

WEDNESDAY October 4

08:30 - 10:00 SESSION 9: NAD, Sirtuins, and aging

Leonard Guarente · MIT, USA
Title: Sirtuins, NAD+ and stem cells

Wolfgang Wagner · Helmholtz-Institut für Biomedizinische Technologien, Germany
Title: DNA Methylation changes in aging and replicative senescence

SHORT TALK: Carles Canto · Nestlé Institute of Health Sciences, Switzerland
Title: Molecular and organismal insights into the critical role of mitofusin enzymes in metabolic control

Chair: **Jonas Thue Treebak** · NNF Center for Basic Metabolic Research, University of Copenhagen, Denmark

10:00 - 10:30 BREAK

10:30 - 12:00 SESSION 10: Circadian Biology: from the molecular clock to physiological rhythms - Part I

Joseph Bass · Northwestern University, USA
Title: Circadian genomic control of beta cell function and metabolism

Helene Duez · University of Lille, France
Title: Nuclear receptor Rev-erb- α as a plausible link between a dysregulated biological clock and NLRP3-driven pathologies

SHORT TALK: Nolan Hoffman · Australian Catholic University, Australia
Title: Investigating new roles for AMPK in the regulation of tissue molecular clocks underlying circadian biology

Chair: **Liming Pei** · Children's Hospital of Philadelphia, USA

12:00 - 13:15 LUNCH

13:15 - 14:45 SESSION 11: Circadian Biology: from the molecular clock to physiological rhythms - Part II

Mitch Lazar · University of Pennsylvania, USA
Title: Coordination of circadian and metabolic physiology by Rev-erba and HDAC3

Satchidananda Panda · Salk Institute, USA
Title: Circadian regulation of metabolism for the prevention and treatment of metabolic diseases

SHORT TALK: Kenneth Dyar · Helmholtz Zentrum München GmbH, Germany
Title: Transcriptional programming of lipid and amino acid metabolism by the skeletal muscle circadian clock

Chair: **Zach Gerhart Hines** · NNF Center for Basic Metabolic Research, University of Copenhagen, Denmark

14:45 - 15:30 BREAK

15:30 - 17:00 SESSION 12: Circadian Biology: from the molecular clock to physiological rhythms - Part III + closing remarks

Paolo Sassone-Corsi · University of California Irvine, USA
Title: Common Threads: Metabolism, epigenetics and the circadian clock

Closing remarks: Stefano Schiaffino · Venetian Institute of Molecular Medicine (VIMM), Italy

Chair: **Juleen Zierath** · NNF Center for Basic Metabolic Research, University of Copenhagen, Denmark / Karolinska Institut, Sweden

17:00 Back to hotels for changing

18.30 Welcome drinks at Favrholm + Dinner

THURSDAY October 5

09:00 Check-out, breakfast + departure

09:15 Bus departure from Hotel Hillerod/Pharmakon → University of Copenhagen → Copenhagen Airport

09:30 Bus departure from Favrholm Campus → University of Copenhagen → Copenhagen Airport

Copenhagen Bioscience Conferences

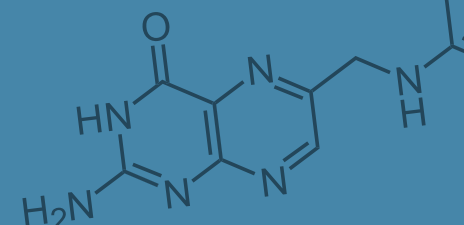
a novo nordisk foundation initiative

12th Conference
1-5 October 2017

PROGRAMME

METABOLISM IN ACTION

lifetime influence of genes and environment



SUNDAY October 1

14:00 - 17:30	Arrival & check-in at Favrholt / Hotel Hillerød / Pharmakon
17:30 - 19:30	Buffet dinner at Favrholt
19:30	SESSION 1: Welcome
Official Opening by Lars Torup, Novo Nordisk Foundation and Romain Barrès, NNF Center for Basic Metabolic Research, University of Copenhagen, Denmark	
Talk by David James, University of Sydney, Australia	
20:30 - 22:00	Coffee and drinks

MONDAY October 2

08:30 - 10:00	SESSION 2: Developmental origins
Minoo Rassoulzadegan · <i>University of Nice Sophia Antipolis, France</i> Title: Mouse paternal-RNAs initiate pattern of metabolic disorders in the offspring	
Kelle Moley · <i>Washington University School of Medicine in St. Louis, USA</i> Title: Maternal metabolic disorders, oocyte quality and longterm offspring health	
SHORT TALK: Raffaele Teperino · <i>Helmholtz Zentrum München GmbH, Germany</i> Title: Multigenerational metabolic control: the role of Polycomb	
Chair: Romain Barrès · <i>NNF Center for Basic Metabolic Research, University of Copenhagen, Denmark</i>	
10:00 - 10:30	BREAK
10:30 - 12:00	SESSION 3: Nutritional influence on the epigenome
Klaus Kaestner · <i>Pereknab School of Medicine, University of Pennsylvania, USA</i> Title: The dynamic methylome of islet cells in aging and diabetes	
Philippe Froguel · <i>University of Lille, France/Imperial College Faculty of Medicine, United Kingdom</i>	
SHORT TALK: Elisabet Stener-Victorin · <i>Karolinska Institut, Sweden</i> Title: Fecal microbial transplantation to elucidate if an altered gut microbiome causes reproductive dysfunction and anxiety-like behavior in mice exposed to maternal androgens and diet-induced obesity	
Chair: Kim Ravnkjær · <i>University of Southern Denmark, Denmark</i>	
12:00 - 13:00	LUNCH + PHOTO SESSION
13:00 - 14:30	SESSION 4: Metabolic genes in action
Ruth Loos · <i>Icahn School of Medicine at Mount Sinai, USA</i> Title: The genetics of obesity: Genes that make you fat but keep you healthy	
Atul R. Chopra · <i>Baylor College of Medicine, USA</i> Title: Human genetics aided discovery of a new metabolic hormone	
SHORT TALK: Niels Grarup · <i>NNF Center for Basic Metabolic Research, University of Copenhagen, Denmark</i> Title: Effect of variants in MLXPIPL on sugar intake and metabolic health in a Danish population	
Chair: Tuomas Kilpeläinen · <i>NNF Center for Basic Metabolic Research, University of Copenhagen, Denmark</i>	

14:30 - 15:00	BREAK
15:00 - 16:45	SESSION 5: Metabolic control by organ cross-talk
Philip Scherer · <i>University of Texas Southwestern Medical Center, USA</i> Title: The Adipocyte: Metabolic mastermind of the system	
Francesc Villarroya · <i>University of Barcelona, Spain</i> Title: Brown adipokines and metabolic regulation	
SHORT TALK: Marcelo Mori · <i>Universidade Estadual De Campinas (Unicamp), Brazil</i> Title: Delaying aging and improving metabolism with drugs that target miRNA biogenesis	
SHORT TALK: Christoffer Clemmensen · <i>Helmholtz Zentrum München GmbH, Germany</i> Title: Coordinated targeting of cold and nicotinic receptors synergistically reverses metabolic disease	
Chair: Camilla Scheele · <i>NNF Center for Basic Metabolic Research, University of Copenhagen, Denmark</i>	
16:45 - 18:30	Poster Session
18:45 - 20:30	Dinner
20:30 - 22:00	Meet the experts (PI Pub, Editors' Corner)

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TUESDAY October 3

08:30 - 10:00	SESSION 6: Immunometabolism
Amira Klip · <i>University of Toronto, British Columbia, Canada</i> Title: The NOD1 innate immune receptor mediates macrophage pro-inflammatory polarization in obesity	
Mikael Rydén · <i>Karolinska Institut, Sweden</i> Title: Immunometabolism in human fat tissue	
SHORT TALK: Anna Krook · <i>Karolinska Institut, Sweden</i> Title: miRNA expression profiling of serum exosomes following exercise training	
Chair: Thue Schwartz · <i>NNF Center for Basic Metabolic Research, University of Copenhagen, Denmark</i>	
10:00 - 10:15	BREAK
10:15 - 12:00	SESSION 7: Gut microbiota in action: Modulations and mechanisms
Max Nieuwdorp · <i>AMC Amsterdam, The Netherlands</i> Title: Gut microbiota in action: Modulations and mechanisms using FMT	
Oluf Borbye Pedersen · <i>NNF Center for Basic Metabolic Research, University of Copenhagen, Denmark</i> Title: Is dysbiosis of intestinal microbiota a pathogenic mediator in common polygenic disorders?	
SHORT TALK: Salvatore Fabbiano · <i>University of Geneva, Switzerland</i> Title: Caloric restriction promotes white adipose tissue browning	
SHORT TALK: Marc-Emmanuel Dumas · <i>Imperial College London, United Kingdom</i> Title: Molecular phenomics and metagenomics of non-alcoholic fatty liver disease	
Chair: Manimozhiyan Arumugam · <i>NNF Center for Basic Metabolic Research, University of Copenhagen, Denmark</i>	
12:00 - 12:45	LUNCH
12:45 - 14:00	SESSION 8: Metabolic disease from cell to organ
Chad A. Cowan · <i>Harvard University, USA</i> Title: Investigating metabolic disease using human pluripotent stem cells	
SHORT TALK: Michael De Lisio · <i>University of Ottawa, Canada</i> Title: Characterizing circulating hematopoietic stem/progenitor cell populations in lean and obese adults after short-term exercise training	
SHORT TALK: Jan Kornfeld · <i>Max Planck Institute for Metabolism Research, Germany</i> Title: A novel MafG-lncRNA axis controls nutrient partitioning and hepatic insulin sensitivity in mice	
Chair: Brice Emanuelli · <i>NNF Center for Basic Metabolic Research, University of Copenhagen, Denmark</i>	
14:00 - 15:00	Speed Networking
15:00 - 17:00	Poster Session
17:00	Departure by bus to Copenhagen
18:00	Canal tour
19:00	Dinner at Restaurant SALT
22:00	Back to the hotels