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教授課程：高等微生物學、應用分子遺傳學、高等分子生物學、蛋白質結構與功能、進階疫苗技術

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### 簡要學經歷及重要榮譽

科技部傑出技術移轉貢獻獎 (2021 年)

國立中興大學終身特聘教授 (2018.10.01 起)

美國 Stanford 大學遺傳研究所博士後研究

國立陽明大學微生物及免疫研究所博士後研究

國立陽明大學生物化學研究所博士

### 工作經歷

國立中興大學微生物暨公共衛生學研究所特聘教授兼任所長 (2009.08.01~2015.07.31)

國立中興大學獸醫微生物學研究所長 (2006.08.01~2009.07.31)

國立中興大學獸醫微生物學研究所教授

### 研究興趣及成果簡述

1. 家禽霍亂、雞傳染性鼻炎、水禽傳染性漿膜炎之次單位疫苗研發
2. 禽流感病毒之分子流行病學與分生診斷技術研究
3. 水禽小病毒之分子生物學與防治技術研究

### 代表著作

1. K.-P. Li, D.-H. Tan, S.-J. Ou, Y.-S. Gong, J.-H. Shien, P.-C. Chang\*. 2023. Regions Important for Hemagglutination Activity and Serotypes of *Avibacterium paragallinarum* HMTp210 Protein. *Avian Diseases*. 67(2), 153-159. (SCIE, 43/141, VETERINARY SCIENCES). MOST 110-2313-B-005-039 and 111-2313-B-005-044
2. C.-H. Lai, Y.-S. Lin, C.-M. Wang, P.-C. Chang, Y.-W. Shia\*. 2023. A Novel 16S rRNA PCR-Restriction Fragment Length Polymorphism Assay to Accurately Distinguish Zoonotic *Capnocytophaga canimorsus* and *C. cynodegmi*. *Microbiol Spectr*. 11(3):e0291622.
3. D.-H. Tan, Y.-S. Gong, S.-C. Ou, C.-Y. Yang, J.-H. Shien, Y.-C. Pang, P.-C. Chang\* (2021, Sep). Relationship between the serotypes and hemagglutinin gene sequences of *Avibacterium paragallinarum*. *Avian Diseases*. 65(3), 339-334. (SCIE, 43/141, VETERINARY SCIENCES). MOST 109-2313-B-005 -011.
4. D.-H. Tan, S.-C. Ou, J.-H. Shien, S.-W. Huang, M.-K. Hsieh, P.-C. Chang\* (2020, Jun). Serotypes and hemagglutinin gene sequences of *Avibacterium paragallinarum* isolated in Taiwan. *Avian Diseases*. 64:197-202 (SCIE, 43/141, VETERINARY SCIENCES). MOST 106-2313-B-005-051-MY3.

5. T.-Y. Tseng, Y.-C. Liu, Y.-C. Hsu, P.-C. Chang, M.-K. Hsieh, J.-H. Shien, S.-C. Ou\*. (2019, Nov). Preparation of Chicken Anemia Virus (CAV) Virus-Like Particles and Chicken Interleukin-12 for Vaccine Development Using a Baculovirus Expression System. *Pathogens*, 8(4). pii: E262. doi: 10.3390/pathogens8040262. (SCIE, 65/135, MICROBIOLOGY).
6. S.-Y. Liu, K.-P. Li, M.-K. Hsieh, P.-C. Chang, J.-H. Shien, S.-C. Ou\* (2019, Sep). Prevalence and Genotyping of *Chlamydia psittaci* from Domestic Waterfowl, Companion Birds, and Wild Birds in Taiwan. *Vector Borne Zoonotic Dis*, 9(9), 666-673. (SCIE, 95/193, PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH).
7. C.-W. Lin, M.-C. Cheng, S.-Y. Lin, S.-H. Hung, S.-Y. Jhang, C.-W. Chang, P.-C. Chang, Y.-C. Hu\* (2018, Oct). Hybrid baculovirus-mediated prolonged hemagglutinin expression and secretion in vivo enhances the vaccine efficacy. *Journal of the Taiwan Institute of Chemical Engineers*, 91, 47-56. (SCIE, 27/138, ENGINEERING, CHEMICAL).
8. C.-C. Liu, S.-C. Ou, D.-H. Tan, M.-K. Hsieh, P.-C. Chang\* (2018, Mar). Length of polycytidine repeats controls the phase-variable expression of the fimbrial protein in *Avibacterium paragallinarum*. *Taiwan Veterinary Journal*, 44(1): 27-32. MOST 106-2313-B-005-051-MY3. K.-P. Li, P.-C. Chang, M.-C. Cheng, D.-H. Tan, L.-H. Chen, Y.-P. Liu, Y.-J. Lin, H.-J. Tsai, J.-H. Shien\* (2017, Jan). Sequence diversity and associated pathogenicity of the hemagglutinin cleavage site of H5N2 avian influenza viruses isolated from chickens in Taiwan during 2013–2015. *Journal of Veterinary Medical Science*, 79(1):108-114. (SCIE, 77/141, VETERINARY SCIENCES).
9. C.-C. Liu, S.-C. Ou, D.-H. Tan, M.-K. Hsieh, J.-H. Shien, P.-C. Chang\* (2016, Sep). The fimbrial protein is a virulence factor and potential vaccine antigen of *Avibacterium paragallinarum*. *Avian Diseases*, 60(3), 649-655. (SCIE, 43/141, VETERINARY SCIENCES). MOST 103-2313-B-005-041-MY3.

#### 技術授權

1. H5 亞型流感病毒單源抗體
2. 家禽霍亂巴斯德桿菌次單位疫苗
3. 雞傳染性鼻炎次單位疫苗雞傳染性鼻炎次單位疫苗