

Danish Diabetes Academy & Danish Cardiovascular Academy

Basal Cardio-Metabolic PhD Course

From impaired glucose and lipid metabolism to cardiovascular disease

12-14 October 2022

Sinatur Hotel Storebælt Østerøvej 121 DK-5800 Nyborg

Session overview



Day 1 Wednesday 12 October

Session I Fundamental biochemistry and cardiac physiology

Session II Type I diabetes
Session III Type II diabetes

Day 2 Thursday 13 October

Session IV Treatment of T1D vs. T2D; drugs, nutrition and exercise

Day 3 Friday 14 October

Session V CVDs and Diabetes; coronary heart disease, peripheral vascular disease

and stroke

Programme Wednesday 12 October

09:30-10:00	Registration & breakfast
10:00-10:20	Welcome, meet & greet & introduction to the course
	Professor Nils Færgeman , University of Southern Denmark (DK), Professor Thomas Jespersen , University of Copenhagen (DK), Managing Director Tore Christiansen , Danish Diabetes Academy (DK)
10:20-10:40	A life with diabetes and vascular complications – a patients tale
	TBD
Session I	Fundamental biochemistry and cardiac physiology
	Chair: Professor Thomas Jespersen , University of Copenhagen (DK)
10:40-11:10	Fundamental biochemistry of glucose and lipid metabolism
	Professor Nils J. Færgeman , University of Southern Denmark (DK)
11:10-11:20	Questions & answers
11:20-11:40	Fundamental cardiac physiology/pathophysiology
	Professor Thomas Jespersen, University of Copenhagen
11:40-11:50	Questions & answers
11:50-12:05	Group work – Discussion
12:05-13:00	Lunch
Session II	Type I diabetes

	Chair: Professor Thomas Jespersen , University of Copenhagen (DK)
13:00-13:30	Insulin; regulation of β -cell functions (secretion, signaling and turnover),
	Professor Flemming Pociot , Copenhagen University Hospital, Steno Diabetes Center Copenhagen (DK)
13:30-13:40	Questions & answers
13:40-13:45	Energizer
13:45-14:15	Insulin; regulation of $\beta\text{-cell}$ functions (secretion, signaling and turnover)
	Associate Professor Joachim Størling , Steno Diabetes Center Copenhagen (DK)
14:15-14:25	Questions & answers
14:25-14:40	Group work – Discussion (the student work with echocardiograms)
14:40-15:10	Tea & Coffee break
Session III	Type II diabetes
	Chair: Professor Thomas Jespersen , University of Copenhagen (DK)
15:10-15:40	Mechanisms of insulin resistance in type 2 diabetes. An integrated view
	Professor Kurt Højlund , Steno Diabetes Center Odense, University of Southern Denmark (DK)
15:40-15:50	Questions & answers
15:50-15:55	Energizer
15:55-16:25	Insulin resistance and T2D/cellular mechanisms of insulin resistance/inflammation
15:55-16:25	



16:35-16:50	Group work - discussion	
16:50-17:00	Recap of the day - Kahoot	
17:00-18:30	Free time	
18:30-20:00	Dinner	
20:30-	Bonfire in the garden	

Programme Thursday 13 October

07:00-08:30	Breakfast & morning exercise (optional)
08:30-08:35	Welcome back
	Professor Nils Færgeman, University of Southern Denmark (DK)
Session IV	Treatment of T1D vs. T2D; drugs, nutrition and exercise
	Chair: Professor Nils Færgeman , University of Southern Denmark (DK)
08:35-09:05	TBD
	Professor Signe Torekov , University of Copenhagen (DK)
09:05-09:15	Questions & answers
09:15-09:20	Energizer
09:20-09:50	Exercise and cold-activated pathways as a means to improve adipose tissue and cardiometabolic health
	Professor David Wright , University of British Columbia (CA)
09:50-10:00	Questions & answers
10:00-10:30	Tea & Coffee break
10:30-11:00	Appetite regulation
	Associate Professor Matthew Paul Gillum , University of Copenhagen (DK)
11:00-11:10	Questions & answers
11:10-11:25	Group work - Discussion

11:25-11:30	Energizer
11:30-13:00	Echo-cardio technologies workshop
13:00-14:00	Lunch
14:00-15:00	Demonstrations and student exercises
15:00-15:30	Tea & Coffee break
15:30-16:30	Demonstrations and student exercises
16:30-16:40	Recap of the day
16:40-17:30	Free time
18:00-19:00	Meet with a PI for a pre-dinner drink
19:00-	Dinner – coffee/beer will be served in the basement

Programme Friday 14 October

07:00-08:30	Breakfast & morning exercise (optional)
08:30-08:35	Welcome back
	Professor Thomas Jespersen , University of Copenhagen (DK)
Session V	CVDs and Diabetes; coronary heart disease, peripheral vascular disease, and stroke
	Chair: Assistant Professor Karolina Sulek , Steno Diabetes Center Copenhagen (DK)
08:35-09:05	Micro- and macrovascular diabetes complications
	Assistant Professor Joanna Maria Kalucka , Steno Diabetes Center Aarhus (DK)
09:05-09:15	Questions & answers
09:15-09:20	Energizer
09:20-09:50	The link between Hypertension and Diabetes
	Professor Michael Hecht Olsen , University of Southern Denmark (DK)
09:50-10:00	Questions & answers
10:00-11:00	Walk & Talk – Tea & Coffee to go
11:00-11:30	Pathophysiology of diabetic kidney disease
	Professor Mads Hornum, University of Copenhagen (DK)
11:30-11:40	Questions & answers

11:40-11:55	Group work - Discussion
12:00-13:00	Lunch
Session VI	Diabetes, Obesity and Cardiovascular disease
	Chair: Assistant Professor Karolina Sulek , Steno Diabetes Center Copenhagen (DK)
13:00-13:30	Diabetes/obesity in new-borns and vascular complications
	Senior Scientist Louise Groth Grunnet , Steno Diabetes Center Copenhagen (DK)
13:30-13:40	Questions & answers
13:40-13:45	Energizer
13:45-14:15	Diabetes/obesity in children/young, obesity and vascular complications
	Research scientist Morten Vonsild Lund , University of Copenhagen (DK)
14:15-14:25	Questions & answers
14:25-14:40	Group work - Discussion
14:40-14:50	Recap of the day
14:50-15:00	Evaluation, closing remarks & snack to-go



Organising Committee Scientific Programme

Nils Færgeman, Professor, University of Southern Denmark (DK)

Thomas Jespersen, Professor, University of Copenhagen (DK)

Tore Christiansen, Managing Director Danish Diabetes Academy (DK)



