



Name : Asst. Prof. Kitiya Vongkamjan

Education

Degree : Ph.D. (Food Science and Technology) Cornell, University, New York, USA

B.Sc. (Food Science, Honors) University of Guelph, Ontario, Canada

Present employment:

Department of Food Technology

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Field of interest: Foodborne Pathogens, Bacteriophages, and Food Safety

Current research:

- Seafood safety; diversity, ecology, transmission, and pathogenesis of the *Listeria monocytogenes* in seafood processing plant environments.
- Ecology and diversity of *Listeria*-specific phages and *Salmonella* phages, and phage-host interactions.
- Development of phage-based and hurdle technologies for controlling foodborne pathogens.
- Prophages of *Listeria* spp. and their roles in ecology, persistence, and pathogenesis of *Listeria monocytogenes*.

- Prevalence and antibiotic resistance of *Salmonella* serovars in food production chain.

Awards:

- 2015** Genomic Epidemiology in Infectious Diseases (GEID 2016) fellowship, Newton Fund, British Council, Thailand Research Fund and Mahidol University
- 2014** Curator program fellowship in Bioinformatics, Japan National Institute of Technology and Evaluation, Tokyo

Publications:

- Vongkamjan, K.**, S. Benjakul, H. T. K.Vu, and V. Vuddhakul. 2017. Longitudinal monitoring of *Listeria monocytogenes* and *Listeria* phages in seafood processing environments in Thailand. *Food Microbiol.* 66: 11-19.
- Yilmaz, E. B. Sen, S. Benjakul, Çaklı1, Sükran, and **K. Vongkamjan**. 2017. Reduction of *Listeria monocytogenes* on various food contact surfaces by *Listeria* phage suspension or electrolyzed oxidizing water. *J. Food Safety and Food Quality Arch Lebensmittelhyg.* 68: 9-14. DOI 10.2376/0003-925X-68-9
- Odedina, G. F., **K. Vongkamjan**, and S. P.Voravuthikunchai. 2016. Use of *Rhodomyrtus tomentosa* ethanolic leaf extract for the bio-control of *Listeria monocytogenes* post-cooking contamination in cooked chicken meat. *J. Food Sci Technol.* 53: 4234-4243.
- Vongkamjan, K.**, J. Fuangpaiboon, M. P. Turner, and V. Vuddhakul. 2016. Various ready-to-eat products from retail stores linked to occurrence of diverse *Listeria monocytogenes* and *Listeria* spp. isolates. *J. Food Prot.* 79: 239-245.
- Cadun, A., E. B. Sen Yilmaz, N. Demirtas, and **K. Vongkamjan**. 2016. Evaluation of microbiological quality of sushi sold in restaurants and supermarkets in turkey. *J. Food Safety and Food Quality Arch Lebensmittelhyg.* 67: 159-163. DOI 10.2376/0003-925X-67-159
- Vongkamjan, K.**, J. Fuangpaiboon, S. Jirachotrapee, and M. P. Turner. 2015. Occurrence and diversity of *Listeria* spp. in seafood processing plant environments. *Food Control.* 50:265-272.
- Vongkamjan, K.**, and M. Wiedmann. 2015. Starting from the bench-prevention and control of foodborne and zoonotic diseases. *Prev. Vet. Med.* 118:189-195

Odedina, G. F., **K. Vongkamjan**, and S. P. Voravuthikunchai. 2015. Potential bio-control agent from *Rhodomyrtus tomentosa* against *Listeria monocytogenes*. *Nutrients*. 7:7451-7468.

Arfat, Y. A., S. Benjakul, **K. Vongkamjan**, P. Sumpavapol, and S. Yarnpakdee. 2015. Shelf-life extension of refrigerated sea bass slices wrapped with fish protein isolate/fish skin gelatin-ZnO nanocomposite film incorporated with basil leaf essential oil. *J. Food Sci Technol*. 1-12.

Addeen, A., S. Benjakul, S. Maqsood, and **K. Vongkamjan**. 2015. Chicken blood promotes growth of *Listeria monocytogenes*, *Salmonella* Typhimurium, *Campylobacter jejuni* and *Pseudomonas aeruginosa* in minced chicken during refrigerated storage. *Int Food Res J*. 22: 2619-2628.

Moreno switt, A., H. C. den Bakker, **K. Vongkamjan**, K. Hoelzer, L. D. Warnick, K. Cummings, and M. Wiedmann. 2013. *Salmonella* bacteriophage diversity reflects host diversity on dairy farms. *Food Microbiol*. 36:275-287.

Keynotes and invited speakers

Vongkamjan, K., *Listeria monocytogenes*: pathogen of concern to the seafood industry. 5th IUMS Outreach Programme: Advances in Food Safety and Mycotoxins. Faculty of Agricultural Technology, Universitas Gadjah Mada, Yogyakarta, Indonesia. January 19-20, 2017.

Vongkamjan, K., Emerging Pathogens in Ready-to-Eat Seafood Products. 4th Asia Pacific International Food Safety Conference & 7th Asian Conference on Food and Nutrition Safety. St. Giles Wembley Hotel, Penang, Malaysia. October 11-13, 2016.

Vongkamjan, K., Diversity of *Listeria* phages and their applications for food safety. 2016 International Conference on Food Safety Applications. National Kaohsiung Marine University (NKMU), Kaohsiung, Taiwan. September 29-30, 2016.

Conferences/Meeting and Proceeding:

Vongkamjan, K., S. Benjakul, H. T. K. Vu, and V. Vuddhakul. Longitudinal monitoring of *Listeria monocytogenes* and listeriaphages in seafood processing plant environments. ISOPOL XIX: 19th International Symposium on Problems of Listeriosis (ISOPOL). June 14-17, 2016. Institute Pasteur, Paris, France (Poster).

K. Petsong, S. Benjakul, B. Sripaurya, S. Chaturongkakul, A. I. Moreno Switt, V. Vuddhakul, and **K. Vongkamjan**. Isolation and characterization of *Salmonella* phages isolated from various food-associated environments. 10th IMT-GT UNINET Conference 2016 (Bioscience: The Element of Life). Dec. 1-2, 2016. Prince of Songkla University, Hat Yai, Thailand (Poster).

K. Petsong, S. Benjakul, B. Sripaurya, S. Chaturongkakul, A. I. Moreno Switt, V. Vuddhakul, and **K. Vongkamjan**. Isolation and characterization of *Salmonella* phages isolated from various food-associated environments. IV International Conference on Antimicrobial Research (ICAR2016). June 29-July 1, 2016. Terremolinos, Malaga, Spain (Poster).

E. Burcu Şen Yılmaz, S. Benjakul, Şükran Çaklı, and **K. Vongkamjan**. Use of bacteriophage-based solution and electrolyzed oxidizing water as alternative sanitizing solutions to inactivate *Listeria monocytogenes* on food contact surfaces for the seafood processing facilities. 6th Congress of European Microbiologists (FEMS). June 7-11, 2015. Maastricht, The Netherlands (Poster).

Vongkamjan, K., J. Fuangpaiboon, B. Sripaurya, and M. Turner. Validation of the new rapid detection system - 3M Petrifilm *Salmonella* Express System for the detection of *Salmonella* in raw and processed seafood products. International Association for Food Protection (IAFP) Annual Meeting. August 3-6, 2014. Indianapolis, Indiana (Poster).

Vongkamjan, K., J. Fuangpaiboon, R. Klaewtanong, V. Vuddhakul, and M. Turner. Rapid detection of *Listeria monocytogenes* in a variety of ready-to-eat (RTE) products from retail stores in Thailand. International Association for Food Protection (IAFP) Annual Meeting. August 3-6, 2014. Indianapolis, Indiana (Poster).

E. Burcu Şen Yılmaz, Şükran Çaklı and **K. Vongkamjan**. Use of growth inhibitors for controlling some specific bacterial pathogens in the seafood industry. 44. WEFTA Annual Meeting. June 9-11, 2014, Bilboa, Spain (Poster).

Denes , T., **K. Vongkamjan**, A. M. Switt, H. W. Ackermann, M. Wiedmann, and H. C. den Bakker Genomic and morphological diversity of *Listeria* phages isolated from farm environments. 20th Evergreen Phage Meeting. August 4-9, 2013. Olympia, Washington (Poster).

Vongkamjan, K., J. Fuangpaiboon, S. Jirachotrapee, and M. Turner. Evaluation of the 3M™ Molecular Detection System for the detection of *Listeria* spp. in seafood processing plant

environments in Thailand. International Association for Food Protection (IAFP) Annual Meeting. July 28-31, 2013. Charlotte, North Carolina (Poster).

Book chapters

Vongkamjan, K., S. Wang, and A. Moreno Switt. *Chapter 34: Rapid detection of foodborne pathogens in seafood*. In Handbook of seafood: Harvesting, quality, protection and health benefits. Genç, I.Y., Esteves, E., Diler, A., Öksüz, A. & H. Kucuktas (eds.) (2016). Nova Science Publishers Inc., New York., USA Invited Author.

Petsong, K. and **K. Vongkamjan**. *Applications of Salmonella bacteriophages in the food production chain*. In The Battle Against Microbial Pathogens: Basic Science, Technological Advances and Educational Programs (2015). Formatex Research Center. Badajoz, Spain Invited Author.