

# **2021 NHRI Research Day**

**March 22, 2021 (Monday)**

## **Poster Presentations**

**venue: Conference Room 1, 2, 3, 4, 6, 7, B1 of Administrative Building**

09:00 – 09:30     **Registration**

09:30 – 12:00    優秀壁報論文評選 **Session I :**

Applied Medicine I (AM01~AM18) : Conference Room 4

Applied Medicine II (AM28 ~AM 45) : Conference Room 6

Basic Medicine I (BM01 ~BM18) : Conference Room 1

Basic Medicine II (BM37~BM54) : Conference Room 2

Clinical Research/ Public Health (CRPH01~CRPH18) : Conference Room 7

優秀研究助理評選 : **Conference Room 3 (#1~#20)**

12:00 – 13:00    **Lunch**

13:00 – 15:30    優秀壁報論文評選 **Session II :**

Applied Medicine I (AM19~AM27) : Conference Room 4

Applied Medicine II (AM46~AM55) : Conference Room 6

Basic Medicine I (BM19 ~BM36) : Conference Room 1

Basic Medicine II (BM55~BM72) : Conference Room 2

Clinical Research/ Public Health (CRPH19~CRPH23) : Conference Room 7

優秀研究助理評選 : **Conference Room 3 (#21~#39)**

15:30 – 15:45    **Break**

**March 23, 2021 (Tuesday)**

**venue: Conference Room 3, B1 of Administrative Building**

09:20 – 09:40    **Registration**

09:40 – 09:50    **Opening Remarks**

梁廣義院長 Dr. Kung-Yee Liang, President of NHRI

09:50 – 10:00    **Award Presentation: 2021 NHRI Research Achievement Awards**

**Outstanding Research Achievement Award**

Dr. Min-Shi Lee (李敏西研究員)

**Awardee for Junior Research Investigator**

Dr. Lun-De Liao (廖倫德副研究員)

Dr. Hua-Jung Li (李華容副研究員)

### **Speeches Given by Awardees**

Chairperson: 蔡世峯處長 Dr. Shih-Feng Tsai, Director of Department of Research Planning and Development

- 10:00 – 10:40     **Vaccine Development in NHRI: How Far Can We Go?**  
李敏西研究員 Dr. Min-Shi Lee, National Institute of Infectious Diseases and Vaccinology
- 10:40 – 11:10     **Engineering New Imaging Tools for Neurovascular Function Assessment in Health and Disease Animals**  
廖倫德副研究員 Dr. Lun-De Liao, Institute of Biomedical Engineering and Nanomedicine
- 11:10 – 11:40     **A Journey In and Outside of Stem Cells**  
李華容副研究員 Dr. Hua-Jung Li, Institute of Cellular and System Medicine

### **Oral Presentations** (每人 10 min 報告+3 min 討論)

Chairperson: 蔡世峯處長 Dr. Shih-Feng Tsai, Director of Department of Research Planning and Development

- 12:30 – 12:43     **A Bayesian Tool for Detecting Disease Genes and Expression Quantitative Trait Loci—A Simulation Study**  
(110OP01)  
陳孜圩 Tzu-Yu Chen, Institute of Population Health Sciences
- 12:43 – 12:56     **Development of a Novel Oncolytic HSV-1 for Cancer Immunotherapy**  
(110OP02)  
陳熾如 Yen-Ju Chen, National Institute of Cancer Research
- 12:56 – 13:09     **Spatiotemporal Characterization of Ischemic Lesion in Experimental Stroke Using Diffusion Free-water Elimination and Mapping MRI with Echo Time Dependence**  
(110OP03)  
江嘉雯 Chia-Wen Chiang, Institute of Biomedical Engineering and Nanomedicine
- 13:09 – 13:22     **Targeting Prooxidant MnSOD Obviates Triple-negative Breast Cancer (TNBC) Progression and the Immunosuppressive Microenvironment via Suppression of Mitochondrial ROS**  
(110OP04)  
歐書亞 Aushia Tanzih Al Haq, Institute of Molecular and Genomic Medicine
- 13:22 – 13:35     **TCR on the naïve CD8<sup>+</sup> T cells with Higher Sensitivity to Self Peptide-MHC Strength Reflects Higher Type I Diabetes Severity in NOD Mice**  
(110OP05)  
何佳珞 Chia-Lo Ho, National Institute of Infectious Diseases and Vaccinology
- 13:35 – 13:48     **Modulation of NMDA Receptor Glycine Binding Site Prevents Toluene-induced Impairments in Recognition Memory and Synaptic Plasticity in Mice**  
(110OP06)  
謝崇斌 Chung-Pin Hsieh, Center for Neuropsychiatric Research

- 13:48 – 14:01  
(110OP07) **Finite Element Formulation in Conservative Form for Surfactant-Governed Interfacial Flows: Energy Balance and Space Conservation Law**  
伊菲利 Filip Ivancic, Institute of Biomedical Engineering and Nanomedicine
- 14:01 – 14:15 **Break**
- 14:15 – 14:28  
(110OP08) **Development of a Robust Scale-up Synthetic Route for BPR1K871: A Clinical Candidate for the Treatment of Acute Myeloid Leukemia and Solid Tumors**  
薩德雷 Julakanti Satyanarayana Reddy, Institute of Biotechnology and Pharmaceutical Research
- 14:28 – 14:41  
(110OP09) **A Novel VEGF Fusion Protein Overcomes Bevacizumab Resistance and Enhances Immunotherapy via Vessel Normalization and Reprogramming Immunosuppressive Tumor Microenvironment**  
郭政良 Cheng-Liang Kuo, National Institute of Cancer Research
- 14:41 – 14:54  
(110OP10) **Resident vs. Non-resident Multipotent Mesenchymal Stromal Cell Interactions with B Lymphocytes Result in Disparate Outcomes**  
李瑋 Wei Lee, Institute of Cellular and System Medicine
- 14:54 – 15:07  
(110OP11) **Discovery of BPR1R024, an Orally and Highly Selective CSF1R Inhibitor Exhibiting Immunomodulatory Anti-tumor Efficacy**  
李昆鴻 Kun-Hung Lee, Institute of Biotechnology and Pharmaceutical Research
- 15:07– 15:20  
(110OP12) **E3 Ligase Mib1 and Deubiquitylase Zranb1 Control Zebrafish Convergent Extension**  
劉大瑋 Da-Wei Liu, Institute of Molecular and Genomic Medicine
- 15:20– 15:33  
(110OP13) **Patients with First Episode Psychosis in Northern Taiwan: Clinical Feature, Neurocognitive Performance, and Polygenic Loading**  
游舜淳 Shun-Chun Yu, Center for Neuropsychiatric Research
- 15:33 – 16:00 **Break/ Review Committee Meeting**
- 16:00 ~ **Award Presentation: 2021 Paper Award, Poster Award, NHRI Research Assistant Award**