



## SURACHAI PIKULKAEW

สุรชัย พิกุลแก้ว

### ACADEMIC POSITION:

Associate Professor

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### CONTACT :

Division of Aquatic Animal Clinic  
Department of Food Animal Clinic

### RESEARCH INTERESTS:

- AQUATIC ANIMAL MEDICINE
- VETERINARY MOLECULAR BIOLOGY AND VETERINARY PHARMACOLOGY

## EDUCATION

**Diplomate Thai Board of Veterinary Medicine (DTBVM),  
The Veterinary Council of Thailand**

**University of Padua, Padua, Italy**  
PH.D. (COMPARATIVE ENDOCRINOLOGY)

**Chulalongkorn University, Bangkok, Thailand**  
D.V.M.

## MOST RECENT PUBLICATIONS :

1. **Pikulkaew S\***, and Potibut P. 2021. Establishment of loop-mediated isothermal amplification assay for detection the parasitic ciliate *Ichthyophthirius multifiliis* in cyprinid fish. *Veterinary Integrative Sciences*. 19, 2; 227-294.
2. Thitirongwate W, Mektrirat R, Nimlamool W, Khonsung P, **Pikulkaew S**, Okonogi S, and Kunanusorn P. 2021. Phytochemical Characteristics and Safety Evaluations of *Zingiber officinale* Essential Oil in Zebrafish Embryos and Rats. *Toxics*. 9, 102; <https://doi.org/10.3390/toxics9050102>
3. Saengsitthisak B, Chaisri W, Punyapornwithaya V, Mektrirat R, Bernard JK, **Pikulkaew S\***. 2021. The current state of biosecurity and welfare of ornamental fish population in pet fish stores in Chiang Mai Province, Thailand. *Veterinary Integrative Sciences*. 19, 2; 227-294.
4. Kheawfu K, **Pikulkaew S**, Rades T, Müllertz A, Jørgensen LVG, Okonogi S. 2021. Design and optimization of self-nanoemulsifying drug delivery systems of clove oil for efficacy enhancement in fish anesthesia. *Journal of Drug Delivery Science and Technology*. (61)102241. <https://doi.org/10.1016/j.jddst.2020.102241>.
5. **Pikulkaew S.** \*, Khathawat Phatwan, Wijit Banlunara, Montira Intanon and John K. Bernard. 2020. First evidence of carp edema virus infection of koi *Cyprinus carpio* in Chiang Mai Province, Thailand. *Viruses*. 6, 12: E1400. doi: 10.3390/v12121400.
6. Saengsitthisak B, Chaisri W, Punyapornwithaya V, Mektrirat R, Klayraung S, Bernard JK, **Pikulkaew S\***. 2020. Occurrence and Antimicrobial Susceptibility Profiles of Multidrug-Resistant *Aeromonas* Isolated from Freshwater Ornamental Fish in Chiang Mai Province. *Pathogens*. 22, 9; E973. doi: 10.3390/pathogens9110973.
7. Pangprasit N, Srithanasuwan A, Suriyasathaporn W, **Pikulkaew S**, Bernard JK, Chaisri W. Antibacterial Activities of Acetic Acid against Major and Minor Pathogens Isolated from Mastitis in Dairy Cows. 2020. *Pathogens*. 19, 9; 961. doi: 10.3390/pathogens9110961.
8. Raktham Mektrirat, Terdsak Yano, Siriporn Okonogi, Wasan Katip, **Pikulkaew S\***. 2020. Phytochemical and Safety Evaluations of Volatile Terpenoids from *Zingiber Cassumunar Roxb.* On Mature Carp Peripheral Blood Mononuclear Cells and Embryonic Zebrafish. *Molecules* 2020, 25 (3), 613; <https://doi.org/10.3390/molecules25030613>.
9. Chupia, V., **Pikulkaew S.**, Ptaszynska, AA., Borsuk, G., Majewski, BM., Dong, Y., Thungrabeab, M., Mekchay, S., Krutmuang, P. 2019. Seasonal effect of *Nosema ceranae* in honeybee from Northern Thailand estimated by Loop-Mediated Isothermal Amplification (LAMP). *Asia Life Sciences*. 28(1): 181-190.
10. Chotigarpa, R., Lampang, KN., **Pikulkaew, S.**, Okonogi, S., Silman, P., Mektrirat, R. 2019. Antiseptic effect of natural teat dip containing lactic acid against mastitis-causing *Escherichia coli*. *Veterinary world*. 12(3); 397-401.
11. Chaisri W, Chaiyana W, **Pikulkaew S**, Okonogi S, Suriyasathaporn W. 2019. Enhancement of acaricide activity of citronella oil after microemulsion preparation. *Japanese Journal of Veterinary Research*. 67(1); 15-23.
12. Chotigarpa R, Na Lampang K, **Pikulkaew S**, Okonogi S, Ajariyakhajorn K, Mektrirat R. 2018. Inhibitory Effects and Killing Kinetics of Lactic Acid Rice Gel Against Pathogenic Bacteria Causing Bovine Mastitis. *Sci Pharm*. 16;86(3). pii: E29. doi: 10.3390/scipharm86030029.
13. Khumpirapang N, Chaichit S, Jiranusornkul S, **Pikulkaew S**, Müllertz A, Okonogi S. 2018. In vivo anesthetic effect and mechanism of action of active compounds from *Alpinia galanga* oil on *Cyprinus carpio* (koi carp). *Aquaculture* 496; 176-184.
14. Khumpirapang N, **Pikulkaew S\***, Anuchapreeda S, Okonogi S. 2018. Anesthetic activity of plant essential oils on *Cyprinus carpio* (koi carp). *Drug Discov Ther*. 19;12(1): 21-30. doi: 10.5582/ddt.2017.01068. Epub 2018 Feb 25.
15. Kheawfu K, **Pikulkaew S**, Rades T, Müllertz A, Okonogi S. 2018. Development and characterization of clove oil nanoemulsions and self-microemulsifying drug delivery systems. *Journal of Drug Delivery Science and Technology*. 46; 330-338.
16. Khumpirapang N, **Pikulkaew S**, Anuchapreeda S, Okonogi S. 2018. *Alpinia galanga* oil –A new natural source of fish anaesthetic. *Aquaculture Research*. 1-11. DOI: 10.1111/are.13609