



長庚大學
CHANG GUNG UNIVERSITY

生物醫學研究所

Graduate Institute of Biomedical Sciences

博士學位論文口試

Doctoral Oral Defence Seminar

Speaker：趙梓聰

博士候選人

Chi-Chong Chio

Ph.D. Candidate

Host：施信如 (Shin-Ru Shih) 特聘教授

Advisor：黃幸宜 (Hsing-I Huang) 教授

Title：

1. IL-1 β production triggered by EV-A71 in macrophages is mediated via recognition of vRNA by RIG-I, TLR3, and TLR8
2. EV-D68 vRNA triggers IFN- λ production by activating the MDA5 pathway

Time：2024/12/24 10:30

Venue：Conference Room 2, 11th Floor, The First Medical Science Building

※※※ 歡迎參加 Welcome ※※※

生物醫學研究所
Graduate Institute of
BioMedical Sciences

CURRICULUM VITAE

Name: 趙梓聰 (英文: Chi-Chong Chio)

Education:

Master

Chang Gung University

Department of Medical Biotechnology and Laboratory Science

Taoyuan, Taiwan

September 2015 – August 2017

Bachelor

Chang Gung University

Department of Medical Biotechnology and Laboratory Science

Taoyuan, Taiwan

September 2011 – August 2015

Publication:

1. **Chio CC**, Chan HW, Chen SH, Huang HI. Enterovirus D68 vRNA induces type III IFN production via MDA5. *Virus Res.* 2024 Jan 2;339:199284.
2. Huang HI, **Chio CC**, Lin JY, Chou CJ, Lin CC, Chen SH, Yu LS. EV-A71 induced IL-1 β production in THP-1 macrophages is dependent on NLRP3, RIG-I, and TLR3. *Sci Rep.* 2022 Dec 11;12(1):21425.
3. Huang HI, **Chio CC**, Lin JY. Inhibition of EV71 by curcumin in intestinal epithelial cells. *PLoS One.* 2018 Jan 25;13(1):e0191617.

Posters:

1. **Chio CC**, Huang HI. The Potential of Macrophage-derived Exosomes in Vaccine Development.
2. Chi-Chong Chio, Jhao-Yin Lin, Chia-Jung Chou, Hsing-I Huang. EV-A71 VRNA promotes inflammasome formation and IL-1 β production via activating RIG-I, TLR3, and TLR8.

Oral presentation:

1. IL-1 β production triggered by EV-A71 in macrophages is mediated via recognition of vRNA by RIG-I, TLR3, and TLR8

EV-D68 vRNA triggers IFN- λ production by activating the MDA5 pathway

Awards:

Poster Paper Merit Award

*December 2023
Taiwan society of microbiology*

Poster Paper Excellence Award

*October 2023
Taiwan society of virology and
vaccinology*

Academic Excellence Award

*May 2017
Chang Gung University*