RISING STARS IN PHYSIOLOGY
Symposium 28 November – 29 November 2019

The Royal Danish Academy of Sciences and Letters
H.C. Andersens Boulevard 35, Copenhagen, Denmark

ORGANIZERS
Professor Jørgen F.P. Wojtaszewski, University of Copenhagen
Professor Bente Kiens, University of Copenhagen
Assoc. Professor Nadja Møbjerg, University of Copenhagen
Professor Henriette Pilegaard, University of Copenhagen

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NOVO NORDISK FOUNDATION
Day 1 - Thursday 28 November

08:30–09:00 Arrival, registration, coffee & bread

09:00–09:15 Welcome speech
Professor Jørgen F.P. Wojtaszewski, University of Copenhagen, Denmark

Session 1:
09:15–09:45 Applications of beta2-agonists - from obesity to athletes
Associate professor Morten Hostrup, Integrative Physiology Group, Department of Nutrition, Exercise and Sports, University of Copenhagen, DK

09:45–10:15 Deciphering tissue cross talk during exercise
Senior Lecturer Martin Whitham, School of Sport Exercise & Rehabilitation Sciences, University of Birmingham, UK

10:15–10:45 Regulation of glucagon secretion – a metabolic perspective
Assistant professor Jakob Grunnet Knudsen, Section for Cell Biology and Physiology, Department of Biology, University of Copenhagen, DK

10:45–11:15 Coffee break

Session 2:
11:15–11:45 Vascular function in health and disease – the beauty and the beast
Assistant professor Lasse Gliemann, Integrative Physiology Group, Department of Nutrition, Exercise and Sports, University of Copenhagen, DK

11:45–12:15 Controlling arterial tone – the role of the microtubule network
Assistant Professor Thomas Qvistgaard Jepps, Vascular Research Group, Department of Biomedical Science, University of Copenhagen, DK

12:15–13:30 Lunch

Session 3:
13:30–14:00 All singing, all-dancing: The embodied motor control of vocal behavior
Associate professor Coen Elemans, Sound Communication Group, Department of Biology, University of Southern Denmark, DK

14:00–14:30 Subcellular compartmentalization of energy stores in muscle
Associate professor Joachim Nielsen, Department of Sport Science and Clinical Biomechanics, University of Southern Denmark, DK

14:30–15:00 Decoding the homeostatic mechanisms of body weight regulation: Implications for obesity treatment
Associate professor Christoffer Clemmensen, Novo Nordisk Foundation Center for Basic Metabolic Research, Faculty of Health and Medical Sciences, University of Copenhagen, DK
15:00–15:30 Coffee break

Session 4:
15:30–16:00 **Phosphoproteomics reveals global rewiring of adipocyte insulin signalling in insulin resistance**
MRC Career Development Fellow Daniel Fazakerley, Institute of Metabolic Science – Metabolic Research Laboratories, Department of Clinical Biochemistry, University of Cambridge, AUS

16:00–16:30 **Mitochondrial redox control over health and disease**
Assistant Professor Edward Chouchani, Harvard Medical School/Dana-Farber Cancer Institute, US

16:30–16:40 Final remarks

17:15–17:30 Arrival at the National Museum of Denmark

17:30–18:45 Guided tour at the National Museum of Denmark (Vikings exhibition)

19:00–21:30 Dinner at National Museum of Denmark

Day 2 – 29 November 2019

09:00–09:15 Good morning

Session 5:
09:15–09:45 **Exercise response variation in type 2 diabetes: a clinical outcome with epigenetic underpinnings**
Lauren Sparks, Investigator, Translational Research Institute for Metabolism & Diabetes at AdventHealth, Florida, US

09:45–10:15 **RabGAPs in exercise physiology**
Dr. Alexandra Chadt, German Diabetes Center, Leibniz-Center for Diabetes Research, Heinrich-Heine University Düsseldorf, GE

10:15–10:45 **NextGen proteome-wide systems genetics to interrogate metabolism**
Senior Research Fellow Benjamin Parker, Department of Physiology, Faculty of Medicine Dentistry and Health Sciences, The University of Melbourne, AUS

10:45–11:15 Coffee break

Session 6:
11:15–11:45 **Novel Mechanisms for Maternal Exercise to Improve Offspring Health**
Assistant Professor Kristin Stanford, Davis Heart and Lung Research Institute, The Ohio State University Wexner Medical Center, US
11:45–12:15 **Brown fat in human metabolism**
Associate professor Camilla Schéele, Novo Nordisk Foundation Center for Basic Metabolic Research, Faculty of Health and Medical Sciences, University of Copenhagen, DK

12:15–13:30 Lunch

**Session 7:**
13:30–14:00 **Role of NAMPT and NAD+ precursors for metabolic health and disease**
Associate professor Jonas T Treebak, Novo Nordisk Foundation Center for Basic Metabolic Research, Faculty of Health and Medical Sciences, University of Copenhagen, DK

14:00–14:30 **Microvascular Oxygen Transport and Regulation**
Assistant Professor Graham Fraser, Cardiovascular Sciences, Division of BioMedical Sciences, Memorial University of Newfoundland, CA

14:30–15:00 **Metabolic programming by the skeletal muscle circadian clock**
Postdoc Kenneth Dyar, Molecular Endocrinology, Institute for Diabetes and Cancer, Helmholtz Zentrum Munich, GE

15:00–15:30 Coffee break

**Session 8:**
15:30–16:00 **Identifying the cellular source of fat and fibrosis in human skeletal muscle**
Postdoc Jean Farup, Research Laboratory for Biochemical Pathology, Dept of Clinical Medicine, Aarhus University and Dept of Biomedicine, Aarhus University, DK

16:00–16:30 **Rho GTPases -Emerging Regulators of Glucose Homeostasis in Health and Disease**
Assistant Professor Lykke Sylow, Molecular Physiology Group, Department of Nutrition, Exercise and Sports, University of Copenhagen, DK

16:30–16:45 Final remarks

16:45–17.30 Socializing/Carlsberg beer/farewell