:30 In groups: Dive into the programme for the symposium and research the speakers

17:30 - 18:00 Present your group's research for the co-participants of the course

18:00 - 18:20 In groups: What can I do to get the most out of the symposium?

18:20 - 18:30 Short break

#### **Session 6: Concluding Session**

Chair: Janne Lebeck

Festive talk: What does the law say about sex and gender in medicine?

Jakob Wested, Faculty of Law, University of Copenhagen (DK)

19:00 - 19:30 Final remarks for the course and oral evaluation

Course leaders

19:30 - 22:30 Dinner, networking and drinks

## **22nd January**, **2025**

08:10 - Check out and bus to the symposium at Novo Nordisk Foundation, Hellerup

09:00 - 17:30 **Symposium** 

17:30 - 20:00

Reception

Network, informal dinner and drinks