Name WEN-CHI SU, PhD.

Current Positions Associate professor, International Master's Program of Biomedical Sciences, CMU
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Education

PhD, National Taiwan University, Taiwan

Professional Positions

Postdoctoral Fellow, Academia Sinica, Taiwan
Visiting Scientist, Broad Institute of MIT and Harvard, USA
Associate Researcher, China Medical University Hospital
Associate professor, China Medical University

Research Interests

Virus (SARS-CoV-2/Influenza virus/Zika virus)-host interactions
Molecular virology
Post-translational modifications
High-throughput RNAi screening

Selected Grants:

1. To investigate the important role of Two- pore channel 1 protein in influenza A virus replication (MOST 109-2320-B-039-050; 08/01/2020~ 07/31/2021)
2. Investigation of novel host proteases crucial for SARS-CoV-2 entry (MOST 110-2320-B-039-057; 08/01/2021 ～ 07/31/2022)

Selected Publications (the corresponding author is marked by *)

1. Melano I, Kuo LL, Lo YC, Sung PW, Tien N, **Su W.C.***. Effects of Basic Amino Acids and Their Derivatives on SARS-CoV-2 and Influenza-A Virus Infection. *Viruses*. 2021 Jul 4;13(7):1301. doi: 10.3390/v13071301 **(IF=5.048)**
2. Nambala P, Yu W.Y., Lo Y.C., Lin C.W., **Su W.C.***. Ubiquitination of Zika virus precursor membrane protein promotes the release of viral proteins. *Virus Res.* 2020 Sep;286:198065. doi: 10.1016/ j.virusres.2020.198065 **(IF=3.303)**
3. Liu Y.M., Tseng C.H., Chen Y.C., Yu W.Y., Ho M.Y., Ho C.Y., Lai M.M.C., **Su W.C.*** (2019). Exosome-delivered and Y RNA-derived small RNA suppresses influenza virus replication. *Journal of Biomedical Science*. 26(1):58. doi: 10.1186/s12929-019-0553-6. **(IF=8.41)**
4. **Su W.C.**, Yu W.Y., Huang S.H., Lai M.M.C*. (2018). Ubiquitination of the Cytoplasmic Domain of Influenza A Virus M2 Protein is Crucial for Production of Infectious Virus Particles. *Journal of Virology*, 92 (4).pii:e01972-17 **(IF=5.103)**
5. **Su W.C.**, Hsu S.F., Lee Y.Y., Jeng K.S., Lai M.M.* (2015). A Nucleolar Protein, Ribosomal RNA Processing 1 Homolog B (RRP1B), Enhances the Recruitment of Cellular mRNA in Influenza Virus Transcription.. *Journal of Virology*. 89:11245-55 **(IF=5.103)**
6. **Su W.C.**, Chen Y.C., Tseng C.H., Hsu P.W., Tung K.F., Jeng K.S., Lai M.M.* (2013) Pooled RNAi screen identifies ubiquitin ligase Itch as crucial for influenza A virus release from the endosome during virus entry. *Proc Natl Acad Sci U S A. 110:17516-21.* **(IF=11.205)**