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Research : Flaviviruses

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Education

1991.9~1995.7 B.S. Public Health National Taiwan University

1995.9~2001.7 Ph.D. Epidemiology National Taiwan University

Research and professional experience

1995.9~1998.9	Assistant (part-time)	National Taiwan University
1998.10~2001.7	Assistant (part-time)	Chang Gung University
2001.7~2003.3	Ensign	ROC Navy
2003.4~2004.1	Postdoc	Chang Gung University
2004.2~2005.7	Assistant Professor	National Chia-Yi University
2005.7~2005.9	Guest Researcher	Academia Sinica
2006.7~2006.10	Guest Researcher	CDC, USA
2008.6~2008.9	Guest Researcher	CDC, USA
2005.8~2009.1	Assistant Professor	National Chung Hsing University
2009.2~2013.07	Associate Professor	National Chung Hsing University
2013.8~	Professor	National Chung Hsing University

Honors

Outstanding Young Investigator Award of National Chung Hsing University (2008)

Publications

1. **Chiou S.S.**, and Chen WJ. (2001). Mutation in the NS3 gene and 3'-NCR of Japanese encephalitis virus isolated from an unconventional ecosystem and implications for natural attenuation of the virus. *Virology* 289: 129-136. (SCI)
2. Chen WJ, Wu HR, and **Chiou S.S.**. (2003). E/NS1 modifications of dengue 2 virus after serial passages in mammalian and/or mosquito cells. *Intervirology* 46: 289-295. (SCI)
3. Chuang CK, **Chiou S.S.**, Liang LC, and Chen WJ. (2003). Detection of Japanese encephalitis virus inside peripheral blood mononuclear cells of mouse using in situ RT-PCR. *American Journal of Tropical Medicine and Hygiene* 69(6): 648-651 (SCI).

4. Liu H, **Chiou S.S.**, and Chen WJ. (2004). Differential binding efficiency between the envelope protein of Japanese encephalitis virus variants with heparan sulfate on the cell surface. *Journal of Medical Virology* 72:618–624. (SCI)
5. **Chiou S.S.**, Liu H, Chuang CK, and Chen WJ. (2005). Fitness of Japanese encephalitis virus to Neuro-2a cells is determined by interactions of viral envelope protein with highly sulfated glycosaminoglycans on the cell surface. *Journal of Medical Virology* 76:583–592. (SCI)
6. **Chiou S.S.**, Tsai KH, Huang CG, Liao YK, and Chen WJ. (2007). High antibody prevalence in an unconventional ecosystem is related to circulation of a low-virulent strain of Japanese encephalitis virus. *Vaccine* 25:1437-1443. (SCI)
7. **Chiou S.S.**, and Chen WJ. (2007). Phenotypic changes in the Japanese encephalitis virus after one passage in Neuro-2a cells: generation of attenuated strains of the virus. *Vaccine* 26:15-23. (SCI)
8. **Chiou S.S.**, Crill WD, Chen LK, and Chang GJJ. (2008). Enzyme-linked immunosorbent assays using novel Japanese encephalitis virus antigen improves the accuracy of clinical diagnosis in flavivirus infected patients. *Clinical and Vaccine Immunology*. 15(5):825-35. (SCI)
9. Chien YJ, Chen, WJ, Hsu WL and **Chiou S.S.** (2008). Bovine lactoferrin inhibits Japanese Encephalitis Virus by binding to heparan sulfate and receptor for low density lipoprotein. *Virology* 379:143-151. (SCI) (NSC 95-2313-B-005-023-)
10. Li TH, Chiu CH, Chen WC, Chen CM, Hsu YM, **Chiou S.S.**, Chiou CS, and Chang CC. (2009). Consumption of groundwater as an Independent Risk Factor of *Salmonella enterica* serovar Choleraesuis Infection: A Case-control Study in Taiwan. *Journal of Environmental Health* (in press) (SCI).
11. Chen DY, Shien JH, Tiley L, **Chiou S.S.**, Wang SY, Chang TJ, Lee YJ, Chan KW, and Hsu WL. (2009). Curcumin inhibits influenza virus infection and haemagglutination activity. *Food Chemistry* (in press) (SCI).