

	Assoc.Prof. Dr. Kusumawadee Utispan	
	PRESENT APPOINTMENT	
	Division	Oral Biology Faculty of Dentistry ThammasatUniversity
	E-mail	utispank@tu.ac.th
	Phone Number	02-986-9213
	Research profile	Research Dentistry TU > Scopus > Researcher ID > ORCID
	Research Theme	
	Areas of Research Expertise	Biology of cancer and oral cells, Biological activity of natural product in oral diseases

Research funding

Proposal	funding	Amount	Year
Next generation sequencing based-tumor markers detection in Thai patients with oral cancer	ทุนภายนอก วรรณ 68	1,056,000	2024

Presentation of academic

Title	Presentation	funding	About	Year
Nitric oxide modulates glycolysis in head and neck cancer cells	Oral presentation	Dentistry Thammasat University	The Joint 37th International Association for Dental Research South East Asian Division Annual Scientific Meeting and 2nd International Oral Health Symposium 22-25 พฤศจิกายน 2566 Duke-NUS Medical School, and the National Dental Centre ประเทศ สิงคโปร์	2023

PUBLICATIONS

Scopus

1	<p><u>Caffeic acid phenethyl ester inhibits multispecies biofilm formation and cariogenicity</u></p> <p><u>Kokilakanit, P., Dungkhuntod, N., Serikul, N., Koontongkaew, S., Utispan, K.</u></p> <p><u>Peerj</u>, 13(2), 18942</p> <p>2025</p>
2	<p><u>Nitric oxide has diverse effects on head and neck cancer cell proliferation and glycolysis</u></p> <p><u>Kokilakanit, P., Koontongkaew, S., Utispan, K.</u></p> <p><u>Biomedical Reports</u>, 21(1), 106</p> <p>2024</p>
3	<p><u>High nitric oxide-adapted head and neck cancer cell lines demonstrate altered autophagy and apoptosis</u></p> <p><u>Selvido, D.I., Koontongkaew, S., Kokilakanit, P., ... Korsuwannawong, S., Utispan, K.</u></p> <p><u>Journal of Dental Sciences</u>, 19(2), pp. 855–864</p> <p>2024</p>
4	<p><u>Ethanollic extract of Ocimum sanctum leaf modulates oxidative stress, cell cycle and apoptosis in head and neck cancer cell lines</u></p> <p><u>Utispan, K., Koontongkaew, S., Niyomtham, N., Yingyongnarongkul, B.-E.</u></p>

	<p><u>Heliyon</u>, 9(4), e15518 2023</p>
5	<p><u>Effectiveness of a Combined Toothbrushing Technique on Cariogenic Dental Biofilm in Relation to Stainless Steel and Elastomeric Ligatures in Orthodontic Patients: A Randomized Clinical Trial</u> Saengphen, T., Koontongkaew, S., Utispan, K. <u>Healthcare Switzerland</u>, 11(5), 731 2023</p>
6	<p><u>Bitter Taste Perception and Dental Biofilm Cariogenicity in Orthodontics</u> Luengthamchat, N., Koontongkaew, S., Utispan, K. <u>International Dental Journal</u>, 72(6), pp. 805–810 2022</p>
7	<p><u>Fixed Orthodontic Treatment Increases Cariogenicity and Virulence Gene Expression in Dental Biofilm</u> Thanetchaloempong, W., Koontongkaew, S., Utispan, K. <u>Journal of Clinical Medicine</u>, 11(19), 5860 2022</p>
8	<p><u>The Oral Wound Healing Potential of Thai Propolis Based on Its Antioxidant Activity and Stimulation of Oral Fibroblast Migration and Proliferation</u> Jongjitaree, S., Koontongkaew, S., Niyomtham, N., Yingyongnarongkul, B.-E., Utispan, K. <u>Evidence Based Complementary and Alternative Medicine</u>, 2022, 3503164 2022</p>
9	<p><u>Mucin 1 regulates the hypoxia response in head and neck cancer cells</u> Utispan, K., Koontongkaew, S. <u>Journal of Pharmacological Sciences</u>, 147(4), pp. 331–339 2021</p>
10	<p><u>Apis mellifera propolis enhances apoptosis and invasion inhibition in head and neck cancer cells</u> Niyomtham, N., Koontongkaew, S., Yingyongnarongkul, B.-E., Utispan, K. <u>Peerj</u>, 9, 12139 2021</p>
11	<p><u>Macrophage migration inhibitory factor modulates proliferation, cell cycle, and apoptotic activity in head and neck cancer cell lines</u> Utispan, K., Koontongkaew, S. <u>Journal of Dental Sciences</u>, 16(1), pp. 342–348 2021</p>
12	<p><u>High nitric oxide adaptation in isogenic primary and metastatic head and neck cancer cells</u> Utispan, K., Koontongkaew, S. <u>Anticancer Research</u>, 40(5), pp. 2657–2665 2020</p>

13	<p><u>A novel non-cytotoxic synthetic peptide, Pug-1, exhibited an antibiofilm effect on Streptococcus mutans adhesion</u></p> <p><u>Kokilakanit, P., Koontongkaew, S., Roytrakul, S., Utispan, K.</u> <u>Letters in Applied Microbiology, 70(3), pp. 151–158</u> 2020</p>
14	<p><u>Ethanollic Extract of Ocimum sanctum Leaves Reduced Invasion and Matrix Metalloproteinase Activity of Head and Neck Cancer Cell Lines</u></p> <p><u>Utispan, K., Niyomtham, N., Yingyongnarongkul, B.E., Koontongkaew, S.</u> <u>Asian Pacific Journal of Cancer Prevention, 21(2), pp. 363–370</u> 2020</p>
15	<p><u>Periostin induces epithelial-to-mesenchymal transition via the integrin $\alpha 5\beta 1$/TWIST-2 axis in cholangiocarcinoma</u></p> <p><u>Sonongbua, J., Siritungyong, S., Thongchot, S., ... Wongkham, S., Thuwajit, C.</u> <u>Oncology Reports, 43(4), pp. 1147–1158</u> 2020</p>
16	<p><u>Characterization and safety evaluation of partially purified bacteriocin produced by Escherichia coli E isolated from fermented pineapple Ananas comosus (L.) Merr</u></p> <p><u>Le, V.T., Leelakriangsak, M., Lee, S.W., ... Utispan, K., Koontongkaew, S.</u> <u>Brazilian Journal of Microbiology, 50(1), pp. 33–42</u> 2019</p>
17	<p><u>Porphyromonas gingivalis lipopolysaccharide-induced macrophages modulate proliferation and invasion of head and neck cancer cell lines</u></p> <p><u>Utispan, K., Pugdee, K., Koontongkaew, S.</u> <u>Biomedicine and Pharmacotherapy, 101, pp. 988–995</u> 2018</p>
18	<p><u>Cytotoxic activity of propolis extracts from the stingless bee trigona sirindhornae against primary and metastatic head and neck cancer cell lines</u></p> <p><u>Utispan, K., Chitkul, B., Koontongkaew, S.</u> <u>Asian Pacific Journal of Cancer Prevention, 18(4), pp. 1051–1055</u> 2017</p>
19	<p><u>Fibroblasts and macrophages: Key players in the head and neck cancer microenvironment</u></p> <p><u>Utispan, K., Koontongkaew, S.</u> <u>Journal of Oral Biosciences, 59(1), pp. 23–30</u> 2017</p>
20	<p><u>A randomized controlled study comparing the efficacy of nasal saline irrigation devices in children with acute rhinosinusitis</u></p> <p><u>Satdhabudha, A., Utispan, K., Monthanapisut, P., Poachannukoon, O.</u></p>

	<u>Asian Pacific Journal of Allergy and Immunology</u> , 35(2), pp. 102–107 2017
21	<u>Propolis extracted from the stingless bee <i>Trigona sirindhornae</i> Inhibited <i>S. mutans</i> activity in vitro</u> <u>Utispan, K., Chitkul, B., Monthanapisut, P., ... Pugdee, K., Koontongkaew, S.</u> <u>Oral Health and Preventive Dentistry</u> , 15(3), pp. 279–284 2017
22	<u>Macroautophagy is essential for killing of intracellular <i>Burkholderia pseudomallei</i> in human neutrophils</u> <u>Rinchai, D., Riyapa, D., Buddhisa, S., ... Ato, M., Lertmemongkolchai, G.</u> <u>Autophagy</u> , 11(5), pp. 748–755 2015
23	<u>Glibenclamide reduces pro-inflammatory cytokine production by neutrophils of diabetes patients in response to bacterial infection</u> <u>Kewcharoenwong, C., Rinchai, D., Utispan, K., ... Ato, M., Lertmemongkolchai, G.</u> <u>Scientific Reports</u> , 3, 3363 2013
24	<u>Periostin activates integrin $\alpha 5\beta 1$ through a PI3K/AKT-dependent, pathway in invasion of cholangiocarcinoma</u> <u>Utispan, K., Sonongbua, J., Thuwajit, P., ... Wongkham, S., Thuwajit, C.</u> <u>International Journal of Oncology</u> , 41(3), pp. 1110–1118 2012
25	<u>Gene expression profiling of cholangiocarcinoma-derived fibroblast reveals alterations related to tumor progression and indicates periostin as a poor prognostic marker</u> <u>Utispan, K., Thuwajit, P., Abiko, Y., ... Chau-in, S., Thuwajit, C.</u> <u>Molecular Cancer</u> , 9, 13 2010

TCI

1	Inflammatory responses in Porphyromonas gingivalis lipopolysaccharide activated MCF-7 breast cancer cells <i>Kamolpann Pugdee, Kusumawadee Utispan, Sittichai Koontongkaew</i> <u>Thai Journal of Oral and Maxillofacial Surgery</u> Volume 33, Issue 2, 2019, pp. 118-125
2	A randomized controlled study comparing the efficacy of nasal saline irrigation devices in children with acute rhinosinusitis

	<p><i>Araya Satdhabudha, Kusumawadee Utispan, Paopanga Monthanapisut, Orapan Poachannukoon</i> <u>Asian Pacific Journal of Allergy and Immunology</u> Volume 35, Issue 2, 2017, pp. 102-107</p>
3	<p>Porphyromonas gingivalis lipopolysaccharide (LPS) activated monocyte increases cell proliferation and invasion of head and neck cancer cells</p> <p><i>Kamolparn Pugdee, Arnit Toneluck, Paopanga Monthanapisut, Kusumawadee Utispan, Sittichai Koontongkaew</i></p> <p><u>Thai Journal of Oral and Maxillofacial Surgery</u> Volume 30, Issue 1, 2016, pp. 50-58</p>
4	<p>Roles of microenvironment in oral cancer</p> <p><i>Kusumawadee Utispan, Kamolparn Pugdee</i></p> <p><u>Thai Journal of Oral and Maxillofacial Surgery</u> Volume 28, Issue 2, 2014, pp. 104-116</p>
5	<p>The linkage between periodontitis and cancer</p> <p><i>Kamolparn Pugdee, Kusumawadee Utispan</i></p> <p><u>Thai Journal of Oral and Maxillofacial Surgery</u> Volume 28, Issue 1, 2014, pp. 40-48</p>