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EDUCATION

Doctor of Philosophy (Molecular Biology and Bioinformatics)	Prince of Songkla University, Thailand
Master of Engineering (Computer Engineering)	King Mongkut's University of Technology Thonburi, Thailand
Bachelor of Engineering (Computer Engineering)	King Mongkut's University of Technology Thonburi, Thailand

RESEARCH INTERESTS

Bacterial genomics, Bioinformatics, Computational biology, Genomics

PUBLICATIONS

1. Phyto L.Y, Singkhamanan K., Laochareonsuk W., **Surachat K.**, Phutong N., Boonsanit K., Chiengkriwate P., Sangkhathat S. Fecal microbiome alterations in pediatric patients with short bowel syndrome receiving a rotating cycle of gastrointestinal prophylactic antibiotics. *Pediatric Surgery International*. 2021.
2. Paopradit P, Tansila N, **Surachat K**, Mittraparp-arthorn P. *Vibrio alginolyticus* influences quorum sensing-controlled phenotypes of acute hepatopancreatic necrosis disease-causing *Vibrio parahaemolyticus*. *PeerJ*. 2021.
3. Jingjit, N., Preeprem, S., Surachat, K., Mittraparp-Arthorn, P. Characterization and analysis of clustered regularly interspaced short palindromic repeats (Crisprs) in pandemic and non-pandemic *Vibrio parahaemolyticus* isolates from seafood sources. *Microorganisms*. 2021. 9(6).
4. Naknaen A, Suttinun O, **Surachat K**, Khan E, Pomwised R. A Novel Jumbo Phage PhiMa05 Inhibits Harmful *Microcystis* sp. *Frontiers in Microbiology*. 2021.
5. Nuidate T, Kuaphiriyakul A, **Surachat K**, Mittraparp-arthorn P. Induction and Genome Analysis of HY01, A Newly Reported Prophage from an Emerging Shrimp Pathogen *Vibrio campbellii*. *Microorganisms*. 2021; 9(2):400.
6. **Surachat K***, Kantachote D, Dechamag P, Wonglapsuwan M, Genomic insight into *Pediococcus acidilactici* HN9, a potential probiotic strain isolated from the traditional Thai-style fermented beef nhang. *Microorganisms*. 2021; 9(1).
7. Maung HMW, Palittapongarnpim P, Aung HL, **Surachat K**, Nyunt WW, Chongsuvivatwong V. Geno-spatial distribution of *Mycobacterium tuberculosis* and drug resistance profiles in myanmar-thai border area. *Tropical Medicine and Infectious Disease*. 2020;5(4).
8. **Surachat K**, Sangket U, Dechamag P, Chotigeat W. In silico analysis of protein toxin and bacteriocins from *Lactobacillus paracasei* SD1 genome and available online databases. *PLoS ONE*. 2017;12(8).

9. **Surachat K**, Wattanamatiphot W. A digital watermarking scheme using multi-watermark logos embedding and adaptive prediction algorithm. *International Journal of Applied Engineering Research*. 2015;10(3):5663-79.
10. **Surachat K**. A prototype of preliminary symptom analysis and follow-up systems for systemic lupus erythematosus patients. *Applied Mechanics and Materials*. 2014. p. 1430-5.
11. Mettripun N, **Surachat K**, Lhawchaiyapurk R, Amornraksar T, editors. Improved performance of image watermarking by removing luminance bias in YCbCr channel. *ECTI-CON 2010 - The 2010 ECTI International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology; 2010*.
12. **Surachat K**, Amornraksa T, editors. Pixel-wise based digital watermarking using mean filter in chrominance channel. *ISPACS 2009 - 2009 International Symposium on Intelligent Signal Processing and Communication Systems, Proceedings; 2009*.
13. **Surachat K**, Amornraksa T. Pixel-wise based digital watermarking in YCbCr color space. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*2009. p. 1293-9.
14. **Surachat K**, Amornraksa T, editors. Pixel-wise based digital watermarking using Weiner filter in chrominance channel. *2009 9th International Symposium on Communications and Information Technology, ISCIT 2009; 2009*.

RESEARCH GROUP

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