

CANCER SCIENCE INSTITUTE OF SINGAPORE SEMINAR ANNOUNCEMENT

Edward Yeh

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MD Anderson Cancer Center, University of Texas



The Molecular Basis of Anthracycline-induced Cardiotoxicity

Date: Monday, 2 March 2015

Time: 11am – 12pm

Venue: LT35, Level 1 Auditorium, MD6

14 Medical Drive, Singapore 117599

Host: Prof. Lorenz Poellinger

Abstract:

[Pending]

Biography:

Prof. Yeh discovered two ubiquitin-like proteins (SUMO and NEDD8), identified the activating/conjugating/de-conjugating enzymes, and demonstrated their importance in the regulation of multiple biological pathways. He identified the mechanisms whereby failure to reverse SUMO modification caused fetal anemia due to HIF1a instability, defective T and B cell development due to blocked STAT5 signaling, and seizures and sudden death due to inactivation of the Kv7 potassium channel. Prof. Yeh is also widely recognized for establishing the field of Onco-Cardiology that specializes in prevention and treatment of cancer therapy-induced cardiovascular complications. He made the fundamental discovery that Topoisomerase 2b (Top2b) mediates anthracycline-induced cardiotoxicity changing the 40 year old paradigm that AIC is due to ROS generation alone. He trained leaders in the field and edited the textbook that defined the field of Onco-Cardiology.