CSCB Seminar Series

Title:

"Recreating complex vascularized tissue microenvironments in vitro."

Abstract:

Current in vitro models do a poor job of recapitulating the complexities of tissues in vivo. To address this problem we have created 3D Vascularized Micro-Organs (VMOs) that consist of tissue-specific cells (including cardiomyocytes, pancreatic islets, neurons, bone marrow cells, and a variety of tumor cells) growing in a 3D matrix and supplied with nutrients through a network of living capillaries. These organ-on-chip models provide an ideal platform for both basic research and drug testing.

Date:

5th May 2017 (Friday)

Time:

12:00 PM to 1:00 PM

Venue:

Amphitheatre, Lvl 2
Duke-NUS Medical School
8 College Road, S169857
(Opposite Singapore General Hospital, Block 6/7)

Host:

Sin Tiong ONG, MA, MRCP
Associate Professor
Programme in Cancer & Stem Cell Biology
Duke-NUS Medical School

"No registration is required."
Any enquiry, please contact:
Lilian Poon (Tel: 6601 3779)

Speaker:



Christopher C.W. HUGHES, Ph.D.
Professor and Francisco J. Ayala Chair
Department of Molecular Biology & Biochemistry
Biomedical Engineering Director, Edwards Lifesciences Center for Advanced Cardiovascular Technology
University of California, Irvine, U.S.A.

Biography:

Prof. Hughes is Chair of the Department of Molecular Biology & Biochemistry at UC Irvine and has a joint appointment in Biomedical Engineering. He has extensive experience in the field of vascular biology and bioengineering. He is Interim Director of the Edwards Lifesciences Center for Advanced Cardiovascular Technology, and co-director of the OncoImaging and Biotechnology Program in UCI's Cancer Center. He is a fellow of AAAS and serves as Chair of cureHHT's global scientific advisory board.