

Symposium Bioengineering in the 21st Century

August 20, 2015

Lecture Theater C, Chow Yei Ching Building The University of Hong Kong Pokfulam Road, Hong Kong

Organized by
Medical Engineering Programme
Faculty of Engineering
The University of Hong Kong



Medical Engineering Programme The University of Hong Kong

香 港 大 學

Symposium on Bioengineering in the 21st Century

August 20, 2015 Lecture Theater C, Chow Yei Ching Building, The University of Hong Kong

Symposium Programme

8:30 - 9:00	Registration
9:00 - 9:10	Welcome Address
7.00 7.10	Prof. Min Wang, The University of Hong Kong, Hong Kong
9:10 - 9:20	IAC Chairman's Address
	Prof. John Mok, Co-Chairman, AML Holdings Limited, Hong Kong
	Session 1 Session Chair: Prof. Min Wang
9:20 - 10:20	Keynote Lecture
	Bioengineering: Celebrating the Past, Envisioning the Future
	Prof. Robert M. Nerem, Georgia Institute of Technology, USA
10:20 - 10:50	Simulating the Cerebellum
	Dr. Chung Tin, City University of Hong Kong, Hong Kong
10:50 - 11:00	Coffee break
11:00 - 11:30	Stretching Light for Reaching Big-Data Biomedicine
	Dr. Kevin Tsia, The University of Hong Kong, Hong Kong
11:30 - 12:00	Image-guided and Robot-assisted Minimally Invasive Surgery
	Dr. Ka-Wai Kwok, The University of Hong Kong, Hong Kong
12:00 - 12:30	Orthopaedic Application of Silver Nanoparticles in Wound Healing
	Dr. Michael To, The University of Hong Kong, Hong Kong
12:30 - 14:00	Lunch break
	Session 2 Session Chair: Prof. Robert M. Nerem
14:00 - 14:45	Heart, Heart Rate, and Heart Rate Variability with Applications of Controlled
	Breaths
	Prof. Kang-Ping Lin, Chung Yuan Christian University, Taiwan
14:45 - 15:00	Making Human Body Tissues - Making the Miracle
	Miss Yu Zhou, The University of Hong Kong, Hong Kong
15:00 - 15:30	Understanding the Role of Cross-membrane Transport in the Mechanical and
	Biological Response of Live Cells
	Dr. Yuan Lin, The University of Hong Kong, Hong Kong
15:30 - 16:00	A Gold@polydopamine Core-shell Nanoprobe for Long-term Intracellular
	Detection of microRNAs in Differentiating Stem Cells
	Dr. C.H. Jonathan Choi, The Chinese University of Hong Kong, Hong Kong
16:00 - 16:10	Coffee break
16:10 - 16:40	Nanopore and Nanoparticle Based Optical Biosensor for Biomolecule Detection
	Dr. Mo Yang, Hong Kong Polytechnic University, Hong Kong
16:40 - 17:10	Ultrasound Elasticity Imaging of Anisotropic Soft Tissues
15.10 (5.10	Dr. Wei-Ning Lee, The University of Hong Kong, Hong Kong
17:10 - 17:40	Development of Bioactive Protein Materials by Genetically Encoded Click
	Chemistry
17.40 17.50	Dr. Fei Sun, Hong Kong University of Science and Technology, Hong Kong
17:40 - 17:50	Closing Remarks
	Prof. Robert M. Nerem, Georgia Institute of Technology, USA

Registration Desk: Outside symposium venue, at 8:30 - 9:00 a.m., August 20, 2015