

The 2nd CMU-UT Joint Symposium

Date: Thursday, September 12, 2019

Venue: Conference Hall, Cancer Center Building, China Medical University Hospital

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| 9:30~11:30 | Visit to China Medical University Hospital (1) 9:30~10:30 Chinese Medicine Hospital (Meide Medical Building) (2) 10:30~11:30 Smart Wards (Critical Care Center Building) |
| 11:30~13:00 | Lunch |
| 13:00~13:20 | Welcome Remarks and Group Photo President Mien-Chie Hung, <i>China Medical University</i> Superintendent Der-Yang Chou, <i>China Medical University Hospital</i> Professor Ung-il Chung, <i>The University of Tokyo</i> |
| 13:20~15:45 | Session 1 Moderator: Professor Liang-Yo Yang (<i>Dean, Office of Global Affairs, China Medical University</i>) (1) 13:20~13:45 Clinical Application of Next Generation Sequencing for Precision Medicine Professor Jan-Gowth Chang (<i>Vice Superintendent, China Medical University Hospital</i>) (2) 13:45~14:10 Supercomputing for Genomic Big Data Analysis Professor Seiya Imoto (<i>Director, Health Intelligence Center, Institute of Medical Science, The University of Tokyo</i>) (3) 14:10~14:35 How to Build a Smart Data Flow System for Medical Intelligent Application: CMUH Experience Dr. Chin-Chi Kuo (<i>Deputy Director, Big Data Center, China Medical University Hospital</i>) (4) 14:35~15:00 Leveraging Data Science to Identify Health Trajectories from a Smart Device App Dr. Masahiro Nakamura (<i>Project Assistant Professor, Graduate School of Engineering, The University of Tokyo</i>) (5) 15:00~15:25 Artificial Intelligence-Based Radiotherapy: Around the Corner? Dr. Ti-Hao Wang (<i>Attending Physician, Radiation Oncology, China</i> |

Medical University Hospital)

(6) 15:25~15:45

The Correlation Between Pulse Diagnosis and Constitution Identification in Traditional Chinese Medicine

Dr. Han-Kuei Wu (*Assistant Professor, School of Post-Baccalaureate Chinese Medicine - Internal Medicine, China Medical University*)

15:45~16:05 Tea Break

16:05~17:45 **Session 2**

Moderator: Professor Liang-Yo Yang (*Dean, Office of Global Affairs, China Medical University*)

(1) 16:05~16:30

Self-Managing Healthy Society: Activities of Center of Innovation

Dr. Ung-il Chung/Yuichi Tei (*Professor, Graduate School of Engineering and Medicine, The University of Tokyo; Dean, School of Health Innovation, Kanagawa University of Human Services*)

(2) 16:30~16:55

Current Status and Issues of Voice Biomarkers

Dr. Shinichi Tokuno (*Professor, School of Health Innovation, Kanagawa University of Human Services; Project Researcher, Graduate School of Engineering, The University of Tokyo*)

(3) 16:55~17:20

Recent Strategies in 3D Cell Printing toward Organ and Tissue Biofabrication in 3DPMRC

Dr. Ming-You Shie (*Associate Research Fellow, 3D Printing Medical Research Center, China Medical University Hospital*)

(4) 17:20~17:45

Predicting the Serum Digoxin Concentrations of Infants in the Neonatal Intensive Care Unit through an Artificial Neural Network

Dr. Hsiang-Wen Lin (*Associate Professor, School of Pharmacy, China Medical University*)

17:45~18:00 Discussion on Future Collaboration

18:00~20:00 Dinner