

Neuroscience Academy Denmark

Danish Diabetes and Endocrine Academy

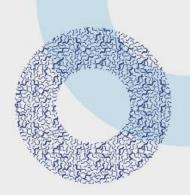
Neuroendocrine Control of Energy Metabolism

Symphony of Signals: Body-Brain Interactions in Stereo

30-31 May 2024

University of Copenhagen Haderup and Jerne auditoriums Blegdamsvej 3B DK-2200 Copenhagen N

Session overview



Day 1	Thursday 30 May (Haderup Auditorium)
Session I	Obesity Pathogenesis & Solutions – Will Obesity Still be a Problem
	in 10 Years?
Poster Session	Poster Pitches & Presentations: PP 1-32
Session IB	Neuroendocrine Control of Body Weight and Beyond
Session II	Type 2 Diabetes & Obesity – Is There a Role for the Brain?

Day 2	Friday 31 May (Jerne Auditorium)
Session III	Central Control of Peripheral Metabolism & Energy Homeostasis
Session IV	Short Talks Selected from Submitted Abstracts
Session V	Endocrine Control of Energy Homeostasis

Thursday 30 May Haderup Auditorium

08:30-09:30	Registration, light breakfast & mounting of posters
09:30-09:50	Welcome and introduction
	Education and Networking Coordinator Pernille Bruun Nielsen , Danish Diabetes and Endocrine Academy (DK) & Executive Director Nicolas Caesar Petersen , Neuroscience Academy Denmark (DK),
	Professor Jan-Wilhelm Kornfeld , University of Southern Denmark (DK), Associate Professor Christoffer Clemmensen , University of Copenhagen (DK) & Professor Tune Pers , University of Copenhagen (DK)
09:50-10:00	Meet & greet
Session I	Obesity Pathogenesis & Solutions – Will Obesity Still be a Problem in 10 Years?
	Chair: Professor Henriette Kirchner, University of Lübeck (DE)
10:00-10:20	Chair: Professor Henriette Kirchner, University of Lübeck (DE) Mapping the Feeding Circuitry in the Human Brain
10:00-10:20	
10:00-10:20	Mapping the Feeding Circuitry in the Human Brain
	Mapping the Feeding Circuitry in the Human Brain Professor Giles Yeo , University of Cambridge (UK)
10:20-10:30	Mapping the Feeding Circuitry in the Human Brain Professor Giles Yeo , University of Cambridge (UK) Questions & answers
10:20-10:30	Mapping the Feeding Circuitry in the Human Brain Professor Giles Yeo , University of Cambridge (UK) Questions & answers Incretin-based Treatment of Obesity
10:20-10:30 10:30-10:50	 Mapping the Feeding Circuitry in the Human Brain Professor Giles Yeo, University of Cambridge (UK) Questions & answers Incretin-based Treatment of Obesity Professor Jens Juul Holst, University of Copenhagen (DK)

	Poster Session	Chair: Professor Nils Færgeman , University of Southern Denmark and Chair of Committee for Education, Danish Diabetes and Endocrine Academy (DK)
	11:30-12:05	Poster pitches: PP 1-32
	12:05-13:45	Posters & lunch 12:10-12:55: Odd numbers 12:55-13:40: Even numbers
	Session IB	Neuroendocrine Control of Body Weight and Beyond
		Chairs: Professor Kate Lykke Lambertsen, University of Southern Denmark (DK) & Professor Henrik Oster, University of Lübeck (DE)
	13:45-14:05	Long-acting GLP-1 Receptors Agonists Effects in the Brain
		Chief Scientific Advisor Lotte Bjerre Knudsen , Novo Nordisk (DK)
	14:05-14:15	Questions & answers
	14:15-14:35	Oral Contraceptive Exposure Alters Brain Energy Metabolism and Exacerbates Ischemic Stroke Injury in Female Rats
		Associate Professor Ami Raval, University of Miami (US)
	14:35-14:45	Questions & answers
	14:45-15:15	Coffee break & networking at posters
	15:15-15:35	A Striatal - Lateral Hypothalamic Circuit in Control of Glucose Metabolism
		Professor Susanne la Fleur, University of Amsterdam (NL)
	15:35-15:45	Questions & answers

Session II	Type 2 Diabetes & Obesity – Is There a Role for the Brain?
	Chairs: Professor Tune Pers , University of Copenhagen (DK) & Associate Professor Christoffer Clemmensen , University of Copenhagen (DK)
15:45-16:05	They Day After: Weight Management by Leptin Resensitization
	Professor Paul Pfluger, Helmholtz Munich (DE)
16:05-16:15	Questions & answers
16:15-16:30	Energizer
16:30-16:50	Decoding the Obese Brain: A Matter of Cell Identity?
	Principal Investigator Carmelo Quarta, INSERM (FR)
16:50-17:00	Questions & answers
17:00-17:15	Poster awards & concluding remarks of the day
17:15-17:50	Networking & wine at posters
18:30-21:00	Symposium dinner
	Restaurant Roberta Sortedams Dossering 3 2200 Copenhagen



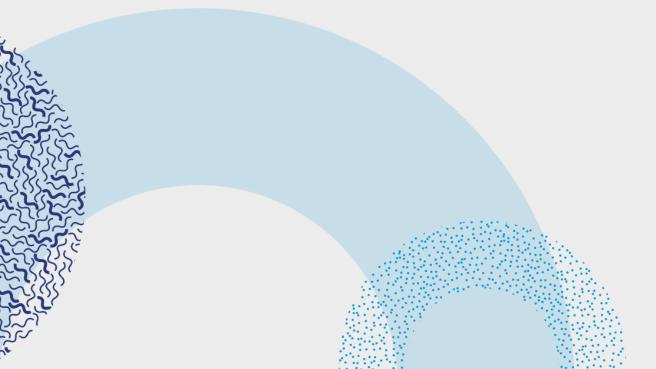
Friday 31 May Jerne Auditorium

	08:00-08:30	Coffee, tea & light breakfast
	08:30-08:40	Welcome back
	Session III	Central Control of Peripheral Metabolism & Energy Homeostasis
		Chair: Professor Jan-Wilhelm Kornfeld , University of Southern Denmark (DK)
	08:40-09:00	Sympathetic Nervous System Regulation of Brown Adipose Tissue Function
		Professor Lori Zeltser, Columbia University, New York (US)
	09:00-09:10	Questions & answers
	09:10-09:30	Adipose Tissue Inter-Organ Crosstalk in Health and Disease: From Adipose Tissue to the Brain and Back
		Professor Philipp Scherer , University of Texas Southwestern Medical Center (US)
	09:30-09:40	Questions & answers
	09:40-10:10	Coffee break & networking at posters
	Session IV	Short Talks Selected from Submitted Abstracts
		Chairs: Associate Professor Kim Ravnskjær , University of Southern Denmark (DK) & Associate Professor Lars Grøntved , University of Southern
		Denmark (DK)

10:10-10:20	Carbon Dioxide Inhibits Brown Fat Thermogenesis in a Cerebrovascular Reactivity-susceptible Manner
	PhD Student Dorothea Ziemens, University of Lubeck (DE)
10:20-10:25	Questions & answers
10:25-10:35	Adipose Tissue Retains an Epigenetic Memory of Obesity that Persists After Weight Loss
	Postdoctoral Fellow Laura Hinte, ETH Zürich (CH)
10:35-10:40	Questions & answers
10:40-10:50	Food Insecurity Influences Feeding Behaviour and Energy Metabolism in Mice and Their Offspring
	PhD Student Cláudia Gil, University of Copenhagen (DK)
10:50-10:55	Questions & answers
10:55-11:05	Energizer
10:05-11:15	Delineating Leptin Regulated Hypothalamic Feeding Circuits with Single Cell Transcriptomics
	Postdoctoral Fellow Dylan M. Rausch , University of Copenhagen (DK)
11:15-11:20	Questions & answers
11:20-11:30	Menstrual Cycle Modulates the Brain's Response to Central Insulin and Food Cues
	Professor Stephanie Kullmann, University of Tübingen (DE)
11:30-11:35	Questions & answers
11:35-11:45	Maternal Thyroid Hormone Receptor β Activation Reprograms Offspring's BAT Thermogenesis and Glucose Tolerance
	Junior Group Leader Dr. Rebecca Ölkrug , University of Lübeck (DE)
11:45-11:50	Questions & answers

11:50-12:50	Lunch at posters
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Session V	Endocrine Control of Energy Homeostasis
	Chair: Associate Professor Emma Börgeson , Steno Diabetes Center Aarhus, Aarhus University (DK)
12:50-13:10	Extracellular Vesicles: Novel Players in Metabolic Diseases
	Professor Kerstin Stemmer, University of Augsburg (DE)
13:10-13:20	Questions & answers
13:20-13:40	GDF15 Emerging Biology and Potential Therapeutic Implications for Obesity
	Professor Gregory Steinberg, McMaster University (CA)
13:40-13:50	Questions & answers
13:50-14:00	Concluding remarks & farewell



Organising Committee Scientific Programme

Christoffer Clemmensen, Associate Professor, Group leader, Novo Nordisk Foundation Center for Metabolic Research, University of Copenhagen (DK)

Emma Börgeson, Associate Professor, Group leader, Steno Diabetes Center Aarhus, Aarhus University (DK)

Henriette Kirchner, Professor, Group leader, Institute for Human Genetics, Center of Brain, Behavior and Metabolism, University of Lübeck (DE)

Henrik Oster, Professor, Institute Director, Lübeck Institute of Neurobiology, Center of Brain, Behavior and Metabolism, University of Lübeck (DE)

Jan-Wilhelm Kornfeld, Professor, Group leader, Department of Biochemistry and Molecular Biology, University of Southern Denmark (DK)

Jens Mittag, Professor, Head of Institute, Institute of Endocrinology and Diabetes, Center of Brain, Behavior and Metabolism, University of Lübeck (DE)

Kate Lykke Lambertsen, Professor, Group leader, Department of Molecular Medicine, University of Southern Denmark (DK)

Kim Ravnskjær, Associate Professor, Group leader, Department of Biochemistry and Molecular Biology, University of Southern Denmark (DK)

Lars Grøntved, Associate Professor, Group leader, Department of Biochemistry and Molecular Biology, University of Southern Denmark (DK)

Nils J. Færgeman, Professor, Group leader, Department of Biochemistry and Molecular Biology, University of Southern Denmark and Chair of Committee for Education, Danish Diabetes and Endocrine Academy (DK)

Tune H. Pers, Professor, Group leader, Novo Nordisk Foundation Center for Metabolic Research, University of Copenhagen (DK)

This symposium is organised by the Neuroscience Academy Denmark (NAD) and the Danish Diabetes and Endocrine Academy (DDEA) to ultimately lead to more interdisciplinary research and training activities.



Neuroscience Academy Denmark



