

Special symposium on Extracellular vesicles and metabolism

Date: Thursday 16 May 2024
Time: 12:15pm
Attend: 0881-416 - Mayne Medical School Building,
Learning Theatre (ES Meyers)

Extracellular vesicles in cardiovascular and metabolic disease

with Associate Professor Naveed Akbar, University of Oxford - UK

The Akbar Lab focuses on endothelial cell derived extracellular vesicles (EV) in Cardiovascular and metabolic disease. We have shown that endothelial cell derived EV are enriched in the blood following acute myocardial infarction, where they associate with the extent of myocardial injury in patients. These plasma liberated EV carry endothelial cell associated markers on their surface and mediate the mobilisation of splenic-neutrophils and splenic-monocytes to the peripheral blood. Simultaneously, these Plasma liberated EV show enrichment of RNAs following heart injury, which appear to prime the immune system for inflammatory activation, which may govern the extents of inflammatory injury to the heart.



Circulating and cellular microRNAs involved in metabolic disease

with Professor Louise Torp Dalgaard

Louise Torp Dalgaard is Professor of Molecular Metabolism at the Department of Science and Environment at Roskilde University, Denmark. Dr. Dalgaard obtained her PhD in Biomedicine in 2001 from the University of Copenhagen, Denmark. She then went for post-doctoral training in the lab of Brad Lowell, Endocrine Division of Beth Israel Deaconess Medical Center, Boston, USA, from 2001-2003 supported by the Danish Independent Research Council for Medical Sciences. Returning to Denmark, she was an Independent Research Council supported Assistant Professor at the Department of Biochemistry and Genetics, University of Copenhagen. From 2007 she took up a post as Associate Professor in Medical Biology at Roskilde University, in 2017 promoted to Professor (MSO) of Medical Biology, and from 2022 full Professor. She is a member of the Academic Council at Roskilde University and of the Education Committee of the Danish Diabetes and Endocrine Committee. She was organizer of the Danish Diabetes Academy Symposia: MicroRNAs in Metabolism, 2015, Denmark, Non-coding RNAs in Metabolic Disease, 2019 and RNA Mechanisms and Therapeutics in Metabolic Disease, 2021 and she is a partner of the Center for RNA Therapeutics Towards Metabolic Disease (RNA-META).

