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Current Positions Assistant Professor
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Education

2017-present Graduate Institute of Biomedical Sciences, China Medical University (Assistant Professor)
2014-2017 Research Center for Tumor Medical Science, China Medical University (Assistant Research Fellow)
2012-2014 Cambridge Institute for Medical Research, University of Cambridge (Research Associate)
2009-2012 Department of Medical Laboratory Science and Biotechnology, National Cheng Kung University (Postdoctoral Fellow)
2003-2009 Ph. D., Institute of Molecular Medicine, National Tsing Hua University
2001-2003 M. S., Department of Biological Science and Technology, National Chiao Tung University

Awards

- Professor Sung Juei-Low's Academic Prize for Excellent Research (2020)
- Project for Excellent Junior Research Investigators, National Science Council (2020 – 2023).
- Project for Excellent Junior Research Investigators, National Science Council (2016 – 2019).
- The Prize of Excellent Poster Contest held by the Cambridge Institute for Medical Research (2014).
- Postdoctoral Research Abroad Program, National Science Council (2012).

Expertise

Immunology, microbiology, molecular biology, genomic and proteomic screening

Research Interests

Studying host-pathogen interactions using proteomic, functional genomic, and phenotypic screening approaches.

Selected Grants:

- MOST 109-2628-B-039-004, Role of oxidative stress sensor GPx7 in maintaining colon homeostasis (II), Project for Excellent Junior Research Investigators, National Science Council (2020-2023).
- MOST 105-2628-B-039 -003 -MY3, GPx8 and GPx7: a novel class of glutathione peroxidases in inflammasome signaling pathways and inflammatory diseases (II), Project for Excellent Junior Research Investigators, National Science Council (2016-2019).

Selected Publications

1. **Hsu JL***, Chou JW, Su FY, Lan JL, Wu PC, Hu CM, Lee EY, and Lee WH*. Glutathione peroxidase 8 negatively regulates caspase-4/11 to protect against colitis. *EMBO molecular Medicine*. 2020. Jan 9;12(1):e9386. *Co-corresponding.
2. Chen TF, Hsiao CF, Hsu JT, Wu KC, Cheng YH, Liu YH, Lee DY, Chang HH, Cho DY, and **Hsu JL***. A systemic identification of anti-inflammatory active components derived from Mu Dan Pi and their applications in inflammatory bowel disease. *Scientific reports*. 2020. Oct 14; 10(1):17238.
3. **Hsu JL**, van den Boomen DJ, Tomasec P, Weekes MP, Antrobus R, Stanton RJ, Ruckova E, Sugrue D, Wilkie GS, Davison AJ, Wilkinson GW, Lehner PJ*. Plasma membrane profiling defines an expanded class of cell surface proteins selectively targeted for degradation by HCMV US2 in cooperation with UL141. *PLOS Pathogens*. 2015. Apr 14;11(4):e1004811.
4. **Hsu JL**, Chuang WJ, Su IJ, Gui WJ, Chang YY, Lee YP, Ai YL, Chuang DT, Huang W*. Zinc-Dependent Interaction between JAB1 and Pre-S2 Mutant Large Surface Antigen of Hepatitis B Virus and Its Implications for Viral Hepatocarcinogenesis. *J Virol*. 2013 Dec;87(23):12675-84.