

108 年度國家衛生研究院生物醫學學術研討會
2019 Biomedical Research Symposium of National Health Research Institutes

August 14, 2019 (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

Plenary Lecture (Venue: Auditorium)

Chairperson **Dr. Kenneth K. Wu** 伍焜玉院士
University of Texas at Houston Emeritus Professor, U.S.A.

10:10 – 11:00 **Stem Cells & Genomics for Precision Medicine**

Dr. Joseph C. Wu 吳慶明教授
Department of Medicine & Radiology, Stanford University School of Medicine,
U.S.A.

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

12:00 – 13:00 Lunch

Symposium Session I (Venue: 2 Conference Rooms)

Symposium Session I (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. 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 **Deciphering the Mechanism for Generation of Circulating Tumor Clusters**

Dr. Muh-Hwa Yang 楊慕華講座教授
Institute of Clinical Medicine, College of Medicine, National Yang-Ming University,
Taiwan
國立陽明大學醫學院臨床醫學研究所

13:30 – 14:00 **Tyrosine Phosphorylation of PCNA in Tumor Progression**

Dr. Shao-Chun Wang 王紹椿研究員
Center of Molecular Medicine, China Medical University & Hospital, Taiwan
中國醫藥大學附設醫院分子醫學中心

14:00 – 14:30 **Multifunctional Nanocarriers for Efficient Cancer Gene Therapy**

Dr. Yunching Chen 陳韻晶副教授
Institute of Biomedical Engineering, College of Engineering, National Tsing Hua
University, Taiwan
國立清華大學工學院生物醫學工程研究所

14:30 – 15:00 **Identification of Novel Anti-Liver Cancer Small Molecules via Zebrafish Drug Screening Platform and Discovering Oligo-Fucoidan Protects Hepatocytes against Carcinogen Insult via Activation of the ASGPR/STAT3/HNF4A Axis**
Dr. Chiou-Hwa Yuh 喻秋華研究員
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

Symposium Session I (B): Medical Engineering (Venue: Conference Room 3)

Chairpersons *Dr. Zong-Ming Li* 李宗明教授
Department of Biomedical Engineering, Lerner Research Institute, Cleveland Clinic, U.S.A.

Dr. Feng-Huei Lin 林峯輝特聘研究員
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

13:00 – 13:30 **Synergistic Optical and Acoustic Droplet Vaporization for Effective Sonoporation**
Dr. Pai-Chi Li 李百祺特聘教授
Graduate Institute of Biomedical Electronics and Bioinformatics, College of Electrical Engineering and Computer Science, National Taiwan University, Taiwan
國立臺灣大學電機資訊學院生醫電子與資訊學研究所

13:30 – 14:00 **Autologous Hinge as a Universal Antibody Lock Enhance the Selectivity and Safety of Antibody Drug**
Dr. Tian-Lu Cheng 鄭添祿特聘教授
Department of Biomedical Science and Environment Biology, College of Life Science, Kaohsiung Medical University, Taiwan
高雄醫學大學生命科學院生物醫學暨環境生物學系

14:00 – 14:30 **Development of Functional Biomaterials for Ocular Disease Treatment**
Dr. Jui-Yang Lai 賴瑞陽教授
Graduate Institute of Biomedical Engineering, College of Engineering, Chang Gung University, Taiwan
長庚大學工學院生物醫學工程研究所

14:30 – 15:00 **The Simpler The Better in Nano**
Dr. Leu-Wei Lo 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

15:00 – 15:30 Coffee Break

Symposium Session II (Venue: 2 Conference Rooms)

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

- Chairpersons *Dr. Vincent W. Yang* 楊文山教授
Department of Medicine, Department of Physiology & Biophysics, Renaissance School of Medicine at Stony Brook University, U.S.A.
Dr. Ko-Jiunn Liu 劉柯俊研究員
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 **Investigation of Laminin γ 2-enriched Extracellular Vesicles and Intracellular Free ISG15 in Lymphatic Metastasis of Oral Squamous Cell Carcinoma**
Dr. Ya-Wen Chen 陳雅雯副研究員
National Institute of Cancer Research, National Health Research Institutes, Taiwan
國家衛生研究院癌症研究所
- 16:00 – 16:30 **Regulation of B Cell Activation and Differentiation by Post-translational Modifications**
Dr. Kuo-I Lin 林國儀研究員
Genomics Research Center, Academia Sinica, Taiwan
中央研究院基因體研究中心
- 16:30 – 17:00 **Molecular Mechanism of HCV NS5A Protein Phosphorylation**
Dr. Ming-Jiun Yu 余明俊教授
Graduate Institute of Biochemistry and Molecular Biology, College of Medicine, National Taiwan University, Taiwan
國立臺灣大學醫學院生物化學暨分子生物學研究所
- 17:00 – 17:30 **Musashi-1 Interacted with AGO2 to Form a Complex to Resist Drug Resistance and Promote Cancer Progression**
Dr. Shih-Hwa Chiou 邱士華教授
Department & Institute of Pharmacology, College of Medicine, National Yang-Ming University, Taiwan
國立陽明大學醫學院藥理學研究所

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

- Chairpersons *Dr. Lina Wei* 魏麗娜教授
Department of Pharmacology, University of Minnesota, U.S.A.
Dr. Shaw-Fang Yet 林秀芳研究員
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
- 15:30 – 16:00 **Translational Research of Glioma, A Neuroradiologist's Perspective**
Dr. Cheng-Yu Chen 陳震宇教授
Department of Radiology, School of Medicine, College of Medicine, Taipei Medical University, Taiwan
臺北醫學大學醫學院醫學系放射線學科

- 16:00 – 16:30 **TDP-43 Aggregation and Therapeutic Development in Neurodegenerative Diseases**
Dr. Yun-Ru(Ruby) Chen 陳韻如副研究員
 Genomics Research Center, Academia Sinica, Taiwan
 中央研究院基因體研究中心
- 16:30 – 17:00 ***In vivo* Voltage Imaging Reveals Coordinated Membrane Potential Dynamics of Parvalbumin Positive Interneurons during Hippocampal Sharp Wave Ripples**
Dr. Tsai-Wen Chen 陳摘文助理教授
 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
- 17:00 – 17:30 **Human and Mouse IL12 along with Neural Stem Cells Enhance the Peripheral Nerve Injury Repair**
Dr. Ing-Ming Chiu 邱英明特聘研究員
 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

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

- 15:30 – 17:30 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.
- 18:00 – Welcome Dinner

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August 15, 2019 (Thursday)

Plenary Lecture (Venue: Auditorium)

Chairperson **Dr. Michael M.C. Lai** 賴明詔院士
Institute of Molecular Biology, Academia Sinica, Taiwan
中央研究院分子生物研究所

09:00 – 09:50 **Steroid Synthesis and its Regulation**

Dr. Bon-Chu Chung 鍾邦柱院士
Institute of Molecular Biology, Academia Sinica, Taiwan
中央研究院分子生物研究所

Symposium Session III (Venue: 2 Conference Rooms)

Symposium Session III (A): Biomedical Science (Venue: Auditorium)

Chairpersons **Dr. Ronglih Liao** 廖容儷教授
Department of Medicine, Stanford Cardiovascular Institute, Stanford University, 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

10:00 – 10:30 **Macrophages and Myofibroblasts in Peritoneal Fibrosis**

Dr. Shuei-Liong Lin 林水龍教授
Graduate Institute of Physiology, College of Medicine, National Taiwan University, Taiwan
國立臺灣大學醫學院生理學研究所

10:30 – 11:00 **Skin Microbiome as Innate Immunity**

Dr. Chun-Ming Huang 黃俊銘教授
Department of Biomedical Sciences & Engineering, College of Health Sciences & Technology, National Central University, Taiwan
國立中央大學醫理學院生醫科學與工程學系

11:00 – 11:30 **Coordinated Regulation of Cardiac Fibrosis by Long Noncoding RNA Lnc-Fibrogen and ER-Resident Protein TXNDC5**

Dr. Kai-Chien Yang 楊鎧鍵助理教授
Department and Graduate Institute of Pharmacology, College of Medicine, National Taiwan University, Taiwan
國立臺灣大學醫學院醫學系藥理學科

11:30 – 12:00 **MAP4K3/GLK-induced AhR-ROR γ t Complex is a Novel Therapeutic Target for GLK^{high}IL-17A^{high} Subpopulation of SLE Patients**

Dr. Huai-Chia Chuang 莊懷佳助研究員
Immunology Research Center, National Health Research Institutes, Taiwan
國家衛生研究院免疫醫學研究中心

Symposium Session III (B): Population Health Research (Venue: Conference Room 3)

- Chairpersons *Dr. Thomas T. H. Wan* 萬德和教授
Doctoral Program in Public Affairs, University of Central Florida, 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
- 10:00 – 10:30 **Neuroimage Studies in Attention-Deficit Hyperactivity Disorder: Endophenotype, Imagenomics, and Treatment Effect**
- Dr. Susan Shur-Fen Gau* 高淑芬教授
Department of Psychiatry, College of Medicine, National Taiwan University, Taiwan
國立臺灣大學醫學院精神科
- 10:30 – 11:00 **Integrated Care for Patients with Multiple Morbidity Conditions: Current Status, Challenge, and Perspective**
- Dr. Shang-Jyh Hwang* 黃尚志教授
Department of Renal Care, College of Medicine, Kaohsiung Medical University, Taiwan
高雄醫學大學醫學院腎臟照護學系
- 11:00 – 11:30 **Applications of Bioinformatics on Genomic Data from the Taiwanese Population**
- Dr. Eric Y. Chuang* 莊曜宇教授
Graduate Institute of Biomedical Electronics and Bioinformatics, College of Electrical Engineering and Computer Science, National Taiwan University, Taiwan
國立臺灣大學電機資訊學院生醫電子與資訊學研究所
- 11:30 – 12:00 **What will ICH E17 impact on MRCT?**
- 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
- 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.
- Dr. Reen Wu* 吳忍教授
Center for Comparative Respiratory Biology and Medicine, University of California at Davis, 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 School of Public Health, U.S.A.

16:40

Adjourn