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MAJOR RESEARCH INTERESTS

1. Innate immunity against *Burkholderia pseudomallei* and mechanisms of host evasion by pathogen.
2. Pathogenesis and virulence determinants of *Burkholderia pseudomallei*. Host-pathogen interactions are being investigated at the molecular and cellular level, and through animal models.

REPRESENTATIVE PUBLICATIONS

1. **Gan YH**, Chua KL, Chua HH, Liu BP, Hii CS, Chong HL and Tan P. (2002) Characterization of *B. pseudomallei* infection and identification of novel virulence factors using a *C. elegans* host system. *Mol. Microbiol.* 44: 1185-1197.
2. Liu BP, Koo GC, Yap EH, Chua KL and **Gan YH**. (2002) A model of differential susceptibility to mucosal infection of *Burkholderia pseudomallei*. *Infect. Immun.* 70: 504-511.
3. Chua KL, Chan YY and **Gan YH**. (2003) Flagella, a virulence determinant in *Burkholderia pseudomallei*. *Infect. Immun.* 71: 1622-1629.
4. Chen K, Lu J, Wang L and **Gan YH**. (2004). Mycobacterial heat shock protein 65 enhances antigen cross-presentation in dendritic cells independent of Toll-like receptor 4 signaling. *J. Leukoc. Biol.* **75**: 260-266.
5. Chen K, Sun GW, Chua KL, and **Gan YH**. (2005). Modified Virulence of Antibiotic-induced *Burkholderia pseudomallei* Filaments. *Antimicrob. Agents Chemotherapy*, **49**: 1002-1009.
6. Sun GW, Lu J, Pervaiz S, Cao WP and **Gan YH**. (2005) Caspase-1 dependent macrophage death induced by *Burkholderia pseudomallei*. *Cell. Microbiol.* 7: 1447-1458.
7. Gan YH. (2005). Interaction of *Burkholderia pseudomallei* with host immune response: sleeping with the enemy? *J. Infect. Dis.* 192: 1845-1850.
8. Koo GC and **Gan YH**. (2006). The innate interferon gamma response of BALB/c and C57BL/6 mice to in vitro *Burkholderia pseudomallei* infection. *BMC Immunol.*, 7:19.
9. Ye Z and **Gan YH**. (2007) Flagellin contamination of heat shock protein 70 is responsible for its activity on T cells. *J. Biol. Chem.* 282: 4479-4484.