

## Asst. Prof. Massalin Nakphaichit

Biotechnology Department, Faculty of Agro-Industry, Kasetsart University

Tel: 66-2562-5090 email: fagimln@ku.ac.th

---

### Education

วิทยาศาสตร์บัณฑิต (สาขาเทคโนโลยีชีวภาพ) เกียรตินิยม อันดับสอง มหาวิทยาลัยเกษตรศาสตร์

วิทยาศาสตรมหาบัณฑิต (สาขาเทคโนโลยีชีวภาพ) มหาวิทยาลัยเทคโนโลยีสุรนารี

ปรัชญาดุษฎีบัณฑิต (สาขาเทคโนโลยีชีวภาพ) มหาวิทยาลัยเกษตรศาสตร์

### Expertise

The impact of probiotic, prebiotic and symbiotic on host health Gut Microbiota

### Selected Works

1. A. Kingkaw, M. Nakphaichit, N. Suratannon, S. Nitisinprasert, C. Wongoutong, P. Chatchatee, S. Krobthong, S. Charoenlappanit, S. Roytrakul and W. Vongsangnak. 2020. Analysis of the infant gut microbiome reveals metabolic functional roles associated with healthy infants and infants with atopic dermatitis using metaproteomics. *Peer J.* 8:e9988.
2. P. Udomsri, T. Pongsuwanporn, S. Nitisinprasert, and M. Nakphaichit. 2020. Synergistic activity of plant prebiotics and *Lactococcus lactis* KA-FF 1-4 to enhance vancomycin-resistant enterococci (VRE) growth inhibition. *International Food Research Journal.* 27(5): 934-940.
3. S. Plupjeen, W. Chawjiraphan, S. Charoensiddhi, S. Nitisinprasert, and M. Nakphaichit. 2020. *Lactococcus lactis* KA-FF 1-4 reduces vancomycin-resistant enterococci and impacts the human gut microbiome. *3Biotech.* 295: 1-11.
4. O. La-ongkham, M. Nakphaichit, J. Nakayama, S. Keawsompong and S. Nitisinprasert. 2020. Age-related changes in the gut microbiota and the core gut microbiome of healthy Thai humans. *3Biotech.* 276: 1-14.
5. N.T. Thanh Nguyen, M. Nakphaichit, I. Thaipisuttikul, A. Leelaporn, C. Tribuddhara, S. Nitisinprasert. 2019. Identification of the bacterial strain HM02-04 inhibiting vancomycin-resistant Enterococci growth and its antimicrobial substance characters for potential use as disinfectant solution. *Current Trends in Microbiology.* 13:55-66.

6. S. Sobanbua, S. Dolkittikul, M. Nakphaichit, S. Keawsompong, and S. Nitisinprasert. 2019. Antimicrobial peptide presenting potential strain-specific real time polymerase chain reaction assay for detecting the probiotic *Lactobacillus reuteri* KUB-AC5 in chicken intestine. *Poultry Science*. 99:526–535.
7. T. Jatuponwiphat, T. Namrak, A. Supataragul, S. Nitisinprasert, M. Nakphaichit and W. Vongsangnakd. 2019. Comparative genome analysis reveals metabolic traits associated with probiotics properties in *Lactobacillus reuteri* KUB-AC5. *Gene reports*. 17:1-9.
8. C. Jamyuang, P. Phoonlapdacha, N. Chongviriyaphan, W. Chanput, S. Nitisinprasert and M. Nakphaichit. 2019. Characterization and probiotic properties of *Lactobacilli* from human breast milk. *3biotech*. 398:1-11.
9. P. Jaichakan, D. T. H. Nhung, M. Nakphaichit and Wannaporn Klangpetch. 2019. The effect of alkali pretreatment and acid debranching on rice husk, rice straw, and defatted rice bran for xylobiose production by commercial xylanases. *Srinakharinwirot Journal of Science and Technology*. 22: 91-103.
10. M. Nakphaichit, S. Sobanbua, S. Siemuang, W. Vongsangnak, J. Nakayama and S. Nitisinprasert. 2018. Protective effect of *Lactobacillus reuteri* KUB-AC5 against *Salmonella Enteritidis* challenge in chickens. *Beneficial Microbes*. 10:43-54.
11. Kisuse, J., La-ongkham, O., Nakphaichit, M., Therdtatha, P., Momoda, R., Tanaka, M., Fukuda, S., Popluechai, S., Kespechara, K., Sonomoto, K., Lee, Y.K., Nitisinprasert, S. and Nakayama, J. 2018. Urban Diets Linked to Gut Microbiome and Metabolome Alterations in Children: A Comparative Cross-sectional Study in Thailand. *Frontiers in Microbiology*. 9:1-16.
12. Himanshu K., Wacklin, P., Nakphaichit, M., Loyttyneimi, E., Chowdhury, S., Shouche, Y., Mättö, J., Isolauri, E. and Salminen S. 2015. Secretor status is strongly associated with microbial alterations observed during pregnancy. *Plos One*. 10(7):e0134623
13. La-ongkham, O., Nakphaichit, M., Leelavatcharamas, V., Keawsompong, S. and Nitisinprasert, S. 2015. Distinct gut microbiota of healthy children from two different. *Archives of Microbiology*. 197:561-573.
14. Nakphaichit, M., Phraephaisarn C., Keawsompong, S., Sukpariyagul, O. and Nitisinprasert,
15. S. 2014. Effect of increasing dietary protein from soybean meal on intestinal microbiota and
16. their fatty acids production in broiler chicken. *Advances in Animal and*
17. Nakphaichit, M., Thanomwongwattana, S., Phraephaisarn, C., Sakamoto, N., Keawsompong, S., Nakayama, J., and Nitisinprasert, S. 2011. The effect of including *Lactobacillus reuteri* KUB-AC5 during post-hatch feeding on the growth and ileum microbiota of broi

18. P. Patumcharoenpol, M. Nakphaichit, G. Panagiotoul, A. Senavongse, N. Suratannon, W. Vongsangnak. 2021. MetGEMs Toolbox: Metagenome-scale models as integrative toolbox for uncovering metabolic functions and routes of human gut microbiome. Plos Computations
19. N. Raethong, M. Nakphaichit, N. Suratannon, W. Sathitkowitzchai, W. Weerapakorn, S. Keawsompong and W. Vongsangnak. 2021. Analysis of Human Gut Microbiome: Taxonomy and Metabolic Functions in Thai Adults. Genes. 12(3): 331.