



## Chiou, Shiow-Her

### Professor

**Research Interests** : Cytokines as vaccine adjuvants

**Courses Taught** : Microbiology, Molecular Biology

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### Educational Background

- University of Wisconsin-Madison, Biochemistry, PhD, 1992
- National Chung-Hsing University, Plant Pathology, BS, 1984

### Professional Career

- Professor, Chung-Hsing University, Grad Inst Microbiol Pub Health, 2009 Aug to Present
- Professor, Chung-Hsing University, Grad Inst Vet Microbiol, 2006 Aug to 2009 Jul
- Associate Professor, Chung-Hsing University, Grad Inst Vet Microbiol, 1994 Aug to 2006 Jul
- Scientist I, Research & Development, Genelabs Taiwan Corp., 1994 Jan to Jun
- Consultant, Research & Development, Genelabs Tech, USA, 1993 Jun to Dec
- Postdoctoral fellow, Dept Microbiol Immunol, UC San Francisco, USA, 1992 Dec to 1993 Dec

### Honors

- Outstanding student award, National Chung-Hsing University, 1983
- Government (Ministry of Education) scholarship for study abroad, 1989 to 1992

### Selected Publications

1. Lin CH, Shyu CL, Wu ZY, Wang CM, **Chiou SH\***, Chen JY, Tseng SY, Lin TE, Yuan YP, Ho SP, Tung KC, Mao FC, Lee HJ, Tu WC\*. 2023. Antimicrobial peptide mastoparan-AF kills multi- antibiotic resistant Escherichia coli O157:H7 via multiple membrane disruption patterns and likely by adopting 3-11 amphipathic helices to favor membrane interaction. *Membranes* 13: 251. (19 pages) (Impact factor 4.562, Ranking in Polymer Science 21/91 = 23%, SCI)
2. Joseph NA, **Chiou SH\***, Lung Z, Yang CL, Lin TY, Chang HW, Sun SH\*, Gupta SK, Yen L, Wang SD, Chow KC\*. 2018. The role of HGF-MET pathway and CCDC66 cirRNA expression in EGFR resistance and epithelial-to-mesenchymal transition of lung adenocarcinoma cells. *Journal of Hematology & Oncology* 11: 74. (Impact factor 28.5, Ranking in Hematology 1/79 = 1.26%, SCI, cited 61 times)

3. Hung YC, Chen TC, **Chiou SH\***, Chow KC\*, Lin TY, Chuang CS, Lin SH, Wu KH, Wang SD. 2018. Prenatal enterovirus 71 infection and its correlation with pediatric autistic patients – a possibility of non-genetic cause and the potential treatment target. *Neuropsychiatry* 8: 1940-1948.
4. Yang CL, **Chiou SH\***, Tai WC, Joseph NA, Chow KC\*. 2017. Trivalent chromium induces autophagy by activating sphingomyelin phosphodiesterase 2 and increasing cellular ceramide levels in renal HK2 cells. *Molecular Carcinogenesis* 56: 2424-2433. (Impact factor 3.4, Ranking in Biochemistry & Molecular Biology 38%, SCI)
5. Fan YH, Lin YL, Hwang YC, Yang HC, Chiu HC, **Chiou SH\***, Jong MH, Chow KC, Lin CC. 2016. T-cell factor-4 and MHC upregulation in pigs receiving a live attenuated classical swine fever virus (CSFV) vaccine strain with interferon-gamma adjuvant. *Veterinary Journal* 216: 148-156. (Ranking in Veterinary Sciences 25%, SCI)
6. Chen YC, Chi LM, Chow KC, **Chiou SH\***, Fan YH, Ho SP, Hsu YC, Hwang YC, Wu MX, Lee WM, Lin SL, Tsang CL, Mao FC. 2016. Association of anticardiolipin, antiphosphatidylserine, anti- $\beta$ 2 glycoprotein I, and antiphosphatidylcholine autoantibodies with canine immune thrombocytopenia. *BMC Veterinary Research* 12: 106. (Ranking in Veterinary Sciences 15%, SCI)
7. Huang CY, Chiang SF, Lin TY, **Chiou SH\***, Chow KC\*. 2012. HIV-1 Vpr triggers mitochondrial destruction by impairing Mfn2-mediated ER-mitochondria interaction. *PLoS ONE* 7:e33657. (SCI, cited 90 times)
8. Chiang SF, Huang CY, Lin TY, **Chiou SH\***, Chow KC\*. 2012. An alternative import pathway of AIF to the mitochondria. *International Journal of Molecular Medicine* 29:365-372. (SCI, cited 45 time)
9. Chiang SF, Lin TY, Chow KC\*, **Chiou SH\***. 2010. SARS spike protein induces phenotypic conversion of human B cells to macrophage-like cells. *Molecular Immunology* 47: 2575-2586. (Impact factor 4.174, SCI).