

107 年度國家衛生研究院生物醫學學術研討會  
2018 Biomedical Research Symposium of National Health Research Institutes

**August 15, 2018 (Wednesday)**

09:30 – 10:00      **Registration**

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

**Dr. Kung-Yee Liang** 梁賡義院長  
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      **Next Generation Challenges of Hepatitis B: From Novel Virology and Immunology to Virus Cure**

**Dr. Pei-Jer Chen** 陳培哲院士  
Graduate Institute of Clinical Medicine, College of Medicine, National Taiwan University, Taiwan  
國立臺灣大學醫學院臨床醫學研究所

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

12:00 – 13:00      Lunch

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**Symposium Session I (Venue: 2 Conference Rooms)**

**Symposium Session I (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

13:00 – 13:30      **From Vascular Stiffening to Adipose Stiffening in Obesity**

**Dr. Yau-Sheng Tsai** 蔡曜聲教授  
Institute of Clinical Medicine, College of Medicine, National Cheng Kung University, Taiwan  
國立成功大學醫學院臨床醫學研究所

13:30 – 14:00      **Identification of Key Factors Regulating Stem Cell Renewal and Differentiation by High Throughput Screens**

**Dr. Jean Lu** 呂仁副研究員  
Genomics Research Center, Academia Sinica, Taiwan  
中央研究院基因體研究中心

14:00 – 14:30      **Mucosal Viral-vector Vaccines in Study and Prevention of Enterovirus and Respiratory Syncytia Virus Infection**

**Dr. Yen-Hung Chow** 周彥宏副研究員

National Institute of Infectious Diseases and Vaccinology, National Health Research Institutes, Taiwan

國家衛生研究院感染症與疫苗研究所

14:30 – 15:00 **15-keto-Prostaglandin E2 Metabolism and Its Biological Functions**

*Dr. Lee-Ming Chuang* 莊立民教授

School of Medicine, College of Medicine, National Taiwan University, Taiwan

國立臺灣大學醫學院醫學系內科

**Symposium Session I (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. Chin-Fu Hsiao* 蕭金福研究員  
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
- 13:00 – 13:30 **An Interactive Advance Care Planning Intervention to Facilitate A Good Death for Cancer Patients**
- Dr. Siew-Tzuh Tang* 唐秀治教授  
School of Nursing, College of Medicine, Chang Gung University, Taiwan  
長庚大學醫學院護理學系
- 13:30 – 14:00 **Environmental Pollution and Cardiovascular Health**
- Dr. Ta-Chen Su* 蘇大成教授  
School of Medicine, College of Medicine, National Taiwan University, Taiwan  
國立臺灣大學醫學院醫學系內科
- 14:00 – 14:30 **Evidence-Based Approaches in Management of Chronic Kidney Disease and Prevention of End Stage Renal Disease**
- Dr. Hon-Yen Wu* 吳泓彥主治醫師  
Division of Nephrology, Department of Internal Medicine, Far Eastern Memorial Hospital, Taiwan  
亞東紀念醫院內科部腎臟內科
- 14:30 – 15:00 **Bioinformatic Explorations of Molecular Properties Capable of Unravelling the Functional Landscape of Our Genomes**
- Dr. Ben-Yang Liao* 廖本揚研究員  
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

**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.
- Dr. Zong-Ming Li* 李宗明教授  
Department of Biomedical Engineering, Lerner Research Institute, Cleveland Clinic U.S.A.
- 15:00 – 15:30 Coffee Break

## **Symposium Session II (Venue: 2 Conference Rooms)**

### **Symposium Session II (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
- 15:30 – 16:00      **New Insights for Oncogenic Akt Signaling Activation and Tumorigenesis**  
*Dr. Hui-Kuan Lin* 林慧觀教授  
Department of Cancer Biology, Wake Forest Baptist Medical Center, Wake Forest University, U.S.A.
- 16:00 – 16:30      **How Cancer Cells Take a Break by Breaking a Break**  
*Dr. Shaw-Jenq Sean Tsai* 蔡少正特聘教授  
Department of Physiology, College of Medicine, National Cheng Kung University, Taiwan  
國立成功大學醫學院生理學研究所
- 16:30 – 17:00      **Inflammatory Microenvironment and the Initiation of Clear-cell Renal Cell Carcinoma**  
*Dr. Tien Hsu* 徐涸教授  
Department of Biomedical Sciences & Engineering, College of Health Sciences & Technology, National Central University, Taiwan  
國立中央大學生醫理工學院生醫科學與工程學系
- 17:00 – 17:30      **Metabolic Risk Factors are Associated with Non-B Non-C Hepatocellular Carcinoma Patients in Taiwan**  
*Dr. Shiu-Feng Kathy Huang* 黃秀芬研究員級主治醫師  
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

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

- Chairpersons      *Dr. K. Kirk Shung* 熊克平教授  
Department of Biomedical Engineering, University of Southern California, U.S.A.
- Dr. Jia-Jin Chen* 陳家進特聘教授  
Institute of Biomedical Engineering, College of Engineering, National Cheng Kung University, Taiwan  
國立成功大學工學院醫學工程研究所
- 15:30 – 16:00      **Biomaterials Strategies to Modulate Sterile Inflammation**  
*Dr. Kam-Weng Leong* 梁錦榮院士  
Department of Biomedical Engineering, Columbia University, U.S.A.
- 16:00 – 16:30      **Hair Regeneration: Cues from External Environment and Roles of Ectopic Precursor Cells**  
*Dr. Sung-Jan Lin* 林頌然教授

Institute of Biomedical Engineering, College of Medicine and College of Engineering, National Taiwan University, Taiwan  
國立臺灣大學醫學院暨工學院醫學工程學研究所

16:30 – 17:00

**Quantification and Network Analysis of Magnetic Resonance Brain Images of Patients with Spinocerebellar Ataxia Type 3 (SCA3)**

*Dr. Yu-Te Wu* 吳育德教授

Institute of Biophotonics, School of Biomedical Science and Engineering, National Yang-Ming University, Taiwan  
國立陽明大學生物醫學暨工程學院生醫光電研究所

17:00 – 17:30

**Causing Corrosion, Providing an Anticancer Effect: Reversal of Tumor Hypoxia and Growth Using Chemotherapeutic Platinum Nano-catalysts**

*Dr. Shu-Yi Lin* 林淑宜研究員

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

18:00 –

Welcome Dinner

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*August 16, 2018 (Thursday)*

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**Plenary Lecture (Venue: Auditorium)**

- Chairperson *Dr. Huey-Kang Sytwu* 司徒惠康副院長  
National Health Research Institutes, Taiwan  
國家衛生研究院
- 09:00 – 09:50 **Antagonistic Regulation by Afferent-derived Factors to Ensure Appropriate Dendritic Field Sizes and Synaptic Partnership**  
*Dr. Chi-Hon Lee* 李奇鴻特聘研究員  
Institute of Cellular and Organismic Biology, Academia Sinica, Taiwan  
中央研究院細胞與個體生物學研究所

**Symposium Session III (Venue: 2 Conference Rooms)**

**Symposium Session III (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
- 10:00 – 10:30 **PKM2, A Target for Regulating Cancer Metabolism**  
*Dr. Wen-Ching Wang* 王雯靜特聘教授  
Institute of Molecular and Cellular Biology, College of Life Science, National Tsing Hua University, Taiwan  
國立清華大學生命科學院分子與細胞生物研究所
- 10:30 – 11:00 **Inhibition of the Androgen Receptor Induces an Aberrant SPDEF-dependent Transcription Rewiring for Prostate Cancer Metastasis**  
*Dr. Yen-Nien Liu* 劉晏年副教授  
The Ph.D. Program for Cancer Biology and Drug Discovery, College of Medical Science and Technology, Taipei Medical University, Taiwan  
臺北醫學大學醫學科技學院癌症生物學與藥物研發博士學位學程
- 11:00 – 11:30 **Obese, Adipose Tissue, and Triglyceride Metabolism – Is FTO a Genetic Connection**  
*Dr. Chao-Yung Wang* 王朝永助理教授  
School of Medicine, College of Medicine, Chang Gung University, Taiwan  
長庚大學醫學院醫學系
- 11:30 – 12:00 **Antibacterial Flavonoids from Medicinal Plants Covalently Inactivate Type III Protein Secretion Substrates**  
*Dr. Lun Kelvin Tsou* 鄒倫副研究員  
Institute of Biotechnology and Pharmaceutical Research, National Health Research Institutes, Taiwan  
國家衛生研究院生技與藥物研究所

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

- Chairpersons *Dr. Horace H. Loh* 羅浩院士  
Department of Pharmacology, University of Minnesota, U.S.A.  
*Dr. Yun Wang* 王昀特聘研究員  
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
- 10:00 – 10:30 **A Multifaceted Neuron Stress Modulator - RIP140**  
*Dr. Lina Wei* 魏麗娜教授  
Department of Pharmacology, University of Minnesota, U.S.A.
- 10:30 – 11:00 **Wnt and Mitochondria Therapy that Promote Regeneration of Brain Neurons**  
*Dr. Linyi Chen* 陳令儀教授  
Institute of Molecular Medicine, College of Life Science, National Tsinghua University, Taiwan  
國立清華大學生命科學院分子醫學研究所
- 11:00 – 11:30 **Dynamics of Brain Genome in Health and Disease**  
*Dr. Hsien-Sung Huang* 黃憲松助理教授  
Graduate Institute of Brain and Mind Sciences, College of Medicine, National Taiwan University, Taiwan  
國立臺灣大學醫學院腦與心智科學研究所
- 11:30 – 12:00 **Neurodegeneration Mechanism in Heroin Dependent Patients and More**  
*Dr. Yu-Li Liu* 劉玉麗研究員  
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
- 12:00 – 13:00 Lunch
- 13:00 – 14:00 Poster Session II – even numbers

### **Poster Discussion : (Venue: 5 Conference Rooms )**

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

*Dr. Zong-Ming Li* 李宗明教授

Department of Biomedical Engineering, Lerner Research Institute, Cleveland Clinic  
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 TH Chan School of  
Public Health, U.S.A.

16:40

Adjourn