CURRICULUM VITAE

Assistant Professor Dr. KUSUMAWADEE UTISPAN

B.Sc. (Medical Technology) (**second class honours**)

PhD. (Medical Biochemistry)

PERSONAL INFORMATION

Name:	**Miss Kusumawadee Utispan**
Qualification:	B.Sc. (Medical Technology) (**second class honours**), Faculty of Associated Medical Science, Khon Kaen University

Ph.D. (Medical Biochemistry), Faculty of Medicine, Khon Kaen University

Nationality:	Thai
Sex:	Female
Date of birth:	March 7, 1983
Place of birth:	Khon Kaen, Thailand
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EDUCATION

Level	School/Faculty/University	Graduate year	GPA
B.Sc.	Associated Medical Science Khon Kaen University	2004	3.44 (second class honours)
PhD.	Department of Biochemistry, Faculty of Medicine, Khon Kaen University	2010	3.82

TRAINING

Activities	Duration	Places
1. PhD. training Under supervision of Assoc. Prof. Dr. Chanitra Thuwajit **Title of thesis:** Gene expression profile of cholangiocarcinoma- associated fibroblast and roles in cancer progression	May 2004-2010	Department of Biochemistry, Faculty of Medicine, Khon Kaen University, Thailand
2. Research training: Gene expression profile of cholangiocarcinoma-associated fibroblast using microarray technique **Mentor:** Prof. Dr. Yoshimitsu Abiko	May-September 2007	Department of Biochemistry, and Molecular Biology, Nihon University School of Dentistry at Matsudo, Chiba, Japan
3. Research fellow entitled: Signal transduction pathway-associated cellular response to *Burkholderia pseudomallei* infection **Mentor:** Assistant Prof. Dr. Ganjana Lertmemongkolchai	December 2010-June 2012	Faculty of Associated Medical Sciences, Khon Kaen University, Thailand

PUBLICATIONS

International Publications

1. **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 2.7**)

2. **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**)

3**. 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**)

4. **Utispan K**, Koontongkaew S. Fibroblasts and macrophages: Key players in the head and neck cancer microenvironment. J Oral Biosci. **2017**, 59: 23–30.

5. Rinchai D, Riyapa D, Buddhisa S, **Utispan K**, Titball W R, Stevens P M, Stevens M J, Ogawa M, Tanidae 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**)

6. 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 2.93**)

7. **Utispan K**, Sonongbua J, Thuwajit P, Chua-in S, Pairojkul C, Wongkham S and Thuwajit C. Periostin activates integrin **α**5**β**1 through a PI3K/AKT-dependent pathway in invasion of cholangiocarcinoma. Int J Oncol. **2012**, 41: 1110-1118. (**Impact factor 2.39**)

8. **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 5.36**)

National Publications

1. **Utispan K** and Pugdee K (**2014**). Roles of microenvironment in oral cancer. Thai J. Oral Maxillofac. Surg. 28 (2): 104-116.
2. Pugdee K and **Utispan K** (**2014**). The linkage between periodontitis and cancer. Thai J. Oral Maxillofac. Surg. 28 (1): 40-48.

RESEARCH AWARDS

1. Young Researcher Award 2014, Faculty of Dentistry, Thammasat University
2. The First Runner-Up Award of Merck Young Scientist Award 2010

PRESENTATIONS

Oral Presentation

1. **Utispan K**, Pugdee K and Koontongkaew S (2015). Lipopolysaccharide–induced macrophage inhibits proliferation of head and neck squamous cell carcinoma cell line. 6th Thai Society of Oral Biology Meeting, January 14-16, Thailand
2. **Utispan K**, Dhogpracone T, Thienngern P and Tilabal K (2014). LPS–induced monocyte enhances proliferation of head and neck squamous cell carcinoma cell line. The Dental Faculty Consortium of Thailand, July 1, Thailand
3. **Utispan K** (2014). Understanding the link between inflammation and cancer: Molecular linking between inflammation and cancer. Scientific Conference, 18th Anniversary of Faculty of Dentistry, Thammasat University, February 21, Thailand
4. **Utispan K** and Koontongkaew S (2013). *Trigona sirindhornae* propolis reduces progression of head and neck cancer cell lines. The Dental Faculty Consortium of Thailand May 7-9, Thailand
5. **Utispan K** (2013). Oral cancer: The relevance of cancer and microenvironment. Scientific Conference, 17th Anniversary of Faculty of Dentistry, Thammasat University, February 21, Thailand

6. **Utispan K**, Nithichanon A and Lertmemongkolchai G (2012). Progress on human T cell epitope mapping. NIH IEDB Epitope analysis consortium meeting, June 28-29, London School of Hygiene and Tropical Medicine, London, United Kingdom

7. **Utispan K**, Nithichanon A, Buddhisa S, Suwannasaen D and Lertmemongkolchai G (2011). Epitope mapping of T cell. Conference on Tropical Diseases: Clinical Perspectives and New Research Conference, November 8-11, Thailand

8. **Utispan K**, Thuwajit P, Abiko Y, Charngkaew K, Paupairoj A, Chau-in S and Thuwajit C (2010). Gene expression profiling of cholangiocarcinoma-derived fibroblast reveals alterations related to tumor progression and indicates periostin as a poor prognostic marker. Merck Young Scientist Award 2010, November 18, Thailand (**The First Runner-Up Award**)

Poster Presentations

1. **Utispan K** and Koontongkaew S (2014). Differential expression profile of mucins in human head and neck cancer cell lines. 9th International Conference of Anticancer Research, October 6-10, Greece

2. **Utispan K** and Koontongkaew S (2013). *Trigona sirindhornae* propolis reduces migration of head and neck cancer cell lines. Federation of European Biochemical Societies Congress, July 6-11, Russia

3. **Utispan K** and Koontongkaew S (2012). *Trigona Sirindhornae* propolis reduces cell proliferation of head and neck cancer cell lines. 5th Thai Society of Oral Biology Meeting, November 15-17, Thailand

RESEARCH GRANTS

1. Thailand Research Fund: Roles of mucin in metastasis of head and neck cancer cells

2. National Research Council of Thailand: Molecular changes induced by high nitric oxide adaptation in head and neck cancer cells

RESEARCH OF INTEREST

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

RESEARCH EXPERIENCES

- Biochemistry and molecular biology of cells
- Gene and protein expression analysis
- Molecular biology of cancer and signaling pathway analysis