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學經歷

Education:

1997/08-2001/07; Tzu Chi University, Hualien, Taiwan; BS.

醫事技術學系, 慈濟大學; 學士

2002/08-2008/10; Institute of Basic Medical Science, College of Medicine, National Cheng Kung University, Tainan, Taiwan; Ph.D.

基礎醫學研究所, 成功大學; 博士

Employment Record :

2008/12-2011/10; Post doctoral researcher; Department of Medical Laboratory Science and Biotechnology, College of Medicine, National Cheng Kung University, Tainan, Taiwan

博士後研究員, 醫學檢驗生物技術學系, 成功大學

2011/10-2012/7; Assistant Professor; Department of Medical Laboratory Science and Biotechnology, College of Medicine, National Cheng Kung University, Tainan, Taiwan

助理教授, 醫學檢驗生物技術學系, 成功大學

2012/8-Current; Assistant Professor; Department of Microbiology and Immunology, College of Medicine, Chang Gung University, Tao-Yuan, Taiwan

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研究方向

Streptococcus pyogenes (group A streptococcus, GAS) is one of the major human pathogen which causes various diseases including pharyngitis, cellulitis, scarlet fever, necrotizing fasciitis, and toxic shock syndrome. Although this pathogen is sensitive to antibiotics treatment, it still caused more than 500,000 deaths per year in the global scale. In addition, no vaccine is available for preventing GAS infections. My research focuses on studying the mechanism of GAS virulence genes regulation under stress conditions by combining bacterial genetics manipulations with different *in vitro* and *in vivo* experiment models. In addition, to extend the observations from clinical surveillance, the biological significance of GAS phenotypic heterogeneity and instability are analyzed.

著作(-present)

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 10. **Chiang-Ni, C., P. X. Zheng, P. J. Tsai, W. J. Chuang, Y. S. Lin, C. C. Liu, and J. J. Wu.** 2012. Environmental pH changes, but not the LuxS signalling pathway, regulate SpeB expression in M1 group A streptococci. *J. Med. Microbiol.* **61**:16–22.
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