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**Research interest:**

My research focuses on clinical diagnostic virology, viral surveillance, molecular epidemiology of re-emergent virus, analysis of virulence gene and pathogenesis of enterovirus and influenza virus. We have collaborated with the physicians at the National Cheng Kung University Medical Center, the regional hospitals, and primary care clinics to establish virus watch program in southern Taiwan.

#### **Publications:**

1. Tsai HP, Wang HC, Kiang D, Huang SW, Kuo PH, Liu CC, Su IJ, Wang JR. 2006. Increasing appearance of influenza B reassortment virus in Taiwan from 2002 to 2005. *J Clin Microbiol* 44: 2705-2713.
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3. Kung YH, Huang SW, Kuo PH, Kiang D, Ho MS, Liu CC, Yu CK, Su IJ, Wang JR. 2010. Introduction of a strong temperature-sensitive phenotype into enterovirus 71 by altering the amino acid of virus 3D polymerase. *Virology* 396: 1-9.
4. Chi CY, Liu CC, Lin CC, Wang HC, Cheng YT, Chang CM, Wang JR. 2010. Pre-existing Antibody Response against 2009 Pandemic Influenza H1N1 Viruses in Taiwanese Population. *Clin Vaccine Immunol* 17(12):1958-1962.
5. Huang SW, Kiang D, Smith DJ, and Wang JR. 2011. Evolution of re-emergent virus and its impact on enterovirus 71 epidemics. *Exp Biol Med* 236:899-908.
6. Tsai HP, Huang SW, Wu FL, Kuo PH, Wang SM, Liu CC, Su IJ, Wang JR. 2011. A genetic variant echovirus 18 associated with outbreak of aseptic meningitis in Taiwan. *J Med Microbiol* 60(9):1360-1365.
7. Yeh MT, Wang SW, Yu CK, Lin KH, Lei HY, Su IJ, Wang JR. 2011. A Single Nucleotide in Stem Loop II of 5'-Untranslated Region Contributes to Virulence of Enterovirus 71 in Mice. *PLoS One* 6(11): e27082.
8. Huang SW, Wang YF, Yu CK, Su IJ, Wang JR. 2011. Mutations in VP2 and VP1 capsid proteins increase infectivity and mouse lethality of enterovirus 71 by virus binding and RNA accumulation enhancement. *Virology* (In press).