

INTERNATIONAL CEREBRO-CARDIOVASCULAR MEDICAL INNOVATION SCIENTIFIC FORUM

22 JAN 2025 (WED) 09:00 - 17:30
SENATE ROOM, CITY UNIVERSITY OF HONG KONG

09:00 - 09:30 COFFEE & REGISTRATION

OPENING CEREMONY

Welcome Speech by Forum Chair
Dr. Russell CHAN

Co-founder, E-SENSE Innovation & Technology
Senior Consultant, COCHE

09:30 - 09:40

Guest of Honor: Prof. Michael YANG

Yeung Kin Man Chair Professor of Biomedical Sciences
Senior Vice-President (Innovation and Enterprise), City University of Hong Kong
Director (Tung Biomedical Sciences Centre)
Director (Biotechnology & Health Centre)

Opening Remarks by COCHE Centre Director
Prof. Kannie W.Y. CHAN

Associate Dean, College of Engineering
Professor, Department of Biomedical Engineering, City University of Hong Kong

Group Photo

SESSION 1: ROLE OF IMAGING IN BRAIN HEALTH

Molecular Imaging using the Water Signal in MRI

Plenary Speaker:

09:40 - 10:20

Prof. Peter C.M. van Zijl

Professor, Department of Radiology, Johns Hopkins University School of Medicine,
Research Scientist, Kennedy Krieger Institute,
Founding Director, F.M. Kirby Research Center for Functional Brain Imaging

Ultra-low-field MRI: A computing-powered Future?

Keynote 1:

10:20 - 10:40

Prof. Ed X. WU

Chair of Biomedical Engineering
Lam Woo Professorship in Biomedical Engineering
Department of Electrical and Electronic Engineering
Faculty of Engineering, The University of Hong Kong

Cerebrovascular Reactivity (CVR) MRI as a Biomarker in Large-vessel and Small-vessel Diseases

10:40 - 11:00

Keynote 2:

Prof. Hanzhang LU

Elias A. Zerhouni, M.D. Professor,
Director of MRI Service Center,
Chief of NeuroFunction Section, Department of Radiology, Johns Hopkins University

Induction of Immune tolerance in Multiple Sclerosis and Neuromyelitis Optica Spectrum Disorders

11:00 - 11:20

Keynote 3:

Prof. Koon Ho CHAN

Chief of Neurology, Clinical Professor,
Department of Medicine,
The University of Hong Kong

11:20 - 11:35

Round Table Discussion:

Profs. Kannie W.Y. CHAN, Peter C.M. van Zijl, Ed X. Wu, Hanzhang LU, Koon Ho CHAN

11:35 - 12:45 LUNCH BREAK

SESSION 2: EMERGING TECHNOLOGY FOR DYNAMIC MEASUREMENT OF CVD HEALTH

Mapping BBB Water Exchange with Diffusion Weighted Arterial Spin Labeling

Plenary Speaker:

12:45 - 13:25

Prof. Danny WANG

Professor of Neurology and Radiology, and Biomedical Engineering
Director of Imaging Technology Innovation, Mark and Mary Stevens Neuroimaging and Informatics Institute, University of Southern California

D-glucose as a Contrast Agent for MRI

13:25 - 13:45

Keynote 4:

Prof. Linda Knutsson

Professor, F.M. Kirby Research Center for Functional Brain Imaging, Kennedy Krieger Institute, Johns Hopkins University
Professor, Medical Radiation Physics, Lund University, Sweden

Advanced MRI Techniques for Imaging CSF and Brain Lymphatics

13:45 - 14:05

Keynote 5:

Prof. Sung-Hong PARK

Professor, Department of Bio and Brain Engineering, Korea Advanced Institute of Science and Technology

Assessment of Parkinson's Disease using Ultrasound Imaging Empowered with Deep Learning

14:25 - 14:45

Keynote 6:

Prof. Yongping ZHENG

Henry G. Leong Professor in Biomedical Engineering,
Chair Professor of Biomedical Engineering,
Director of Research Institute for Smart Ageing and Director of Jockey Club Smart Ageing Hub, The Hong Kong Polytechnic University

14:45 - 15:00

Round Table Discussion:

Profs. Terence WONG, Danny WANG, Linda KNUTSSON, Sung-Hong PARK, Yongping ZHENG

15:00 - 15:10 COFFEE BREAK

SESSION 3: AI-ENABLED HEALTHCARE TECHNOLOGY

Dementia Management Based on Real World Data

Plenary Speaker:

15:10 - 15:50

Prof. Susumu MORI

Founder and CEO, Corporate-M, Japan
Professor, F. M. Kirby Research Center for Functional Brain Imaging, Kennedy Krieger Institute,
Department of Radiology, Johns Hopkins University School of Medicine

Deep Learning based Image Reconstruction and Enhancement in CerebroCardio-vascular Imaging

15:50 - 16:10

Keynote 7:

Dr. Nathan N.J. GONG

Founder and CEO, RadioDynamic Medical, China
Director, Laboratory for Intelligent Medical Imaging,
Tsinghua Cross-strait Research Institute, Tsinghua University

Innovations in Dementia Care: Challenges and Opportunities

16:10 - 16:30

Keynote 8:

Dr. Stanley K.F. TAM

President, The Hong Kong Geriatrics Society

Keynote 9:

16:30 - 16:50

Prof. Rosa H.M. CHAN

Professor, Department of Electrical Engineering, City University of Hong Kong
Co-PI and Senior Scientist, COCHE

Manipulation of Ultrafast Lasers based on Binary Holography

16:50 - 17:10

Keynote 10:

Prof. Shih-Chi CHEN

Professor, Department of Mechanical and Automation Engineering
Director, Multiscale Precision Instrumentation Laboratory (MPIIL), The Chinese University of Hong Kong

17:10 - 17:25

Round Table Discussion:

Profs. Dan WU, Susumu MORI, Rosa CHAN, Shih-Chi CHEN, Drs. Nathan GONG, Stanley TAM

CLOSING CEREMONY

Closing Remarks by Forum Co-Chair
Dr. Henry K.F. MAK

17:25 - 17:30

Clinical Associate Professor, Department of Diagnostic Radiology, The University of Hong Kong
MRI Medical Specialist and Senior Scientist, COCHE

Group Photo

17:30 - 19:00 VISIT COCHE (INVITE ONLY)

19:00 DINNER (INVITE ONLY)

Supporting Organizations:



Department of
Biomedical Engineering
City University of Hong Kong



香港中文大學
The Chinese University of Hong Kong



THE HONG KONG UNIVERSITY OF
SCIENCE AND TECHNOLOGY



NAMSI
Name and Address: Stanley Ho Centre for
Innovative Medicine

Hong Kong Polytechnic University

機電工程署
EMS D



HKAE
The Hong Kong Applied Science and
Technology Research Institute

BIOMEDICAL DIVISION
生物醫學分部



Hong Kong Applied Science and
Technology Research Institute

Free Registration:

