

106 年度國家衛生研究院生物醫學學術研討會  
2017 Biomedical Research Symposium of National Health Research Institutes

**August 14, 2017 (Monday)**

09:30 – 10:00      **Registration**

10:00                **Opening Remarks (Venue: Auditorium)**

*Dr. Hsin-Su Yu* 余幸司代理院長  
National Health Research Institutes, Taiwan  
國家衛生研究院

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**Plenary Lecture (Venue: Auditorium)**

Chairperson        *Dr. Yung-Chi Cheng* 鄭永齊院士  
Department of Pharmacology, Yale University, U.S.A.

10:10 – 11:00      **Regulation of Breast Cancer Progression and Metastasis by Tumor Microenvironment**

*Dr. Lu-Hai Wang* 王陸海院士  
Vice President, China Medical University, Taiwan  
中國醫藥大學

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11:00 – 12:00      Poster Session I – odd numbers

12:00 – 13:00      Lunch

**Symposium Session I (Venue: two Locations)**

**Symposium Session I (A): Molecular Genetics and Medicine (Venue: Auditorium)**

Chairpersons        *Dr. J.-H. James Ou* 歐競雄院士  
Department of Molecular Microbiology and Immunology, University of Southern California, Los Angeles, California, U.S.A.

*Dr. Jyh-Lyh Juang* 莊志立研究員  
Institute of Molecular and Genomic Medicine, National Health Research Institutes, Taiwan  
國家衛生研究院分子與基因醫學研究所

13:00 – 13:30      **Multiple Functions of Arl1 Small GTPase at the Golgi Complex**

*Dr. Fang-Jen Lee* 李芳仁特聘教授  
Institute of Molecular Medicine, College of Medicine, National Taiwan University, Taiwan  
國立臺灣大學醫學院分子醫學研究所

13:30 – 14:00      **CK1 $\alpha$  Ablation in Keratinocytes Induces p53-dependent, Sunburn-protective, Skin Hyperpigmentation**

*Dr. Chung-Hsing Chang* 張中興教授  
School of Medicine, College of Medicine, China Medical University, Taiwan  
中國醫藥大學醫學院醫學系

- 14:00 – 14:30      **Investigating Genome Wide DNA Methylation**  
*Dr. Pao-Yang Chen* 陳柏仰助研究員  
 Institute of Plant and Microbial Biology, Academia Sinica, Taiwan  
 中央研究院植物暨微生物學研究所
- 14:30 – 15:00      **The Role of 14-3-3 Proteins in Regulating Tumor Progression of Hepatocellular Carcinoma**  
*Dr. Jun-Yang Liou* 劉俊揚副研究員  
 Institute of Cellular and System Medicine, National Health Research Institutes, Taiwan  
 國家衛生研究院細胞及系統醫學研究所

**Symposium Session I (B): Neural Science (Venue: Conference Room 3)**

- Chairpersons      *Dr. Ing-Kang Ho* 何英剛院士  
 Academia Sinica, Taiwan  
 中央研究院
- Dr. Yu-Li Liu* 劉玉麗副研究員  
 Center for Neuropsychiatric Research, National Health Research Institutes, Taiwan  
 國家衛生研究院神經及精神醫學研究中心
- 13:00 – 13:30      **Back to the Basics: The G Protein Cycle**  
*Dr. Yung Hou Wong* 王殷厚教授  
 Division of Life Science, Biotechnology Research Institute, The Hong Kong University of Science and Technology, Hong Kong
- 13:30 – 14:00      **Molecular Link between Language and Autism Genes in Early Synaptic Wiring of Corticostriatal Circuits**  
*Dr. Fu-Chin Liu* 劉福清教授  
 Institute of Neuroscience, School of Life Sciences, National Yang-Ming University, Taiwan  
 國立陽明大學生命科學院神經科學研究所
- 14:00 – 14:30      **Orchestrating Embryonic Stem Cell Signaling-Based Therapeutic Platform for Diabetic Nephropathy: New Prospective From Chiayi**  
*Dr. Chun-Liang Lin* 林俊良主治醫師  
 Department of Nephrology, Chiayi Chang Gung Memorial Hospital, Chang Gung Medical Foundation, Taiwan  
 長庚醫療財團法人嘉義長庚紀念醫院內科部腎臟科
- 14:30 – 15:00      **Potential Therapeutic Effects of Betaine on Mental Disorders**  
*Dr. Hwei-Hsien Chen* 陳慧誠研究員  
 Center for Neuropsychiatric Research, National Health Research Institutes, Taiwan  
 國家衛生研究院神經及精神醫學研究中心

**Poster Discussion : Group D - Medical Engineering (Venue: Conference Room 4)**

- 13:00 – 15:00      Chairperson  
*Dr. Savio L-Y. Woo* 胡流源院士  
 Department of Bioengineering, University of Pittsburgh, Center for Bioengineering, U.S.A.
- 15:00 – 15:30      Coffee Break

## **Symposium Session II (Venue: two Locations)**

### **Symposium Session II (A): Biomedical Science (Venue: Auditorium)**

- Chairpersons      *Dr. Edward T. H. Yeh* 葉篤行院士  
Department of Internal Medicine, University of Missouri, School of Medicine, U.S.A.
- Dr. Tse-Hua Tan* 譚澤華特聘研究員  
Immunology Research Center, National Health Research Institutes, Taiwan  
國家衛生研究院免疫醫學研究中心
- 15:30 – 16:00      **The Mechanism of Resistance to EGFR Tyrosine Kinase Inhibitors**  
*Dr. Jin-Yuan Shih* 施金元教授  
Department of Internal Medicine, National Taiwan University Hospital, Taiwan  
國立臺灣大學醫學院附設醫院內科
- 16:00 – 16:30      **Electrical Remodeling in a CKD Model with Diastolic Dysfunction**  
*Dr. Kuan-Cheng Chang* 張坤正副教授  
College of Medicine, China Medical University, Taiwan  
中國醫藥大學醫學院醫學系內科學科
- 16:30 – 17:00      **Anti-Interferon- $\gamma$  Autoantibodies: An Under-estimated Disease in Both Scientific and Clinical View**  
*Dr. Cheng-Lung Ku* 顧正崙助理教授  
Graduate Institute of Clinical Medical Sciences, College of Medicine, Chang Gung University, Taiwan  
長庚大學醫學院臨床醫學研究所
- 17:00 – 17:30      **KDM4C: A Novel Oncogene for Prostate Cancer**  
*Dr. Chih-Pin Chuu* 褚志斌副研究員  
Institute of Cellular and System Medicine, National Health Research Institutes, Taiwan  
國家衛生研究院細胞及系統醫學研究所

### **Symposium Session II (B): Population Health Research (Venue: Conference Room 3)**

- Chairpersons      *Dr. Tun-Hou Lee* 李敦厚教授  
Department of Immunology and Infectious Diseases, Harvard TH Chan School of Public Health, U.S.A.
- Dr. Chao Agnes Hsiung* 熊昭特聘研究員  
Institute of Population Health Sciences, National Health Research Institutes, Taiwan  
國家衛生研究院群體健康科學研究所
- 15:30 – 16:00      **Imaging Biomarkers of Knee Osteoarthritis**  
*Dr. C. Kent Kwok* 郭堅教授  
Division of Rheumatology and Clinical Immunology, University of Arizona Arthritis Center, U.S.A.
- 16:00 – 16:30      **Care Models for Older Persons with Hip Fracture: Randomized Clinical Trials**  
*Dr. Yea-Ing Lotus Shyu* 徐亞瑛教授  
Graduate Institute of Nursing, College of Medicine, Chang Gung University, Taiwan  
長庚大學醫學院護理學系

- 16:30 – 17:00      **Clinical and Translational Studies to Improve the Detection and Treatment of Esophageal Cancer**  
*Dr. I-Chen Wu* 吳宜珍主治醫師  
Department of Gastroenterology, Kaohsiung Medical University Chung-Ho Memorial Hospital, Taiwan  
高雄醫學大學附設中和紀念醫院胃腸內科
- 17:00 – 17:30      **Promotion of Advanced Care Planning Through Establishing Sound Philosophical Thought And A Solid Information System**  
*Dr. Likwang Chen* 陳麗光副研究員  
Institute of Population Health Sciences, National Health Research Institutes, Taiwan  
國家衛生研究院群體健康科學研究所
- 18:00 –              Welcome Dinner

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*August 15, 2017 (Tuesday)*

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**Plenary Lecture (Venue: Auditorium)**

Chairperson *Dr. Savio L-Y. Woo* 胡流源院士  
Department of Bioengineering, University of Pittsburgh, Center for Bioengineering,  
U.S.A.

09:00 – 09:50 **Microfluidic Intervention of the Circulatory System**  
*Dr. Abraham Phillip Lee* 李伯晃教授  
Department of Biomedical Engineering, University of California, Irvine, U.S.A.

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**Symposium Session III (Venue: two Locations)**

**Symposium Session III (A): Cancer Research (Venue: Auditorium)**

Chairpersons *Dr. Tso-Pang Yao* 姚佐邦教授  
Department of Pharmacology and Cancer Biology, Duke University School of  
Medicine, U.S.A.

*Dr. Wen-Chun Hung* 洪文俊研究員  
National Institute of Cancer Research, National Health Research Institutes, Taiwan  
國家衛生研究院癌症研究所

10:00 – 10:30 **Eps8 Mediates Cancer Progression**  
*Dr. Tzeng-Horng Leu* 呂增宏教授  
Department of Pharmacology, College of Medicine, National Cheng Kung University,  
Taiwan  
國立成功大學醫學院藥理學科暨研究所

10:30 – 11:00 **Epigenetics in Gynecological Cancers: Biomarker Development and Mechanistic Insight**  
*Dr. Hung-Cheng Lai* 賴鴻政教授  
School of Medicine, College of Medicine, Taipei Medical University, Taiwan  
臺北醫學大學醫學院醫學系婦產學科

11:00 – 11:30 **The Discovery of a First-In-Class SHP-1 Agonist for the Treatment of Cancer**  
*Dr. Kuen-Feng Chen* 陳昆鋒主治醫師  
Medical Research, College of Medicine, National Taiwan University, Taiwan  
國立臺灣大學醫學院醫學研究部

11:30 – 12:00 **Trinity in Pancreatic Cancer: Promotion of Cancer Progression by Third Genetic Hit**  
*Dr. Wen-Chun Hung* 洪文俊研究員  
National Institute of Cancer Research, National Health Research Institutes, Taiwan  
國家衛生研究院癌症研究所

### **Symposium Session III (B): Medical Engineering (Venue: Conference Room 3)**

Chairpersons	<p><b>Dr. K. Kirk Shung</b> 熊克平教授 Department of Biomedical Engineering, University of Southern California, U.S.A.</p> <p><b>Dr. Leu-Wei Lo</b> 羅履維研究員 Institute of Biomedical Engineering and Nanomedicine, National Health Research Institutes, Taiwan 國家衛生研究院生醫工程與奈米醫學研究所</p>
10:00 – 10:30	<p><b>Harmonics-based <i>in vivo</i> Optical Virtual Biopsy</b></p> <p><b>Dr. Chi-Kuang Sun</b> 孫啟光特聘教授 Graduate Institute of Photonics and Optoelectronics, College of Electrical Engineering and Computer Science, National Taiwan University, Taiwan 國立臺灣大學電機資訊學院光電工程學研究所</p>
10:30 – 11:00	<p><b>Screening of Affinity Reagents On Integrated Microfluidic Systems and Their Applications for Fast Diagnosis</b></p> <p><b>Dr. Gwo-Bin Lee</b> 李國賓講座教授 Department of Power Mechanical Engineering, College of Engineering, National Tsing Hua University, Taiwan 國立清華大學工學院動力機械工程學系</p>
11:00 – 11:30	<p><b>Non-invasive Way to Transport Polymeric Nanoparticles to Targeted Tissue for Specific Drug Delivery</b></p> <p><b>Dr. Ching-Li Tseng</b> 曾靖嫻助理教授 Graduate Institute of Biomedical Materials and Tissue Engineering, College of Biomedical Engineering, Taipei Medical University, Taiwan 臺北醫學大學醫學工程學院生醫材料暨組織工程研究所</p>
11:30 – 12:00	<p><b>3D Cell Spheroids Culture Using a Microfluidic Hanging Droplet Chip</b></p> <p><b>Dr. Chia-Hsien Hsu</b> 許佳賢副研究員 Institute of Biomedical Engineering and Nanomedicine, National Health Research Institutes, Taiwan 國家衛生研究院生醫工程與奈米醫學研究所</p>
12:00 – 13:00	Lunch
13:00 – 14:00	Poster Session II – even numbers

### **Poster Discussion : (Venue: five Locations )**

14:00 – 16:30	<p>Chairpersons</p> <p>Group A - Biomedical Science (Venue: Conference Room 2) <b>Dr. Edward T. H. Yeh</b> 葉篤行院士 Department of Internal Medicine, University of Missouri, School of Medicine, U.S.A.</p> <p>Group B - Neuroscience (Venue: Conference Room 1) <b>Dr. Horace H. Loh</b> 羅浩院士 Department of Pharmacology, University of Minnesota, U.S.A.</p> <p>Group C - Cancer Research (Venue: Conference Room 3) <b>Dr. Tso-Pang Yao</b> 姚佐邦教授 Department of Pharmacology and Cancer Biology, Duke University School of Medicine, U.S.A.</p>
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Group D - Medical Engineering (Venue: Conference Room 4)

***Dr. Savio L-Y. Woo*** 胡流源院士

Department of Bioengineering, University of Pittsburgh, Center for Bioengineering,  
U.S.A.

Group E - Population Health Research (Venue: Conference Room 6)

***Dr. Tun-Hou Lee*** 李敦厚教授

Department of Immunology and Infectious Diseases, Harvard School of Public  
Health, U.S.A.

16:40

Adjourn