



CURRICULUM VITAE

Name: Salunya Tancharoen
Position title: Dr.
Gender: Female
Nationality: Thai
University Address: Department of Pharmacology, Faculty of Dentistry, Mahidol University, 6 Yotee Rd., Rajthevee, Bangkok, Thailand 10400
Tel: +66-2200-7833 ext 11
Fax: +66-2200-7832
E-mail: salunya.tan@mahidol.edu

Professional experience and research interested:

- Oral biology & Immunology
- Restorative Dentistry and Endodontology
- Oral health products & Innovation

Professional Appointments:

| | | |
|--------------|---------------------|---|
| 2014-Present | Associate professor | Department of Pharmacology, Faculty of Dentistry, Mahidol University |
| 2013-Present | Head | Department of Pharmacology, Faculty of Dentistry, Mahidol University |
| 2011-2013 | Deputy Head | Department of Pharmacology, Faculty of Dentistry, Mahidol University |
| 2011-2014 | Assistant Professor | Department of Pharmacology, Faculty of Dentistry, Mahidol University |
| 1999-2010 | Lecturer | Department of Pharmacology, Faculty of Dentistry, Mahidol University |

Education :

- 2008 - 2009 Post-doctoral fellows (Autoimmunity, Oral Biology)
- Tokyo Medical and Dental University, Japan
- Kagoshima University Graduate School of Medical & Dental Science, Japan
- 2001 - 2005 Doctor of Philosophy (Restorative Dentistry and Endodontics),
Kagoshima University Graduate School of Medical & Dental Science, Japan)
- 1993 - 1999 Doctor of Dental Surgery (DDS, 1st class honor, gold medal award),
Faculty of Dentistry, Mahidol University, Bangkok, Thailand
- 1990 - 1993 Science– Math program, Trium Udom Suksa School, Phayathai, Bangkok, Thailand

Major Publications:

1. Srihirun S, Mathithiphark S, Phruksaniyom C, Kongphanich P, Inthanop W, Sriwantana T, **Tancharoen S**, Sibmooh N, Vivithanaporn P. Hydroxychavicol inhibits in vitro osteoclastogenesis via the suppression of NF- κ B signaling pathway. Accepted manuscript in Biomolecules and Therapeutics
2. Leenutaphong P, **Tancharoen S**, Kiyoshi K, Nararatwanchai T, Phruksaniyom C, Chaichalotornkul S. Downregulation of tumor promotor genes in *Oryza Sativa* Linn.-induced antiproliferative activity of human squamous carcinoma cells. *Asian Pac J Cancer Prev.* 2023 Jul 1;24(7):2431-38. **(Corresponding Authors)**
3. Poommarapan K, Rummaneethorn P, Srisubat A, Suwanpidokkul N, Leenutaphong P, et al and **Tancharoen S**. Gene Profiling of Cannabis-Sativa-mediated Apoptosis in Human Melanoma Cells. *Anticancer research* 2023 Mar;43(3):1221-1237. doi: 10.21873/anticanres.16269. **(Corresponding author)**
4. Leenutaphong P, **Tancharoen S**, Nararatwanchai T, Phruksaniyom C, Sarikaphuti A, Palungwachira P, Chaichalotornkul S. Induction of Human Oral Squamous Carcinoma Apoptosis by *Derris scandens* Benth. and *Elephantopus scaber* Linn. Extracts. *Natural Product Communications* 2022 doi: 10.1177/1934578X221107970. **(Corresponding author)**

5. Takada S, Setoyama K, Norimatsu K, Otsuka S, Nakanishi K, Akira Tani A, Nakakogawa T, Matsuzaki R, Matsuoka T, Sakakima H, **Tancharoen S**, Maruyama I, Tanaka E, Kikuchi K, Hisaaki Uchikado H. E8002 reduces adhesion formation and improves joint mobility in a rat model of knee arthrofibrosis. *Int J Mol Sci*. 2022 Jan 22;23(3):1239. doi: 10.3390/ijms23031239.
6. Otsuka, S., Setoyama, K., Takada, S. et al. Preconditioning Exercise in Rats Attenuates Early Brain Injury Resulting from Subarachnoid Hemorrhage by Reducing Oxidative Stress, Inflammation, and Neuronal Apoptosis. *Mol Neurobiol* 2021 Aug 9. doi: 10.1007/s12035-021-02506-7.
7. Nakatomi K, Ueno H, Ishikawa Y, Salim RC, Mori Y, Kanemoto I, **Tancharoen S**, Kikuchi K, Miura N, Omori T, Okuda-Ashitaka E, Matsumura K, Imaizumi H, Motomiya Y, Maruyama I, Kawahara KI. TLR4/MD-2 is a receptor for extracellular nucleophosmin 1. *Biomed Rep*. 2021;14(2). doi.org/10.3892/br.2020.1397
8. Eawsakul K, **Tancharoen S**, Nasongkla N. Combination of dip coating of BMP-2 and spray coating of PLGA on dental implants for osseointegration. *J Drug Deliv Sci Technol* 2021;61. doi.org/10.1016/j.jddst.2020.102296.
9. Buayaem T, **Tancharoen S**, Chotwattanakulchai N. A Nurse's Role in Oral Hygiene Care to Reduce Risks of Preterm Labor. *Sriraj Med Bull* 2021;14(1).
10. Kikuchi K, Setoyama K, Takada S, Otsuka S, Nakanishi K, Norimatsu K, Tani A, Sakakima H, Kawahara KI, Hosokawa K, Kiyama R, Sumizono M, **Tancharoen S**, Maruyama I, Hattori G, Morioka M, Tanaka E and Uchikado H. E8002 Inhibits Peripheral Nerve Adhesion by Enhancing Fibrinolysis of L-Ascorbic Acid in a Rat Sciatic Nerve Model. *Int. J. Mol. Sci.* 2020;21(11),3972:doi.org/ 10.3390/ijms21113972.
11. Thaichinda S, **Tancharoen S**, Kanekura T, Higashi Y, Dararat P, Kikuchi K and Nararatwanchai T. Pinus maritima Extract Induces Apoptosis in Human Malignant Melanoma Cells via ROS/Caspase-3 Signaling. *Nat. Prod. Commun.* 2020;15(5):1-10 (Corresponding author)
12. Wongsuwan N, Dwivedi A, **Tancharoen S**, Nasongkla N. Development of dental implant coating with minocycline-loaded niosome for antibacterial application. *J of Drug Delivery Sci and Tech.* 31 January 2020, Article ID 101555. doi.org/10.1016/j.jddst.2020.101555.

13. Palungwachira P, **Tancharoen S**, Dararat P, Nararatwanchai T. Anthocyanins Isolated From *Oryza sativa* L. Protect Dermal Fibroblasts Against Hydrogen Peroxide-induced Cell Death. *J of Nat Sci Bio & Med.* 2019; 11 (1): 45-54.
(Corresponding author)
14. Palungwachira P, **Tancharoen S**, Phruksaniyom C, Klungsaeng S, Srichan R, Kikuchi K, Nararatwanchai T. Antioxidant and Anti-Inflammatory Properties of Anthocyanins Extracted from *Oryza sativa* L. in Primary Dermal Fibroblasts. *Oxidative Medicine and Cellular Longevity.* 2019; Article ID 2089817. doi.org/10.1155/2019/2089817. (Corresponding author)
15. **Tancharoen S**, Shakya P, Narkpinit S, Dararat P, Kikuchi K. Anthocyanins extracted from *Oryza sativa* L. prevent fluorouracil-induced nuclear factor-kB activation in oral mucositis: in vitro and in vivo studies. *Int J Mol Sci.* 2018;19(10):2981. doi:10.3390/ijms19102981. (Corresponding author)
16. Kikuchi K, Setoyama K, Tanaka E, Otsuka S, Terashi T, Nakanish K, Takada S, Sakakima H, Ampawong S, Kawahara K, Nagasato T, Hosokawa K, Harada Y, Yamamoto M, Kamikokuryo C, Kiyama R, Morioka M, Ito T, Maruyama I, **Tancharoen S**. Uric acid enhances alteplase-mediated thrombolysis as an antioxidant. *Sci Rep.* 2018; 8: 15844; doi: 10.1038/s41598-018-34220-1. (Corresponding author)
17. Kikuchi K, Setoyama K, Terashi T, Sumizono M, **Tancharoen S**, Otsuka S, et al. Application of a Novel Anti-Adhesive Membrane, E8002, in a Rat Laminectomy Model. *Int. J. Mol. Sci.* 2018, 19, 1513; doi:10.3390/ijms19051513.
18. Yanarojana M, Nararatwanchai T, Thairat S, **Tancharoen S**. Antiproliferative activity and induction of apoptosis in human melanoma cells by *Houttuynia cordata* Thunb extract. *Anticancer Res.* 2017;37(12):6619-28. doi:10.21873/anticancerres.12119. (Corresponding author)
19. Kikuchi K, Setoyama K, Kawahara K, Nagasato T, Terashi T, **Tancharoen S**, et al. Edaravone, a synthetic free radical scavenger enhances alteplase-mediated thrombolysis. *Oxid Med Cell Longev.* 2017:1-14. doi:10.1155/2017/6873281.
20. Tanaka K, **Tancharoen S**, Motomiya Y, Motomiya Y, Oyama Y, Yamakuchi M, et al. Decreased expression of thrombomodulin in endothelial cells by fibroblast growth factor-23/α-Klotho. *Ther Apher Dial.* 2017;21(4):395-404.

21. **Tancharoen S**, Gando S, Binita S, Nagasato T, Kikuchi K, Nawa Y, et al. HMGB1 promotes intraoral palatal wound healing through RAGE-dependent mechanisms. *Int J Mol Sci.* 2016;17(11):1-17.
22. Kikuchi K, **Tancharoen S**, Murai Y, Tanaka E. Future optimal dosing regimens for thrombolysis in acute stroke. *Biochem Anal Biochem.* 2016: 1- 3. doi:10.4172/2161-1009.1000244.
23. Chaichalotornkul S, Nararatwanchai T, Narkpinit S, Dararat P, Kikuchi K, et al. **Tancharoen S**. Secondhand smoke exposure-induced nucleocytoplasmic shuttling of HMGB1 in a rat premature skin aging model. *Biochemical and Biophysical Research Communications.* 2015;456(1):92-7. (Corresponding author)
24. **Tancharoen S**, Matsuyama T, Kawahara K, Tanaka K, Lee LJ, Machigashira M, et al. Cleavage of host cytokeratin-6 by lysine-specific gingipain induces gingival inflammation in periodontitis patients. *Plos One.* 2015;10(2):1-21. doi:10.1371/journal.pone.0117775.
25. Mirchandani B, Wonglamsam A, Tancharoen S, Srithavaj T. Effect of opacifier and pigments on hardness of maxillofacial silicones. *M Dent J .* 2015;35:231-5.
26. Kikuchi K, Tanaka E, Murai Y, **Tancharoen S**. Clinical trials in acute ischemic stroke. *CNS Drugs.* 2014;28:929-38. (Corresponding author)
27. **Tancharoen S**, Tengrungsun T, Suddhasthira T, Kikuchi K, Vechvongvan N, Tokuda M, et al. Overexpression of receptor for advanced glycation end products and High-Mobility Group Box 1 in human dental pulp inflammation. *Mediators of Inflammation.* 2014:1-13 (Corresponding author)
28. Sarikaphuti A, Nararatwanchai T, Hashiguchi T, Ito T, Thaworanunta S, **Tancharoen S**, et al. Preventive effects of Morus alba L. anthocyanins on diabetes in Zucker diabetic fatty rats. *Experimental and Therapeutic Medicine.* 2013;6(3):689-95. (Corresponding author)
29. Kikuchi K, **Tancharoen S**, Takeshige N, Yoshitomi M, Morioka M, Murai Y, et al. The efficacy of edaravone (radicut), a free radical scavenger, for cardiovascular disease. *Int J Mol Sci.* 2013;14(7):13909-30.

30. Kikuchi K, Kawahara K, Mirura N, Ito T, Morimoto Y, **Tancharoen S**, et al. Secondary prevention of stroke: Pleiotropic effects of optimal oral pharmacotherapy (Review). *Experimental and Therapeutic Medicine*. 2012;4:3-7.
31. Chaichalotornkul S, Suvitayavat W, Saiwichai T, Sangalangarn V, Nawa Y, et al. **Tancharoen S**. Inhibition of HMGB1 translocation by green tea extract in rats exposed to environmental tobacco smoke. *Environment Asia*. 2012;5(1):70-6.
(Corresponding author)
32. Kikuchi K, Kawahara K, Uchikado H, Miyagi N, Kuramoto T, **Tancharoen S**, et al. Effect of edaravone on HMGB1 in neuronal cells under ischemic conditions. *Neurotraumatology*. 2011;34:225-7.
33. Kikuchi K, Miura N, Morimoto Y, Ito T, **Tancharoen S**, Miyata K, et al. Beneficial effects of the free radical scavenger edaravone (radicut) in neurologic diseases. *J Neurol Neurophysiol*. 2011 special issue 1:1-6. doi:10.4172/2155-9562.S1-001.
34. Kikuchi K, Uchikado H, Miura N, Morimoto Y, Ito T, **Tancharoen S**, et al. HMGB1 as a therapeutic target in spinal cord injury: A hypothesis for novel therapy development. *Experimental and Therapeutic Medicine*. 2011;2(5):767-70.
35. Kikuchi K, Kawahara K, Uchikado H, Miyagi N, Kuramoto T, **Tancharoen S**, et al. Potential of edaravone for neuroprotection in neurologic diseases that do not involve cerebral infarction. *Experimental and Therapeutic Medicine*. 2011;2(5):771-5.
36. Kikuchi K, Uchikado H, Miyagi N, Morimoto Y, Ito T, **Tancharoen S**, et al. Beyond neurological disease: New targets for edaravone. *International journal of molecular medicine*. 2011;28(6):899-906.
37. Kikuchi K, Kawahara K, Miyagi N, Uchikado H, Kuramoto T, **Tancharoen S**, et al. Edaravone: A new therapeutic approach for the treatment of acute stroke. *Med Hypotheses*. 2010;75(6):583-5.
38. Meng X, **Tancharoen S**, Kawahara KI, Nawa Y, Taniguchi S, Hashiguchi T, et al. 1,5-Anhydroglucitol attenuates cytokine release and protects mice with type 2 diabetes from inflammatory reactions. *Int J Immunopathol Pharmacol*. 2010;23(1):105-19.
39. Shrestha B, Hashiguchi T, Ito T, Miura N, Takenouchi K, **Tancharoen S**, et al. B cell-derived vascular endothelial growth factor a promotes lymphangiogenesis and

- high endothelial venule expansion in lymph nodes. *J Immunol.* 2010;184(9):4819-26.
40. Kozono S, Matsuyama T, Biwasa KK, Kawahara K, Nakajima Y, **Tancharoen S**, et al. Involvement of the endocannabinoid system in periodontal healing. *Biochem Biophys Res Commun.* 2010;394(4):928-33.
41. Oyama Y, Hashiguchi T, Taniguchi N, **Tancharoen S**, Uchimura T, Biswas KK, et al. High-mobility group box-1 protein promotes granulomatous nephritis in adenine-induced nephropathy. *Lab Invest.* 2010;90(6):853-66.
42. Saiwichai T, Sangalangarn V, Kawahara K, Oyama Y, Chaichalotornkul S, **Tancharoen S**, et al. Green tea extract supplement inhibition of HMGB1 release in rats exposed to cigarette smoke. *Southeast Asian J. of Tropical Medicine&Public health.* 2010;41(1):250-8. (Corresponding author)
43. Kikuchi K, Kawahara KI, Biswas KK, Ito T, **Tancharoen S**, Shiomi N, et al. HMGB1: A new marker for estimation of the postmortem interval. *Experimental & Therapeutic Medicine;* 2010;1(1):109-11.
44. Kikuchi K, **Tancharoen S**, Matsuda F, Biswas KK, Ito T, Morimoto Y, et al. Edaravone attenuates cerebral ischemic injury by suppressing aquaporin-4. *Biochem Biophys Res Commun.* 2009;390(4):1121-5.
45. Nawa Y, Kawahara K, **Tancharoen S**, Meng X, Sameshima H, Ito T, et al. Nucleophosmin may act as an alarmin: implications for severe sepsis. *J Leukoc Biol.* 2009; 86(3):645-53.
46. Meng X, Kawahara K, Nawa Y, Miura N, Shrestha B, **Tancharoen S**, et al. 1,5-Anhydro-D-fructose attenuates lipopolysaccharide-induced cytokine release via suppression of NF-kappaB p65 phosphorylation. *Biochem Biophys Res Commun.* 2009;380(2):343-8.
47. Kikuchi K, Kawahara K, **Tancharoen S**, Matsuda F, Morimoto Y, Ito T, et al. The free radical scavenger edaravone rescues rats from cerebral infarction by attenuating the release of high-mobility group box-1 in neuronal cells. *J of Pharmacological and Experimental Therapeutics.* 2009;329(3):865-74.
48. Kikuchi K, Kawahara K, Biswas KK, Ito T, **Tancharoen S**, Morimoto Y, et al. Minocycline attenuates both OGD-induced HMGB1 release and HMGB1-induced

- cell death in ischemic neuronal injury in PC12 cells. *Biochem Biophys Res Commun.* 2009;385(2):132-6.
49. Kawahara K, Hashiguchi T, Masuda K, Saniabadi AR, Kikuchi K, **Tancharoen S**, et al. Mechanism of HMGB1 release inhibition from RAW264.7 cells by oleanolic acid in *Prunus mume* Sieb. et Zucc. *Int J Mol Med.* 2009;23(5):615-20.
50. Piamnoppakun J, **Tancharoen S**. Exposure to secondhand smoke among first-year dental students. *Mahidol Dental Journal.* 2008;28(3):349-56. (**Corresponding author**)
51. Iwata M, Kawahara K, Kawabata H, Ito T, Mera K, **Tancharoen S**, et al. Thrombomodulin exerts cytoprotective effect on low-dose UVB-irradiated HaCaT cells. *Biochem Biophys Res Commun.* 2008;377(2):642-7.
52. Kawahara K, Hashiguchi T, Kikuchi K, **Tancharoen S**, Miura N, Ito T, et al. Induction of high mobility group box 1 release from serotonin-stimulated human umbilical vein endothelial cells. *Int J Mol Med.* 2008;22(5):639-44.
53. **Tancharoen S**, Matsuyama T, Abeyama K, Matsushita K, Kawahara K, Sangalungkarn V, et al. The role of water channel aquaporin 3 in the mechanism of TNF-alpha-mediated proinflammatory events: Implication in periodontal inflammation. *J Cell Physiol.* 2008;217(2):338-49.
54. Kawahara K, Biswas KK, Unoshima M, Ito T, Kikuchi K, **Tancharoen S**, et al. C-reactive protein induces high-mobility group box-1 protein release through activation of p38MAPK in macrophage RAW264.7 cells. *Cardiovasc Pathol.* 2008;17(3):129-38.
55. Morimoto Y, Kawahara KI, **Tancharoen S**, Kikuchi K, Matsuyama T, Hashiguchi T, et al. Tumor necrosis factor-alpha stimulates gingival epithelial cells to release high mobility-group box 1. *J. Periodontal Res.* 2008;43(1):76-83.
56. Kawahara K, **Tancharoen S**, Hashiguchi T, Unoshima M, Ito T, Kikuji K, et al. Inhibition of HMGB1 by deep ocean water attenuates endotoxin-induced sepsis. *Med Hypotheses.* 2007;68(6):1429-30.
57. Matsushita K, Imamura T, **Tancharoen S**, Tatsuyama S, Tomikawa M, Travis J, et al. Selective inhibition of *Porphyromonas gingivalis* growth by a factor Xa inhibitor, DX-9065a. *J Periodontal Res.* 2006;41(3):171-6.

58. Matsushita K, Imamura T, Tomikawa M, **Tanchareon S**, Tatsuyama S, Maruyama I. DX-9065a inhibits proinflammatory events induced by gingipains and factor Xa. *J. Periodontal Res.* 2006;41(2):148-56.
59. Biswas KK, **Tanchareon S**, Sarker KP, Kawahara K, Hashiguchi T, Maruyama I. Cepharanthine triggers apoptosis in a human hepatocellular carcinoma cell line (HuH-7) through the activation of JNK1/2 and the downregulation of Akt. *FEBS Lett.* 2006;580(2):703-10.
60. **Tanchareon S**, Sarker KP, Imamura T, Biswas KK, Matsushita K, Tatsuyama S, et al. Neuropeptide release from dental pulp cells by RgpB via proteinase-activated receptor-2 signaling. *J. Immunology.* 2005;174(9):5796-804.
61. Sangalungkarn V, **Tanchareon S**, Thiradirok S, Jirajariyavej B, Krivapun P. The comparative study of physical stability test of four experimental phosphoric acid etching gels and Scotchbond™ etching gel. *Mahidol Dent. J.* 2004;24(1):29-33.
62. **Tanchareon S**, Sangalungkarn V, Apai W, Tainchai N. SEM study of the etching effect of two experimental phosphoric acid etching gels as compared to Scotchbond™ etching gel on human dentin. *Mahidol Dent. J.* 2004;24(1):35-41.
63. **Tanchareon S**, Sangalungkarn V, Apai W, Jirajariyavej B. The comparative study of shear bond strength of two experimental phosphoric acid etching gels and Scotchbond™ etching gel on human dentin. *Mahidol Dent. J.* 2004;24(1):43-50.

Publication index values (Scopus, 7 October 2019)

- Journal citation index = 789
- H index value = 18

Publication index values (Scopus, 23 August 2023)

- Journal citation index = 1300
- H index value = 22

Inventions:

International patent

- PERIODONTAL- DISEASE- SPECIFIC PEPTIDE, AND TREATMENT AND DIAGNOSIS OF PERIODONTAL DISEASE USING SAME” United States Patent and Trademark Office (USPTO) Publication number: 20130086703. International patent number EP2548888 A15.

National patent

- Antioxidant dietary supplement derived from rice extracts, and the production process. Submission number 1501005281 (September 10, 2015)
- Jaw exercise device. Submission number 1801003834 (June 26, 2018)

Pretty patent

- Moisturizing mouth lozenge. Submission number 2303001157 (May 29, 2023)
- Gentle formula for reducing Intraoral viral load. Submission number 2203000619 (March 8, 2022)
- Gargling agents in reducing Intraoral viral load. Submission number 2103000028 (January 8, 2021)
- Oral moisturizing jelly products. Submission number 1803000228 (January 26, 2018)
- Black rice extract mouthwash. Submission number 1803001570 (July 13, 2018)
- *Camellia sinensis* extracts, a locally delivered gel for periodontitis treatment. Pretty patent number 10080
- MU Dental Etching Gel” Pretty patent number 1995
- *Clinacanthus nutans* gel for oral wound healing. Submission number 1703000535

Honors and Achievements:

- | | |
|------|--|
| 2023 | <i>Award for the main inventor with the highest patent and petty patent, Faculty of Dentistry, Mahidol University</i> |
| 2023 | <i>Award for Academic Person with Patent and Petty Patent and the Most Commercially Issued, Faculty of Dentistry, Mahidol University</i> |
| 2023 | <i>Outstanding Personnel Award Faculty of Dentistry, Mahidol</i> |

University: University employees who have worked for more than 20 years

- 2023 *Outstanding Researcher Award, Researcher with the highest number of citations for articles*, Faculty of Dentistry, Mahidol University
- 2022 *Mahidol University Outstanding Specializing in Invention and Innovation 2021*, Mahidol University
- 2022 *Outstanding Researcher Award, Researcher with the highest number of citations for articles*, Faculty of Dentistry, Mahidol University
- 2022 **AGRI PLUS AWARDS**, Non-food product, Second Runner-up, Department of Foreign Trade Promotion, Ministry of Commerce
- 2021 *Outstanding Researcher Award, Researcher with the highest h-index* Faculty of Dentistry, Mahidol University
- 2021 *Outstanding Researcher Award, Researcher with the highest number of citations for articles*, Faculty of Dentistry, Mahidol University
- 2020 *Outstanding Researcher Award, Researcher with the highest number of citations for articles*, Faculty of Dentistry, Mahidol University
- 2020 *The 26th Science & Technology Award*, Thailand Toray Science Foundation
- 2019 *Rice Innovation Awards 2019*, Thai Rice Foundation, Thailand
- 2019 *Outstanding Researcher Award, Researcher with the highest number of citations for articles* Faculty of Dentistry, Mahidol University
- 2019 *Outstanding Researcher Award, Researcher with the highest h-index* Faculty of Dentistry, Mahidol University
- 2018 *Outstanding Researcher Award, Researcher with the highest number of citations for articles* Faculty of Dentistry, Mahidol University
- 2018 *Outstanding Researcher Award, Researcher with the highest h-index* Faculty of Dentistry, Mahidol University
- 2016 *Outstanding Researcher Award, Researcher with the highest h-index* Faculty of Dentistry, Mahidol University

- 2014 *Miss Brand Ambassador of Faculty of Dentistry*, Mahidol University
- 2013 *Woman in Science award L'Oreal Thailand FWIS*, The L'Oréal Foundation Thailand and Thai National Commission for UNESCO
- 2013 *International travel award*, The 72nd Annual Meeting of the Japanese Cancer Association, Yokohama, Japan
- 2011 *Oral competition award*, Undergraduate project research, Thai Dental Association, Thailand
- 2010 *Scholarship for special seminar of dental science*, IWADARE foundation, Japan
- 2008-2009 *Post-doctoral Research Fellowship Recipient*, Japan Society for the Promotion of Science (JSPS), Japan
- 2008 *Young Investigator Award*, The IXth World Conference on Clinical Pharmacology and Therapeutics - CPT2008, Canada
- 2007 *Short-term Research Fellowship Recipient*, Japan Association for the Advancement of Medical Equipment, Japan
- 2005 *Young Investigator Award*, World Congress of Inflammation, Melbourne, Australia.
- 2005 *Young Investigator Award*, International Association of Dental Research (IADR) Lion Dental Research, Baltimore, USA.
- 2004 *Young Investigator Award*, Japanese Society for Immunology (JSI), Hokkaido, Japan.
- 2004 *International Travel Award*, 7th. Workshop & Advanced Training Course in Immunology, Federation of Immunological Societies of Asia-Oceania (FIMSA) FIMSA/ASI, and 8th. HLDA/ASI Conference, Adelaide, Australia.
- 2004 *Travel award*, close runner-up, International Association of Dental Research Southeast Asian division (IADR/SEA), Koh Samui, Thailand.
- 2004 *Travel Award*, Highly commended of Pulp Biology Group (PBG); International Association of Dental Research (IADR), Hawaii, USA.
- 2000 *Young Investigator Fellowship*, Workshop and joint research on molecular biology technology in biological reconstructive dentistry and medicine. Society for the Promotion of Science (JSPS) Scholarship,

Okayama, Japan

Research grants:

| Sources | Year | Number |
|---|-----------|--------|
| 1) Program Management Unit Competitiveness (PMUC) | 2023-2025 | 1 |
| 2) Faculty of Dentistry, Mahidol University | 2019-2022 | 1 |
| | 2019-2017 | 2 |
| | 2013-2011 | 1 |
| 3) National Innovation Agency, Thailand | 2020-2023 | 3 |
| 4) Mahidol University Innovation Development Fund Project and entrepreneurs to go commercial | 2022-2023 | 1 |
| 5) Center of Excellence on Medical Biotechnology: CEMB | 2019-2018 | 1 |
| 6) Thailand Science Research and Innovation | 2019-2018 | 1 |
| The Thailand Research Fund (TRF) | 2018-2017 | 1 |
| 7) Agricultural Research Development Agency (Public Organization) | 2019-2017 | 1 |
| 8) Vejdusit Foundation under the Royal patronage of H.R.H. Princess Galyani Vadhana Kromma Luang Naradhiwas Rajanagarindr | 2013-2012 | 1 |
| 9) Private sector fundings | 2013-2011 | 3 |
| 10) Thai Health Promotion Foundation (ThaiHealth) | 2012-2010 | 2 |
| 11) National Research Council of Thailand (NRCT) | 2010-2007 | 3 |
| 12) World health organization (WHO) | 2009 | 1 |
| Total | | 18 |