



## RAKTHAM MEKTRIRAT

### รักษรม เมฆไตรรัตน์

#### ACADEMIC POSITION:

Assistant Professor

#### E-MAIL:

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#### CONTACT :

Division of Veterinary Preclinical Sciences  
Department of Veterinary Bioscience  
and Veterinary Public Health

#### RESEARCH INTERESTS:

- VETERINARY PHARMACOLOGY
- ANTIMICROBIAL RESISTANCE AND THERAPY
- VETERINARY INFECTIOUS DISEASES
- VETERINARY PHARMACEUTICAL DEVELOPMENT
- NATURAL PRODUCT AND HERBAL SCIENCES

#### EDUCATION

**University of Dundee and British Society for Antimicrobial Chemotherapy, United Kingdom**  
CERTIFICATE (ANTIMICROBIAL STEWARDSHIP)

**Kobe Pharmaceutical University, Kobe, Japan**  
POST-DOCTORAL FELLOW (IMMUNOPHARMACOLOGY)

**Chulalongkorn University, Bangkok, Thailand**  
PH.D. (BIOMEDICINAL CHEMISTRY)

**Chiang Mai University, Chiang Mai, Thailand**  
D.V.M.

#### MOST RECENT PUBLICATIONS :

1. Prompetch, T.; Chailorm, A.; Tiwananthagorn, S.; Buranapim, N.; Okonogi, S.; Kato, H.; Katip, W.; **Mektrirat, R.** Preclinical Evaluations of Modified Rice Hydrogel for Topical Ophthalmic Drug Delivery of Praziquantel on Avian Philophthalmiasis. *Pharmaceutics* 2021, 13, 952. <https://doi.org/10.3390/pharmaceutics13070952>.
2. Vannakovida, C.; Lampang, K.N.; Chuammitri, P.; Punyapornwithaya, V.; Kreausukon, K.; **Mektrirat, R.** Comparative occurrence and antibiogram of extended-spectrum  $\beta$ -lactamase-producing *Escherichia coli* among post-weaned calves and lactating cows from smallholder dairy farms in a parallel animal husbandry area, *Vet World*, 2021, 14(5): 1311-1318.
3. Saengsitthisak, B.; Punyapornwithaya, V.; Chaisri, W.; **Mektrirat, R.**; K. Bernard, J.; Pikulkaew, S. The current state of biosecurity and welfare of ornamental fish population in pet fish stores in Chiang Mai Province, Thailand. *Vet Integr Sci*, 2021, 19(2), 277-294.
4. Thitinarongwate, W.; **Mektrirat, R.**; Nilmool, W.; Khonsung, P.; Pikulkaew, S.; Okonogi, S.; Kuanusorn, P. Phytochemical and Safety Evaluations of Zingiber *ottensii* Valetton Essential Oil in Zebrafish Embryos and Rats. *Toxics* 2021, 9, 102.
5. Saengsitthisak, B.; Chaisri, W.; Punyapornwithaya, V.; **Mektrirat, R.**; Klayraung, S.; Bernard, J.K.; Pikulkaew, S. Occurrence and Antimicrobial Susceptibility Profiles of Multidrug-Resistant *Aeromonads* Isolated from Freshwater Ornamental Fish in Chiang Mai Province. *Pathogens*. 2020, 22;9(11):973.
6. Wangirapan, A.; Ayuthaya, S.I.N.; Katip, W.; Kasatpibal, N.; **Mektrirat, R.**; Anukool, U. Oberdorfer P. Serotypes and Vaccine Coverage of *Streptococcus Pneumoniae* Colonization in the Nasopharynx of Thai Children in Congested Areas in Chiang Mai. *Pathogens*. 2020 26, 9(12), 988.
7. **Mektrirat, R.**; Yano, T.; Okonogi, S.; Katip, W.; Pikulkaew, S. Phytochemical and Safety Evaluations of Volatile Terpenoids from Zingiber *cassumunar* Roxb. on Mature Carp Peripheral Blood Mononuclear Cells and Embryonic Zebrafish. *Molecules* 2020, 25, 613.
8. Wongsawan, K.; Chaisri, W.; Tangtrongsup, S.; **Mektrirat, R.** Bactericidal Effect of Clove Oil against Multidrug-Resistant *Streptococcus suis* Isolated from Human Patients and Slaughtered Pigs. *Pathogens* 2020, 9, 14.
9. Chotigarpa, R.; Na Lampang, K.; Pikulkaew, S.; Okonogi, S.; Silman, P.; **Mektrirat, R.** Antiseptic effect of natural teat dip containing lactic acid against mastitis-causing *Escherichia coli*. *Vet World*, 2019, 12(3): 397-401.
10. Katip, W.; Kanjanarat, P.; **Mektrirat, R.**; Meeyam, T.; Kasatpibal, N.; Anukool, U.; Oberdorfer, P. Using One Health Approach to Address Challenges of Antimicrobial Resistance and Inappropriate Use of Antibiotics Through Training of Future Health Workforces. *Southeast Asian J Trop Med Public Health*. 2018 49(1):36-42.
11. Chotigarpa, R.; Na Lampang, K.; Pikulkaew, S.; Okonogi, S.; Ajariyakhajorn, K.; **Mektrirat, R.** Inhibitory Effects and Killing Kinetics of Lactic Acid Rice Gel Against Pathogenic Bacteria Causing Bovine Mastitis. *Sci. Pharm.* 2018, 86(3), 29.
12. Somrup, L.; Warit, K.; **Mektrirat, R.**; Ampasavate, C.; Thitaram, N. Tramadol level in colostrum of bitch receiving intravenous tramadol after cesarean section. *Vet Integr Sci*, 2018, 16(1), 17-25.