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簡要學經歷及重要榮譽

國立中興大學終身特聘教授 (2018.10.01 起)

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

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

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之研發
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
4. 水禽類環狀病毒外殼蛋白組成之研究與次單位疫苗之研發

代表著作

期刊論文著作(近五年)

1. 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*. In press. (SCIE, 43/141, VETERINARY SCIENCES). MOST 109-2313-B-005 -011. 本人為通訊作者.
2. 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. 本人為通訊作者.
3. 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).
4. 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).
 5. 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).
 6. C.-C. Liu, S.-C. Ou, D.-H. Tan, M.-K. Hsieh, **P.-C. Chang*** (2018, Mar). Length of poly-cytidine 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. 本人為通訊作者。
 7. 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).
 8. 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. 本人為通訊作者。
 9. K.-P. Li, S.-C. Ou, J.-H. Shien, **P.-C. Chang*** (2015, Dec). Detection and differentiation of the vaccine strain and field isolates of duck hepatitis A virus type 1 using real-time RT-PCR and high resolution melting assays. *Taiwan Veterinary Journal*, 41(4), 229-235. 本人為通訊作者。
 10. T.-Y. Yen, K.-P. Li, S.-C. Ou, J.-H. Shien, **P.-C. Chang*** (2015, Jun). The white Roman goose as host for infection and viral shedding of Muscovy duck parvovirus. *Taiwan Veterinary journal*, 41(2), 85-89. 本人為通訊作者。
 11. T.-Y. Yen, K.-P. Li, S.-C. Ou, J.-H. Shien, H.-M. Lu, **P.-C. Chang*** (2015, Apr). Construction of an infectious plasmid clone of Muscovy duck parvovirus by TA-cloning and creation of a partially attenuated strain. *Avian Pathology*, 44(2):124-128. (SCIE, 13/141, VETERINARY SCIENCES). 本人為通訊作者。
 12. C.-H. Yang, D.-H. Tan, T.-T. Jong, C.-L. Wen, S.-L. Hsu, **P.-C. Chang*** (2015, Mar). In vitro anti-viral activity of ethanol extract from *Ixeris chinensis* against influenza virus. *Taiwan Veterinary Journal*, 41(1), 11-19. 本人為通訊作者。
 13. T.-Y. Tu, M.-K. Hsieh, D.-H. Tan, S.-C. Ou, J.-H. Shien, T.-Y. Yen, **P.-C. Chang*** (2015, Mar). Loss of the capsule increases the adherence activity but decreases the virulence of *Avibacterium paragallinarum*. *Avian Diseases*, 59(1), 87-93. (SCIE, 43/141, VETERINARY SCIENCES). MOST 103-2313-B-005-041-MY3. 本人為通訊作者。

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

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