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Research

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 thousand deaths each year in global scale. In addition, no vaccine is available for preventing GAS infections. My research focuses on studying the mechanism of GAS virulence genes regulation and its role in GAS pathogenesis by combining bacterial genetics manipulations with different infectious models. In addition, to extend the observations from clinical surveillance, the biological significance of GAS genome diversity and instability are analyzed.



Education

2008-2011: Post-Doctoral Researcher

Department of Medical Laboratory Science and Biotechnology, College of Medicine,
National Cheng Kung University, Tainan, Taiwan.

2002-2008: Ph.D.

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