

BIOGRAPHICAL SKETCH

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NAME CHEN, SZUTING	POSITION TITLE Associate Professor, Institute of Clinical Medicine National Yang-Ming University		
eRA COMMONS USER NAME (credential, e.g., agency login)			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
National Taiwan University, Taiwan	BS	1994/9-1998/7	Agronomy
National Taiwan University, Taiwan	MS	1998/9-2000/7	Life Science (Plant genetic engineering)
National Yang-Ming University, Taiwan	PhD	2003/9-2009/1	Life Science (Immunology)

A. Personal Statement

I am an immunologist focusing on the research topic of “inflammatory diseases”. My research is focusing on how host and immune cells respond to the exogenous and endogenous stimulation appropriately, and its underline mechanism regulated via innate immune receptors/sensors including the Syk coupled C-type lectin receptors (Syk-CLRs) and the member of NOD-like receptors (NLRs). These researches not only bring the new insight into the potential therapeutic candidate/strategy for alleviating tissue damage derived from acute inflammation and chronic inflammatory diseases but also provide specific target for the treatment of autoimmune diseases.

B. Positions and Honors

Positions and Employment

2000/7-2003/7	Scientist, Anawratha biotechnology Inc
2009/1-2012/6	Post-doctoral fellow, Genomic Research Center, Academia Sinica, Taiwan
2012/7-2014/7	Post-doctoral fellow, Lineberger Comprehensive Cancer center, University of North Carolina at Chapel Hill, USA
2014/8-2015/7	Assistant Professor, Taipei Medical University, College of Medicine
2014/9-2016/8	Visiting position with a title of Assistant Professor Scholar, Genomic Research Center, Academia Sinica, Taiwan
2015/8-2020/1	Assistant Professor, Institute of Clinical Medicine, National Yang-Ming University Taiwan
2020/2-Present	Associate Professor, Institute of Clinical Medicine, National Yang-Ming University Taiwan

Awards

2006	Zong-Ren Chen Immunology of Research & Development Foundation, TW
2009	Outstanding Thesis award, Yang-Ming University, TW
2009	Distinguished Thesis award, “Tiente Lee Biomedical Foundation”, TW
2009	Outstanding Thesis award, “Chien-TienHsu Foundation” in the Chinese society of cell and molecular biology, TW
2009	Award of Long –Term Smile Contest, “Acer Foundation”, TW
2012	Award of Postdoctoral Research Abroad Program-2 years, “National Science Council”, TW
2017	科技部優秀年輕學者研究計畫
2017	財團法人沈水德翁文教基金會學術論文獎
2019	中華免疫學會傑出研究學者獎
2019	國立陽明大學醫學院優良教師琉璃獎
2020	國立陽明大學醫學院院級優良教師
2020	科技部指導大專生研究計畫研究創作獎
2022	國立陽明大學醫學院院級優良教師

C. Selected peer-reviewed publications (in chronological order).

1. **Chen, S-T**, Lin, Y-L, Huang, M-T, Wu, M-F, Cheng, S-C, Lei, H-Y, Lee, C-K, Chiou, T-W, Wong, C-H, and Hsieh, S-L, CLEC5A is critical for dengue virus-induced lethal disease. **Nature** 453, 672-676 (2008).
2. **Chen S-T**, Lin Y-L, Huang M-T, Wu M-F, Hsieh S-L, *Targeting C-type lectin for the treatment of flavivirus infections. **Adv Exp Med Biol.*** 705, 769-776 (2011).
3. **Chen, S-T**, Liu R-S, Wu M-F, Lin Y-L, Chen S-Y, Hsieh S-L et al. CLEC5A Regulates Japanese Encephalitis Virus-Induced Neuroinflammation and Lethality. **PLoS Pathogens**, 8(4): e1002655 (2012).
4. Wu, M-F, **Chen, S-T**, Yang, A.H., Lin, W.W., Lin, Y.L. and Hsieh, S.L., *CLEC5A is critical for dengue-virus induced Inflammasome activation in human macrophages. **Blood*** 121, 95-106(2013).
5. Wu, M-F, **Chen, S-T** and Hsieh, S-L, *Distinct regulation of dengue virus-induced inflammasome activation in human macrophage subsets. **Journal of Biomedical Science*** 20: 36 (2013)
6. Huang M-T, **Chen, S-T**, Wu, H-Y, Chen, Y-J, Chou, T-Y, and Hsieh, S-L, DcR3 suppresses influenza virus-induced macrophage activation and attenuates pulmonary inflammation and lethality. **Journal of Molecular Medicine** Oct;93(10):1131-43 (2015)
7. Huang, Y-L, **Chen, S-T***, Liu, R-S, Chen, Y-H, Shu, P-Y, and Hsieh, S-L, CLEC5A is critical for dengue virus-induced osteoclast activation and bone homeostasis.* Equal contribution. **Journal of Molecular Medicine** Sep; 94 (9) 1025-37 (2016)
8. Liang C-C, Chen S-Y, Chen, T-Y and **Chen S-T**, Central Nervous System Melioidosis Mimics Malignancy: A Case Report and Literature **World Neurosurg.** Feb May;89:732.e19-23 (2016)
9. Teng O, **Chen S-T**, Hsu T-L, Sia S-F, Cole S, Valkenburg SA, Hsu TY, Zheng JT, Tu W, Bruzzone R, Peiris JS, Hsieh SL, Yen HL. CLEC5A-Mediated Enhancement of the Inflammatory Response in Myeloid Cells Contributes to Influenza Virus Pathogenicity In Vivo. **Journal of Virology** Jan. 2017 Vol. 91 no. 1 e01813-16
10. **Chen S-T**, Li, F-J, Hsu, T-Y, Liang, S-M, Yeh, -Y-C, Liao, W-Y, Chou, T-Y, Chen, N-J and Hsieh, S-L, CLEC5A is a critical receptor in innate immunity against Listeria infection. **Nature Communications**, 8 Article number:299 (2017)
11. **Chen S-T***, Chen L, Lin S-C., Chen, S-Y., Tsao Y-P., Guo-H., Li-F-J., Tseng W-T., Tam-Jason., Chao C-W., Ting P.J.*, NLRP12 Regulates Anti-viral RIG-I Activation via Interaction with TRIM25. **Cell Host & Microbe** 25, 1-15 (2019) *corresponding author
12. Wan-Shan Yang, Ting-Yu Lin, Lung Chang, Wayne W. Yeh, Shih-Ching Huang, Tung-Ying Chen, Yi-Ta Hsieh, **Szu-Ting Chen**, Wan-Chun Li, Chin-Chen Pan, Mel Campbell, Chia-Hung Yen, Pei-Ching Chang. HIV-1 Tat Interacts with a Kaposi's Sarcoma-Associated Herpesvirus Reactivation-Upregulated Antiangiogenic Long Noncoding RNA, LINC00313, and Antagonizes Its Function. **Journal of virology** 2020; 94(3): (SCI).
13. Chen, Se-Yi, **Chen, Szu-Ting**, Lin, Jui-Yu Lin, Chuan-Yuan. Reconstitution of Injectable Poly-d,l-lactic Acid: Efficacy of Different Diluents and a New Accelerating Method. **Plastic and Reconstructive Surgery** 2020; 8(5): e2829 (SCI)
14. Yi-Ju Chou, Ching-Cheng Lin, Ivan Dzhagalov, Nien-Jung Chen, Chao-Hsiung Lin, Chun-Cheng Lin, **Szu-Ting Chen**, Kuo-Hsin Chen & Shu-Ling Fu. Vaccine adjuvant activity of a TLR4-activating synthetic glycolipid by promoting autophagy. **Scientific Reports** 2020; 10, Article number: 8422
15. Abdulkareem Olarewaju Babamale and **Szu-Ting Chen***, Nod-Like Receptors: Critical Intracellular Sensors for Host Protection and Cell Death in Microbial and Parasitic Infections. **Int. J. Mol. Sci.** 2021, 22, 11398. *corresponding author
16. Jen-Mei Chou, Jo-Ling Tsai, Jo-Ning Hung, I-Hua Chen, **Szu Ting Chen**, Ming-Han Tsai The ORF8 protein of SARS-CoV-2 modulates the spike protein and its implications in viral transmission. **Frontiers in Microbiology** 2022 May, 19. DOI: 10.3389/fmicb.2022.883597.

17. Yen-Po Tsao, Fang-Yu Tseng⁴ Chih-Wei Chao, Ming-Han Chen, Yi-Chen Yeh, Babamale Olarewaju Abdulkareem, Sei-Yi Chen, Wen-Ting Chuang, Pei-Ching Chang, I-Chun Chen, Pin-Hsuan Wang, Chien-Sheng Wu, Chang-Youh Tsai, and **Szu Ting Chen***. NLRP12 is an innate immune checkpoint to repress IFN signatures and attenuate lupus nephritis progression. **Journal of Clinical Investigation** (accepted) 2023 *corresponding author