香港浸會大學
HONG KONG BAPTIST UNIVERSITY

環境與生物分析國家重點實驗室
State Key Laboratory of
Environmental and Biological Analysis

香港浸會大學理學院
HKBU Faculty of Science
Department of Chemistry

Analyzing thousands of individual cellular lipid species without chromatographic separation

by

Prof. Xianlin Han

Center for Metabolic Origins of Disease,
Sanford Burnham Prebys Medical Discovery Institute

Date : 8 November 2016 (Tuesday)

Time : 10: 30 a.m.

Venue: SCT 909
Cha Chi-Ming Science Tower
Ho Sin Hang Campus
Hong Kong Baptist University

All Interested are Welcome

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Prof. Xianlin Han graduated from the Department of Chemistry of Zhejiang University, China in 1982, received his Ph.D. in Chemistry at Washington University in St. Louis in 1990, and trained as a postdoctoral fellow in Dr. Richard Gross' lab at Washington University School of Medicine between 1990 and 1992. Dr. Han joined the Division of Bioorganic Chemistry at Washington University School of Medicine as a research faculty from 1992 to 2000. He became a tenure-tracked Assistant Professor of Medicine at Washington University School of Medicine in 2000 and was promoted to Associate Professor of Medicine with tenure in 2008. Since 2010, Dr. Han is a Professor in the Programs of Cardiovascular Metabolism & Integrative Metabolism at Sanford Burnham Prebys Medical Discovery Institute.

Prof. Han is one of the pioneers in lipidomics and the inventor of shotgun lipidomics. He has published over 200 peer-reviewed papers in journals and 14 invited book chapters with an h-index of 66 and citations over 15,500. He holds 5 international patents. He is the author of the book "Lipidomics: Comprehensive Mass Spectrometry of Lipids" and the co-author of the book "Lipid Analysis (4th Edition)" with Dr. William W. Christie, a Fellow of the Royal Society of Edinburgh. He is the associate editor of "Lipids" and the section editor of "Molecular and Cell Biology of Lipids" in Biochimica et Biophysica Acta. Dr. Han serves as a member of the Editorial Board of numerous international journals including J. Lipid Res., Chem. Phys. Lipids, and Anal. Biochem.

Prof. Han has broad research interests in lipid metabolism, trafficking, and homeostasis underlying disease states. The main current research areas in his laboratory include (1) extension of the shotgun lipidomics technology for increased penetrance into the low abundance regions of a cellular lipidome; (2) identification of the biochemical mechanisms responsible for the sulfatide depletion and ceramide elevation at the earliest stages of Alzheimer's disease; and (3) identifying the biochemical mechanisms underlying the altered content and composition of lipids in diabetic myocardium.