DukeNUS Medical School

CSCB Seminar Series

Title:

"The Ubiquitous Methyl Cycle."

Abstract:

The methyl cycle is an ancestral biochemical pathway in which methionine is used for the synthesis of S-adenosylmethionine, the methyl donor cosubstrate in transmethylation reactions. It is sensitive to the metabolic state of the organism, and has a wide impact on gene expression and function via methylation of nucleic acids, proteins, phospholipids and small molecules.

We have shown that inhibiting the methyl cycle causes the circadian clock to slow down in mouse and human cells, notably due to the decrease of mRNA m6A methylation of clock gene transcripts.

We are currently investigating whether the link between the clock and the methyl cycle is conserved in the course of evolution, and if exogenous supply of methyl cycle metabolites have an impact on the circadian clock.

Date:

26 Feb 2018 (Monday)

Venue:

Amphitheatre, Level 2
Duke-NUS Medical School
8, College Road,
Singapore 169857

Time:

12:00 - 1:00 p.m.

Host:

David Virshup
Professor & Director
Programme in Cancer & Stem Cell Biology
Duke-NUS Medical School
Singapore

Speaker:



Jean-Michel Fustin
Lecturer
Graduate School of Pharmaceutical Sciences,
Department of Systems Biology
Kyoto University

2001-2004: Research assistant at the University of Aberdeen/ Rowett Research Institute, Aberdeen, UK.
2004-2008: Doctor of Philosophy in Zoology, Aberdeen University (Supervisor: Prof. David Hazlerigg).

2008-2014: Post-doc in Kyoto University, Department of Systems Biology.

2014-present: Lecturer in Kyoto University, Department of Systems Biology.

Near future: establishing a brand new lab!

No registration is required. All are welcome.
Any enquiries, please contact: Jamie Liew (+65 6516 6954)

CSCB Cancer and Stem Cell Biology