

Cancer Science Institute of Singapore

SEMINAR ANNOUNCEMENT

Jerry Workman

Principal Investigator

Stowers Institute for Medical Research



Signaling to Chromatin from Transcription and Metabolism

Date: Monday, 20 Feb 2017

Time: 11am – 12pm

Venue: Auditorium, Clinical Research Centre (MD11 L1)
(10 Medical Drive, S117597)

Host: Prof Teh Bin Tean

Abstract:

There will be two parts to this presentation. The first will describe the Set2/Rpd3S pathway through which the Set2 histone methyltransferase co-transcriptionally methylates histone H3K36. H3K36me3 suppresses the production of non-coding RNAs from within open reading frames by resetting chromatin structure there. The second part will discuss the discovery and analysis of the SESAME (Serine Responsive Sam containing Metabolic Enzyme complex) that senses cellular metabolism and signals for histone H3T11 phosphorylation through PKM2 and H3K4 methylation by providing SAM to the Set1 complex.

Biography:

Dr Workman pioneered the study of ATP-dependent nucleosome remodeling complexes and purified the first transcription co-activator/histone acetyltransferase complexes. He was the Paul Berg Professor of Biochemistry at Penn State, was chosen as a Stohman Scholar by the Leukemia Society and was appointed an Investigator by the Howard Hughes Medical Institute. In 2003 he moved to the Stowers Institute. In 2013, he was inducted into the American Academy of Arts and Sciences.