

Curriculum Vitae

Dr. Watcharapong Mitsuwan

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1. Educational Background

Level	Program/Educational institution	Year of Graduation
Ph. D	Microbiology, Prince of Songkla University	2020
B.S.C	Microbiology (1 st Class Honor), Prince of Songkla University	2011

2. Work Experience in reverse chronological order (the Present or most recent position first)

Position & institution	Year
Research assistant under the project; Medicinal under-exploited Thai Native Plants against <i>Acanthamoeba</i> , <i>Leishmania donovani</i> and <i>Plasmodium falciparum</i> – Toward South East Asia Collaboration Initiative supported by The Royal Patronage of Her Royal Highness Princess Maha Chakri Sirindhorn (Grant No. 040226).	2019

3. Expertise

- 1) Pathogenic bacteria
- 2) Medicinal plant extracts
- 3) Proteomic and metabolomic analysis

4. Teaching Experience

YES NO

Institution	Faculty	Program	Course	Year
Walailak University	AVC	International	-Veterinary Microbiology -Veterinary Immunology	2020

5. Academic Achievement for 5 years ago

5.1 Research article

- Mitsuwan, W.**, Bunsuwansakul, C., Leonard, T.E., Laohaprapanon, S., Hounkong, K., Bunluepuech, K., Kaewjai, C., Mahboob, T., Samudi, C., Dhobi, M., Pereira, M.L., Nawaz, M., Wiart, C., and Nissapatorn, V. 2020. *Curcuma longa* ethanol extract and Curcumin inhibit the growth of *Acanthamoeba triangularis* trophozoites and cysts isolated from water reservoirs at Walailak University, Thailand. *Pathogens and Global Health*, 114(4):194-204. (Q2 ISI, Q1 Scopus, JIF=2.420)
- Mitsuwan, W.**, Sangkanu, S., Romyasamit, C., Kaewjai, C., Jimoh, T.O., Pereira, M.L., Siyadatpanah, A., Kayesth, S., Nawaz, M., Rahamatullah, M., Butler, M.S., Wilairatana, P., Wiart, C., Nissapatorn, V. 2020. *Curcuma longa* rhizome extract and Curcumin reduce the adhesion of *Acanthamoeba triangularis* trophozoites and cysts in polystyrene plastic surface and contact lens. *International Journal for Parasitology – Drugs and Drug Resistance*. 14: 218-229. (Q1 ISI and Scopus, JIF = 3.009)
- Mitsuwan, W.**, Sin, C., Keo, S., Sangkanu, S., Pereira, M.L., Jimoh, T.O., Salibay, C.C., Nawaz, M., Norouzi, R., Siyadatpanah, A., Wiart, C., Wilairatana, P., Mutombo, P.N., Nissapatorn, V. 2021. Potential anti-*Acanthamoeba* and anti-adhesion activities of *Annona muricata* and *Combretum trifoliatum* extracts and their synergistic effects in combination with chlorhexidine against *Acanthamoeba triangularis* trophozoites and cysts. *Heliyon*, 7(5): e06976. (Q2 Scopus, JIF=1.650)
- Mirzaei, F., Siyadatpanah, A., **Mitsuwan, W.**, Nissapatorn, V., Nilforoushzadeh, M., Maleksabet, A., Hosseini, M., Pereira, M.L., and Hejazi S.H. 2020. Butanol fraction of *Kelussia odoratissima* Mozaff inhibits the growth of *Leishmania major* promastigote and amastigote. *World's Veterinary Journal*, 10(2): 254-259.
- Moghimi, M., Bakhtiari, R., Mehrabadi, J.F., Jamshidi, N., Jamshidi, N., Siyadatpanah, A., **Mitsuwan, W.**, and Nissapatorn, V. 2020. Interaction of human oral cancer and the expression of virulence genes of dental pathogenic bacteria. *Microbial Pathogenesis*, 149:104464.
- Bafghi, A.F., Yavari, M.R., Mirzaei, F., Siyadatpanah, A., **Mitsuwan, W.**, Pereira, M.L., Nissapatorn, V., Norouzi, R., Hosseini, S.A. 2020. Prevalence and risk factors associated with *Cryptosporidium* infection in raw vegetables in Yazd District, Iran. *World's Veterinary Journal*, 10(3): 260-266.
- Das, G., Kim, D. Y., Fan, C., Gutierrez-Grijalva, E. P., Heredia, J.B., Nissapatorn, V., **Mitsuwan, W.**, Pereira, M.L., Nawaz, M., Siyadatpanah, A., Norouzi, R., Sawicka, B., Shin, H. S., Patra, J.K. 2020. Plants of the genus *Terminalia*: an insight on its biological potentials, pre-clinical and clinical studies. *Frontiers in Pharmacology*, 11: 561248.
- Sangkanu, S., **Mitsuwan, W.**, Mahabusarakam, W., Jimoh, T. O., Wilairatana, P., Girol, A. P.,

Verma, A. K., Pereira, M.L., Rahmatullah, M., Wiart, C., Siyadatpanah, A., Norouzi, R., Mutombo, P. N., Nissapatorn, V. 2021. Anti-*Acanthamoeba* synergistic effect of chlorhexidine and *Garcinia mangostana* extract or α -mangostin against *Acanthamoeba triangularis* trophozoite and cyst forms. *Scientific Reports*. 11(1):8053.

Boonhok, R., Sangkanu, S., Norouzi, R., Siyadatpanah, A., Mirzaei, F., **Mitsuwan, W.**, Charong, N., Wisessombat, S., Pereira, M.L., Rahmatullah, M., Wilairatana, P., Wiart, C., Tabo, H.A., Dolma, K.G., Nissapatorn, V. 2021. Amoebicidal activity of *Cassia angustifolia* extract and its effect on *Acanthamoeba triangularis* autophagy-related gene expression at transcriptional level. *Parasitology*. (Accepted)

5.2 Research article/ academic article presented in conferences

Mitsuwan, W., Sangkanu, S., Chuprom, J., Nissapatorn, V., Somjit, B. 2021. Effects of glutaraldehyde fixation on morphology of *Acanthamoeba triangularis* trophozoites using scanning electron microscopy. The 38th International Conference of the Microscopy Society of Thailand. 23th -26th March 2021, Burapha University, Chonburi, Thailand. (Full Proceeding)

6. Award and honor

Award and honor	Year
Outstanding poster presentation	2016
Mitsuwan, W. , Vorvuthikunchai, S.P., Jiménez-Munguía, I., Olaya-Abril, A., and Rodríguez-Ortega, M. 2016. Responses in the expression of proteins in <i>Streptococcus pneumoniae</i> treated with rhodomirtone as revealed by proteomic analysis. RGJ – Ph.D. Congress 17. 8 th -11 th June 2016, Jomtien Palm Beach Hotel and Resort, Pattaya, Chonburi, Thailand.	