



Name Assistant Professor Dr. Kusumawadee Utispan
Office Department of Oral Biology, Faculty of Dentistry, Thammasat University
Fax +662-986-9205
E-mail address kusumawadee.utispan@gmail.com

Education Background

B.Sc. (Medical Technology) (second class honors), Faculty of Associated Medical Sciences, Khon Kaen University, Thailand

PhD. (Medical Biochemistry), Faculty of Medicine, Khon Kaen University, Thailand

Academic experience

Editorial board of the Asian Pacific Journal of Cancer Biology (2019-present)

Research Interested

Head and neck squamous cell carcinoma

- Molecular biology of cancers cells and tumor microenvironment
- Tumor markers and signaling pathway
- Effects of natural products on cancer cells

Publications

1. **Utispan K**, Koontongkaew S. Macrophage migration inhibitory factor modulates proliferation, cell cycle, and apoptosis activity in head and neck cancer cell line. *J Dent Sci.* **2020** (In Press). (**Impact factor 0.78**)
2. **Utispan K**, Koontongkaew S. High nitric oxide adaptation in isogenic primary and metastatic head and neck cancer cells. *Anticancer Res.* **2020**, 40(5), 2657-2665. (**Impact factor 1.90**)
3. **Utispan K**, Niyomtham N, Yingyongnarongkul BE, Koontongkaew S. Ethanolic extract of *Ocimum sanctum* leaves reduced invasion and matrix metalloproteinase activity of head and neck cancer cell lines. *Asian Pac J Cancer Prev.* **2020**, 21(2), 363-370. (**Impact factor 2.52**)
4. Sonongbua J, Siritungyong S, Thongchot S, Kamolhan T, Utispan K, Thuwajit P, Pongpaibul A, Wongkham S, Thuwajit C. Periostin induces epithelial-to-mesenchymal transition via the integrin $\alpha 5\beta 1$ /TWIST-2 axis in cholangiocarcinoma. *Oncol Rep.* **2020**, 43(4), 1147-1158. (**Impact factor 3.04**)
5. Kokilakanit P, Koontongkaew S, Roytrakul S, **Utispan K**. A novel non-cytotoxic synthetic peptide, Pug-1, exhibited an antibiofilm effect on *Streptococcus mutans* adhesion. *Lett Appl Microbiol.* **2020**, 70(3), 151-158. (**Impact factor 1.8**)
6. Le Van, Leelakriangsak M, Lee Seong, Panphon S, **Utispan K**, Koontongkaew S. Characterization and safety evaluation of partially purified bacteriocin produced by *Escherichia coli* E isolated from fermented pineapple *Ananas comosus* (L.) Merr. *Braz J Microbiol.* **2019**, 50(1):33-42.
7. **Utispan K**, Pugdee K, Koontongkaew S. *Porphyromonas gingivalis* lipopolysaccharide-induced macrophages modulate proliferation and invasion of head and neck cancer cell lines. *Biomed Pharmacother.* **2018**, 101: 988–995. (**Impact factor 3.78**)
8. **Utispan K**, Chitkul B, Koontongkaew S. Cytotoxic activity of propolis extracts from the stingless bee *Trigona Sirindhornae* against primary and metastatic head and neck cancer cell lines. *Asian Pac J Cancer Prev.* **2017**, 18(4): 1051–1055. (**Impact factor 2.52**)
9. **Utispan K**, Chitkul B, Monthanapisut P, Meesuk L, Pugdee K and Koontongkaew S. Propolis extracted from the stingless bee *Trigona sirindhornae* inhibited *S. mutans* activity in vitro. *Oral Health Prev Dent.* **2017**, 15: 279-284. (**Impact factor 0.69**)

10. **Utispan K**, Koontongkaew S. Fibroblasts and macrophages: Key players in the head and neck cancer microenvironment. *J Oral Biosci.* **2017**, 59: 23–30.
11. Rinchai D, Riyapa D, Buddhisa S, **Utispan K**, Titball W R, Stevens P M, Stevens M J, Ogawa M, Tanida I, Koike M, Uchiyama Y, Ato M and Lertmemongkolchai G. Macroautophagy is essential for killing of intracellular *Burkholderia pseudomallei* in human neutrophils. *Autophagy*, **2015**, 11(5): 748-755. (**Impact factor 11.75**)
12. Kewcharoenwong C, Rinchai D, **Utispan K**, Suwannasaen D, Bancroft J G, Ato M and Lertmemongkolchai G. Reduced Cytokine Production of human Polymorphonuclear Neutrophil response to *B. pseudomallei* in Diabetes Mellitus. *Scientific report.* **2013**, 28 (3): 3363. (**Impact factor 4.52**)
13. **Utispan K**, Sonongbua J, Thuwajit P, Chua-in S, Pairojkul C, Wongkham S and Thuwajit C. Periostin activates integrin $\alpha 5\beta 1$ through a PI3K/AKT-dependent pathway in invasion of cholangiocarcinoma. *Int J Oncol.* **2012**, 41: 1110-1118. (**Impact factor 2.39**)
14. **Utispan K**, Thuwajit P, Abiko Y, Charngkaew K, Paupairoj A, Chau-in S and Thuwajit C. Gene expression profiling of cholangiocarcinoma-derived fibroblast reveals alterations related to tumor progression and indicates periostin as a poor prognostic marker. *Mol Cancer* **2010**, 9; 13 doi: 10. 1186/1476-4598-9-13. (**Impact factor 7.89**)
15. **Utispan K** and Pugdee K (**2014**). Roles of microenvironment in oral cancer. *Thai J. Oral Maxillofac. Surg.* 28 (2): 104-116.
16. Pugdee K and **Utispan K** (**2014**). The linkage between periodontitis and cancer. *Thai J. Oral Maxillofac. Surg.* 28 (1): 40-48.

Book

1. **Utispan K**, Koontongkaew S, Aupapong V. (eds.) *Scientific basis for caries prevention*. I Group Press, Bangkok, **2020** (in Thai)