DukeNUS Medical School

Signature Seminar Series

Optimizing energy metabolism to treat heart failure with preserved ejection fraction (HFpEF)

ABOUT THE LECTURE

Heart failure with preserved ejection fraction (HFpEF) is accompanied by dramatic alterations in cardiac energy metabolism that contribute to the severity of contractile dysfunction. This includes a decrease in mitochondrial glucose oxidation and ketone oxidation, and an increase in fatty acid oxidation. This results in a decrease in both cardiac efficiency and overall ATP production. Stimulating glucose oxidation not only improves cardiac energy production, it also improves contractile function. As a result, optimizing cardiac energy production is a potential promising therapeutic approach to treating HFpEF.



Speaker: **Prof Gary D. Lopaschuk, PhD FRSC**
Distinguished Professor of Pediatrics
Faculty of Medicine & Dentistry
University of Alberta, Edmonton, Canada

Host: **Prof Derek Hausenloy**
Programme in Cardiovascular & Metabolic Disorders
Duke-NUS Medical School

Date: Tuesday, 15 November 2022

Time: 3.00 PM - 4.00 PM

Venue: For in-person attendance *(by registration only)*, please register ***HERE***.
(Limited seats available in the Amphitheatre. Registration will be on a first-come-first-served basis)

For virtual seminar (via Zoom), please register ***HERE***.
(Please rename your login name to include your institution to facilitate admission)

Contact Person: **Ms Kathleen Chan (kathleen.chan@duke-nus.edu.sg)**
Duke-NUS Research Affairs Department

ABOUT THE SPEAKER

Dr. Gary D. Lopaschuk is a Distinguished Professor of Pediatrics in the Faculty of Medicine & Dentistry, University of Alberta, Edmonton, Canada. He is also a Fellow of the Royal Society of Canada. His research focuses on the regulation of energy metabolism in the heart, and the mechanism by which high rates of fatty acid oxidation and low glucose oxidation contribute to heart disease and heart failure. His research has resulted in the publication of over 450 research articles, and he has been recognized by awards such as the Canadian Cardiovascular Research Achievement Award, the International Academy of Cardiovascular Sciences Research Achievement Award, and the University of Alberta University Cup.

** Please be informed that photography and videography may be taken by Duke-NUS authorized personnel during the event for publicity purposes.*