

Selected Publications (*corresponding author)

1. Y.L. Tang, T.S. Sim and K.S. Tan* (2022). Oral streptococci subvert the host innate immune response through hydrogen peroxide. *Scientific Reports* 12:656
2. Y.R.I. Lim, P.M. Preshaw, H.S. Lin and K.S. Tan* (2021). Resveratrol and its Analogues as Functional Foods in Periodontal Disease Management. *Frontiers in Dental Medicine, Periodontics* <https://doi.org/10.3389/fdmed.2021.636423>.
3. N. Gupta, J. Ferreira, C.H.L. Hong and K.S. Tan* (2020). *Lactobacillus reuteri* DSM 17938 and ATCC PTA 5289 Ameliorates Chemotherapy-Induced Oral Mucositis. *Scientific Reports* 2020 10:16189
4. Y.R.I. Lim, P.M. Preshaw, L.P. Lim, M.M.A. Ong, H.S. Lin and K.S. Tan* (2020). Pterostilbene complexed with cyclodextrin exerts antimicrobial and anti-inflammatory effects. *Scientific Reports* 10:9072.
5. E.E. Tan, S.Y. Quah, G. Bergenholtz, V. Rosa, V.S.H. Yu and K.S. Tan* (2019). Antibiotics Used in Regenerative Endodontics Modify Immune Response of Macrophages to Bacterial Infection. *Journal of Endodontics* 45(11):1349-1356. [Highlighted by the Editorial]
6. N. Gupta, S.Y. Quah, J.F. Yeo, J. Ferreira, K.S. Tan*, C.H.L. Hong (2019). Role of Oral Flora in Chemotherapy-induced Oral Mucositis *In Vivo*. *Achieves of Oral Biology* 14;101:51-56
7. A.T. Chow, S.Y. Quah, G. Bergenholtz, K.C. Lim, V.S.H. Yu and K.S. Tan* (2019). Bacterial species associated with persistent apical periodontitis exert differential effects on osteogenic differentiation. *International Endodontic Journal* 52:201-210.
8. C.H.L. Hong, M.M. Aung, K. Kanagasabai, C.A. Lim, S. Liang and K.S. Tan* (2018). The association between oral health status and respiratory pathogen colonization with pneumonia risk in institutionalized adults. *International Journal of Dental Hygiene* 16:e96-e102. [Highlighted by local media]
9. Q. Ding and K.S. Tan* (2017). Himar1 transposon for efficient random mutagenesis in *Aggregatibacter actinomycetemcomitans*. *Frontiers in Microbiology* 8:1842.
10. E.X. Goh, K.S. Tan, Y.H. Chan and L.P. Lim (2017). Effects of photodynamic therapy in residual pockets of patients on supportive periodontal therapy: a randomized split-mouth trial. *Photodiagnosis and Photodynamic Therapy* 18:342-348.
11. Q. Ding and K.S. Tan* (2016). The danger signal extracellular ATP is an inducer of *Fusobacterium nucleatum* biofilm dispersal. *Frontiers in Cellular and Infection Microbiology* 17;6:155.
12. Q. Ding, S.Y. Quah and K.S. Tan* (2016). Secreted ATP from *A. actinomycetemcomitans* triggers chemokine response. *Molecular Oral Microbiology* 31:423-434.
13. W. Guo, S.Y. Quah, K.C. Lim, V.S.H. Yu and K.S. Tan* (2016). Cysteamine enhances biofilm eradication efficacy of calcium hydroxide. *Journal of Endodontics* 42:742-746.
14. X.J. Ooi and K.S. Tan* (2016). Reduced glutathione mediates resistance to H₂S toxicity in oral streptococci. *Applied and Environmental Microbiology* 82(7):2078-85.
15. C.X. Tay, S.Y. Quah, J.N. Lui, V.S.H. Yu and K.S. Tan* (2015). MMP inhibitor as an antimicrobial agent to eradicate *Enterococcus faecalis* biofilm. *Journal of Endodontics* 41(6):858-63.
16. H.P. Lew, S.Y. Quah, J.N. Lui, G. Bergenholtz, V.S.H. Yu and K.S. Tan* (2015). Isolation of alkaline tolerant bacteria from primary infected root canals. *Journal of Endodontics* 41(4): 451-456. 13.
17. K.S. Tan*, V.S.H. Yu, S.Y. Quah and G. Bergenholtz (2015). Rapid method for the detection of root canal bacteria in endodontic therapy. *Journal of Endodontics* 41(4): 447-450. [Top endodontic article published in April 2015, selected by the Scientific Advisory Board of Endolit].
18. P. Lee and K.S. Tan* (2015). Effects of epigallocatechin gallate against *Enterococcus faecalis* biofilm and virulence. *Archives of Oral Biology* 60: 393-399.
19. P. Lee and K.S. Tan* (2014). *Fusobacterium nucleatum* activates immune response through Retinoic Acid-Inducible Gene I. *Journal of Dental Research* 93(2): 162-168.
20. S.Y. Quah, G. Bergenholtz and K.S. Tan* (2014). *Fusobacterium nucleatum* induces cytokine production through toll-like receptor independent mechanism. *International Endodontic Journal* 47: 550-559.
21. S.Y. Quah, S. Wu, J.N. Lui, C.P. Sum and K.S. Tan* (2012). N-acetylcysteine inhibits growth and eradicates biofilm of *Enterococcus faecalis*. *Journal of Endodontics*, 38(1):81-85.
22. K.S. Tan, K.O. Lee, K.C. Low, A.M. Gamage, Y. Liu, G.Y.G. Tan, H.Q.V. Koh, S. Alonso, Y.H. Gan (2012). Glutathione deficiency in Type 2 diabetes impairs cytokine responses and control of intracellular bacteria. *Journal of Clinical Investigation*, 122:2289-300.
23. K.S. Tan, Y. Chen, Y.C. Lim, G.Y.G. Tan, Y. Liu, Y.T. Lim, P. MacAry and Y.H. Gan (2010). Inhibition of host innate immune response by *Burkholderia pseudomallei* through virulence factor TssM. *Journal of Immunology*, 184: 5160-71.
24. I.E. Tchivileva, K.S. Tan, M. Gambarian, A. Medvedev, A.G. Nackley, S. Romanov, P.M. Flood, W. Maixner, S.S. Makarov and L.B. Diatchenko (2009). Signaling pathways mediating beta-3 adrenergic receptor-induced production of Interleukin-6 in adipocytes. *Molecular Immunology*, 46: 2256-66.

25. K.S. Tan, A.G. Nackley, K. Satterfield, W. Maixner, L.B. Diatchenko and P.M. Flood (2007). Beta-2 adrenergic receptor activation stimulates pro-inflammatory cytokine production in macrophages via PKA- and NF- κ B-independent mechanisms. *Cellular Signaling* 19: 251-60.
26. L. Qian, K.S. Tan, S.J. Wei, H.M. Wu, B. Wilson, J.S. Hong and P.M. Flood (2007). Microglia-mediated neurotoxicity is inhibited by both levo- and dextro- forms of morphine through an ERK-mediated reduction of NADPH oxidase activity. *Journal of Immunology*, 179: 1198-1209.
27. A.G. Nackley, K.S. Tan, K. Fecho, P. Flood, L. Diatchenko and W. Maixner (2007). Catechol-O-methyltransferase inhibition increases pain sensitivity through activation of both beta-2 and beta-3 adrenergic receptors. *Pain*, 128: 199-208.
28. K.S. Tan, L. Qian, R. Rosado, P.M. Flood and L.F. Cooper (2006). The role of titanium surface topography on J774A.1 macrophage inflammatory cytokines and nitric oxide production. *Biomaterials*, 27: 5170-5177.
29. K.S. Tan, G. Ong and K.P. Song (2005). Introns in the cytolethal distending toxin gene of *Actinobacillus actinomycetemcomitans*. *Journal of Bacteriology*, 187: 567-575.
30. K.S. Tan, K.P. Song and G. Ong (2002). Cytolethal-distending toxin of *Actinobacillus actinomycetemcomitans*: Occurrence and association with periodontal disease. *Journal of Periodontal Research*, 37: 268-272.
31. K.S. Tan, K.P. Song and G. Ong (2001). *Bacteroides forsythus* prtH genotype in periodontitis patients: Occurrence and association with periodontal disease. *Journal of Periodontal Research*, 36: 398-403.
32. K.S. Tan, C.H. Woo, G. Ong and K.P. Song (2001). Prevalence of *Actinobacillus actinomycetemcomitans* in an ethnic adult Chinese population. *Journal of Clinical Periodontology*, 28:886-890.