

Arranee Chotiko, Ph.D.

Assistant Professor

Faculty of Science and Technology

Division of Food Science and Technology Management

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Orchid Nunber:



Education:

2015	Ph.D. (Food Science)	Louisiana State University, USA
2009	M.Sc. (Biotechnology)	Kasetsart University, Thailand
2006	B.Sc. (Biotechnology) with second honor	Kasetsart University, Thailand

Employment History:

10/2018-present	Assistant Professor	Rajamangala University of Technology Thanyaburi, Thailand
01/2016-09/2018	Lecturer	Rajamangala University of Technology Thanyaburi, Thailand

Major Area of Research Interest:

- Development of functional food and feed products emphasis on probiotics and prebiotics
- Encapsulations of living microorganisms and bioactive compounds
- Food processing emphasis on foods and beverage fermentation; freezing; hurdle technology

Editorial Members & Reviewers of Referred Scientific Journals and Proceeding

- Associate Editor, Progress in Applied Science and Technology, Rajamangala University of Technology Thanyaburi, Thailand
- Reviewer, Journal of Food Health and Bioenvironmental Science, Suan Dusit University, Thailand
- Academic committee and Reviewer, Proceeding of the 1st RMUTT Food Innovation and Smart Farm International Conference (2019), Rajamangala University of Technology Thanyaburi, Thailand
- Reviewer, Proceedings 2017 International Conference on Science and Technology, Rajamangala University of Technology Thanyaburi, Thailand

Publications:

- [1] Sribounoy U., Pirarat N., Solval, K. M., Sathivel, S. & Chotiko, A. (2021). Development of pelleted feed containing probiotic *Lactobacillus rhamnosus* GG and Jerusalem artichoke for Nile Tilapia and its biocompatibility studies, 3 Biotech, 11, 279.
- [2] Inatsu, Y., Chotiko, A., & Ananchaipattana, C. (2020). Contaminated Bacillus cereus in Lao and Thai fermented soybean “Tua Nao”. Japan Agricultural Research Quarterly, 54(1), 47-51.

- [3] Sewaka, M., Trullas, C., Chotiko, A., Rodkhum, C., Chansue, N., Boonanuntanasarn, S., & Pirarat, N. (2019). Efficacy of synbiotic *Jerusalem artichoke* and *Lactobacillus rhamnosus* GG-supplemented diets on growth performance, serum biochemical parameters, intestinal morphology, immune parameters and protection against *Aeromonas veronii* in juvenile red tilapia (*Oreochromis* spp.). *Fish & shellfish immunology*, 86, 260-268.
- [4] Solval, K. M., Chouljenko, A., Chotiko, A., & Sathivel, S. (2019). Growth kinetics and lactic acid production of *Lactobacillus plantarum* NRRL B-4496, *L. acidophilus* NRRL B-4495, and *L. reuteri* B-14171 in media containing egg white hydrolysates. *LWT - Food Science and Technology*, 105, 393-399.
- [5] Li, J., Chotiko, A., Chouljenko, A., Gao, C., Zheng, J., & Sathivel, S. (2019). Delivery of alpha-tocopherol through soluble dietary fibre-based nanofibres for improving the life span of *Caenorhabditis elegans*. *International journal of food sciences and nutrition*, 70(2), 172-181.
- [6] Alfaro, L., Chotiko, A., Chouljenko, A., Janes, M., King, J. M., & Sathivel, S. (2018). Development of water-soluble chitosan powder and its antimicrobial effect against inoculated *Listeria innocua* NRRL B-33016 on shrimp. *Food Control*, 85, 453-458.
- [7] Reyes, V., Chotiko, A., Chouljenko, A., & Sathivel, S. (2018). Viability of *Lactobacillus acidophilus* NRRL B-4495 encapsulated with high maize starch, maltodextrin, and gum arabic. *Lwt*, 96, 642-647.
- [8] Reyes, V., Chotiko, A., Chouljenko, A., Campbell, V., Liu, C., Theegala, C., & Sathivel, S. (2018). Influence of wall material on production of spray dried *Lactobacillus plantarum* NRRL B-4496 and its viability at different storage conditions. *Drying Technology*, 36, 1-11.
- [9] Chotiko, A., & Sathivel, S. (2017). Releasing characteristics of anthocyanins extract in pectin–whey protein complex microcapsules coated with zein. *Journal of Food Science and Technology*, 54, 2059-2066.
- [10] Chouljenko, A., Chotiko, A., Bonilla, F., Moncada, M., Reyes, V., & Sathivel, S. (2017). Effects of vacuum tumbling with chitosan nanoparticles on the quality characteristics of cryogenically frozen shrimp. *LWT-Food Science and Technology*, 75, 114-123.
- [11] Chouljenko, A., Chotiko, A., Solval, M. J. M., Solval, K. M., & Sathivel, S. (2017). Chitosan Nanoparticle Penetration into Shrimp Muscle and its Effects on the Microbial Quality. *Food and Bioprocess Technology*, 10, 186-198.
- [12] Li, J., Chotiko, A., Kyereh, E., Zhang, J., Liu, C., Ortega, V. V. R., ... & Sathivel, S. (2017). Development of a combined osmotic dehydration and cryogenic freezing process for minimizing quality changes during freezing with application to fruits and vegetables. *Journal of Food Processing and Preservation*, 41(1), e12926.
- [13] Chotiko, A., & Sathivel, S. (2016). Development of a combined low-methoxyl-pectin and rice-bran-extract delivery system to improve the viability of *Lactobacillus plantarum* under acid and bile conditions. *LWT-Food Science and Technology*, 66, 420-427.
- [14] Chotiko, A., & Sathivel, S. (2016). Three protective agents for pectin-rice bran capsules for encapsulating *Lactobacillus plantarum*. *Food bioscience*, 16, 56-65.
- [15] Chouljenko, A., Chotiko, A., Reyes, V., Alfaro, L., Liu, C., Dzandu, B., & Sathivel, S. (2016). Application of water-soluble chitosan to shrimp for quality retention. *LWT*, 74, 571-579.
- [16] Li, J., Chotiko, A., Narcisse, D. A., & Sathivel, S. (2016). Evaluation of alpha-tocopherol stability in soluble dietary fiber based nanofiber. *LWT-Food Science and Technology*, 68, 485-490.

- [17] Li, J., Solval, K. M., Alfaro, L., Zhang, J., Chotiko, A., Delgado, J. L. B., ... & Sathivel, S. (2015). Effect of blueberry extract from blueberry pomace on the microencapsulated fish oil. *Journal of Food Processing and Preservation*, 39(2), 199-206.
- [18] Mohideen, F. W., Solval, K. M., Li, J., Zhang, J., Chouljenko, A., Chotiko, A., ... & Sathivel, S. (2015). Effect of continuous ultra-sonication on microbial counts and physico-chemical properties of blueberry (*Vaccinium corymbosum*) juice. *LWT-Food Science and Technology*, 60(1), 563-570.
- [19] Chotiko, A., & Sathivel, S. (2014). Effects of enzymatically-extracted purple rice bran fiber as a protectant of *L. plantarum* NRRL B-4496 during freezing, freeze drying, and storage. *LWT-Food Science and Technology*, 59(1), 59-64.
- [20] Rodezno, L. A. E., Sundararajan, S., Solval, K. M., Chotiko, A., Li, J., Zhang, J., ... & Sathivel, S. (2013). Cryogenic and air blast freezing techniques and their effect on the quality of catfish fillets. *LWT-Food Science and Technology*, 54(2), 377-382.

Award:

- Gold medal-Synbio Rice from the 42nd International Invention Show (INOVA-BUDI UZOR 2017), Croatia.