



Name : Asst. Prof. Kongkarn Kijroongrojana

Education

Degree : Ph.D. (Food Technology) Univ. of Reading, UK

M.Sc. (Product Development in Agro-Industry)

B.Sc. (Agro-Industry)

Present employment :

Department of Food Technology

Faculty of Agro-Industry Prince of Songkla University

Hat Yai, Songkhla 90112 Thailand

Tel: (66-74) 286336

Fax (66-74) 558866

E-mail: kongkarn.k@psu.ac.th

Field of interest : Product Development, Sensory Evaluation

Current researches: Development of functional food and seafood products, sensory evaluation of pigmented rice

Publication :

Juermanee, P., Meenune, M., Kijroongrojana, K. Posri, W. 2017. Perceived sensory quality of unpolished pigmented and milled white rices. *Brit. Food J.* Accepted.

Juermanee, P., Meenune, M. and Kijroongrojana, K. 2017. Relationships of sensory profile with instrumental measurement and consumer acceptance of Thai unpolished pigmented rice. *Int. Food Res. J.* Accepted.

- Sukkwai, S., Kijroongrojana, K. Chonpracha, P., Pujols, K.D., Alonso-Marencio, J.R., Ardoin, R. and Prinyawiwatkul, W. 2018. Effects of colorant concentration and ‘natural colour’ or ‘sodium content’ claim on saltiness perception, consumer liking and emotion, and purchase intent of dipping sauces. Int. J. Food Sci. Tech. doi:10.1111/ijfs.13704
- Sukkwai, S., Chonpracha, P., Kijroongrojana, K. and Prinyawiwatkul. 2017. Influences of a natural colourant on colour and salty taste perception, liking, emotion and purchase intent: a case of mayonnaise-based dipping sauces. J. Food Sci. Tech. 52(10). 2256-2264.
- Chotphruethipong, L., Benjakul, S. and Kijroongrojana, K. 2017. Optimization of extraction of antioxidative phenolic compounds from cashew (*Anacardium occidentale* L.) leaves using response surface methodology. J. Food Biochem. 41(4). art.no.e12379.
- Fuangpaiboon, N. and Kijroongrojana, K. 2017. Sensorial and physical properties of coconut-milk ice cream modified with fat replacers. Maejo Int. J. Sci. Technol. 11: 133-147.
- U-chupaj, J., Malila, Y., Gamonpilas, C., Kijroongrojana, K., Petracci, M., Benjakul, S. and Visessanguan, W. 2017. Differences in textural properties of cooked caponized and broiler chicken breast meat. Poultry Sci. 96: 2491-2500.
- Fuangpaiboon, N. and Kijroongrojana, K. 2015. Qualities and sensory characteristics of coconut milk ice cream containing different low glycemic index (GI) sweetener blends. Inter. Food Res. J. 22(3): 1138-1147.
- Kaewudom, P., Benjakul, S., Kijroongrojana, K. 2013. Properties of surimi gel as influenced by fish gelatin and microbial transglutaminase. Food Biosci. 1: 39-47.
- Manheem, K., Benjakul, S., Kijroongrojana, K., Visessanguan, W. 2013. Impacts of freeze-thawing on melanosis and quality change of pre-cooked Pacific white shrimp. Inter. Food Res. J. 20 (3): 1277-1283.
- Benjakul, S., Sungsri-In, R., and Kijroongrojana, K. 2012. Effect of treating squid with sodium chloride in combination with oxidizing agent on bleaching, physical and chemical changes during frozen storage. Food Bioprocess Technol. 5 (6): 2077-2084.
- Jantakoson, T., Kijroongrojana, K., Benjakul, S. 2012. Effect of high pressure and heat treatments on black tiger shrimp (*Penaeus monodon* Fabricius) muscle protein. Inter. Aquatic. Res. 4: 19.

Kaewudom, P., Benjakul, S., Kijroongrojana, K. 2012. Effect of bovine and fish gelatin in combination with microbial transglutaminase on gel properties of threadfin bream surimi. Inter. Aquatic Res. 4: 12.

Manheem, K., S., Benjakul, Kijroongrojana, K., Visessanguan, W. 2012. The effect of heating conditions on polyphenol oxidase, proteases and melanosis in pre-cooked Pacific white shrimp during refrigerated storage. Food Chem. 131(4): 1370-1375. (ສວຖ.)

Tantasuttikul, A., Kijroongrojana, K., Benjakul, S. 2011. Quality indices of squid (*Photololigo duvaucelii*) and cuttlefish (*Sepia aculeata*) stored in ice. J. Aquatic Food Product Technol. 20 (2): 129-147. (มหาวิทยาลัยสงขลานครินทร์)

Sukkwai, S., Kijroongrojana, K. and Benjakul, S. 2011. Extraction of Gelatin from Bigeye Snapper (*Priacanthus tayenus*) Skin for Gelatin Hydrolysate Production. Inter. Food Res. J. 18 (3): 1078-1083. (งบประมาณแผ่นดิน มหาวิทยาลัยสงขลานครินทร์)

Cheejareon, J., Kijroongrojana, K., Benjakul, S. 2011. Improvement of physical properties of black tiger shrimp (*Penaeus monodon*) meat gel induced by high pressure and heat treatment. J. Food Biochem. 35 (3): 976-996. (สก.)

Sungsri-In, R., Benjakul, S., and Kijroongrojana, K. 2011. Pink discoloration and quality changes of squid (*Loligo Formosana*) during iced storage. LWT- Food Sci. Technol. 44 (1): 206-213. (มหาวิทยาลัยสงขลานครินทร์)

Benjakul, S., Sungsri-In, R., and Kijroongrojana, K. 2011. Effect of treating squid with sodium chloride in combination with oxidizing agent on bleaching, physical and chemical changes during frozen storage. Food Bioprocess Technol. In press. (มหาวิทยาลัยสงขลานครินทร์)

Juermanee, P., Kijroongrojana, K., Usawakesmanee, W., Posri, W. 2009. Juiciness Improvement of Frozen Battered Shrimp Burger Using Modified Tapioca Starch, Sodium Alginate, and Iota-Carrageenan. Songklanakarin J. Sci. Technol. 31: 491-500. (งบประมาณแผ่นดิน มหาวิทยาลัยสงขลานครินทร์)

Sugkhaphan, P. and Kijroongrojana, K. 2009. Optimization of prebiotics in soybean milk using mixture experiments. Songklanakarin J. Sci. Technol. 31: 481-490. (มหาวิทยาลัยสงขลานครินทร์)

Yarnpakdee, S., Benjakul, S., Visessanguan, W., Kijroongrojana, K. 2009. Thermal properties and heat-induced aggregation of natural actomyosin extracted from goatfish (*Mulloidichthys martinicus*) muscle as influenced by iced storage. Food Hydrocolloids. 23: 1779-1784.

- Benjakul, S., Visessanguan, W., Kijroongrojana, K., Srikit, P. 2008. Effect of heating on physical properties and microstructure of black tiger shrimp (*Penaeus monodon*) and white shrimp (*Penaeus vannamei*) meats. Int. J. Food Sci. Technol. 43: 1066-1072.
- Eakpatch, P., Benjakul, S., Visessanguan, W., Kijroongrojana, K. 2008. Autolysis of pacific white shrimp (*Litopenaeus vannamei*) meat: characterization and the effects of protein additives. J. Food Sci. 73: 95-103.
- Rattanasatheirn, N., Benjakul, S., Visessanguan, W., Kijroongrojana, K. 2007. Properties, translucence, and microstructure of pacific white shrimp treated with mixed phosphates as affected by freshness and deveining. J. Food Sci. 73: S31-S40.
- Srikit, P., Benjakul, S., Visessanguan, W., Kijroongrojana, K. 2007. Comparative studies on chemical composition and thermal properties of black tiger shrimp (*Penaeus monodon*) and white shrimp (*Penaeus vannamei*) meats. Food Chem. 103: 1199-1127.
- Srikit, P., Benjakul, S., Visessanguan, W., Kijroongrojana, K. 2007. Comparative studies on the effect of the freeze-thawing process on the physicochemical properties and microstructures of black tiger shrimp (*Penaeus monodon*) and white shrimp (*Penaeus vannamei*) muscle. Food Chem. 104: 113-121.
- Jidbunjerdkul, S., Kijroongrojana, K. and Pasakawee, K. 2007. Optimum composite flour, water and mixing time of dough for crispy snack containing fish-head protein hydrolysate. Songklanakarin J. Sci. Technol. 29(6): 1633-1643 (in Thai)
- Jidbunjerdkul, S., Kijroongrojana, K. and Chothong, T. 2007. Replacement of cocoa butter with cocoa butter-like fat from modified palm oil in coating chocolate. Songklanakarin J. Sci. Technol. 29(4): (in Thai)
- Jidbunjerdkul, S. and Kijroongrojana, K. 2007. Formulation of Thai herbal Namprik. Songklanakarin J. Sci. Technol. 29(3): (in Thai)
- Chantarat , P., Kijroongrojana, K., Vittayanont, M. 2005. Effect of ice storage on muscle protein properties and qualities of emulsion fish sausage from bigeye snapper (*Priacanthus tayenus*) and lizard fish (*Saurida undosquamis*). Songklanakarin J. Sci. Technol. 27(1): 123-138 (in Thai)
- Phomajun, P. Kijroongrojana, K. 2005. Water activity reduction of intermediate moisture yellowstrip trevally (*Selaroides leptolepis*). Songklanakarin J. Sci. Technol. 27(3): 617-631 (in Thai)
- Riebroy, S., Benjakul,B., Visessanguan,W., Kijroongrojana, K., Tanaka, M. 2004. Some characteristics of commercial Som-Fug produced in Thailand. Food Chem. 88: 527-535.

Angsupanich K, Ledward, D. A. 1998. High pressure effects on cod (*Gadus morhua*) muscle. Food Chem. 63: 39-50.

Angsupanich K, Edde M., Ledward D.A. 1999. Effect of high pressure on the myofibrilla proteins of cod and turkey muscle. J. Agric. Food Chem. 47: 92-99.

Conferences/Meeting and Proceeding :

Fuangpaiboon, N. and Kijroongrojana, K. 2014. Effect of low glycemic index sweetener on sensory characteristics of coconut milk ice cream. Summer Program. In Sensory Evaluation Symposium: From senses to quality: What can sensory evaluation bring to quality control. July 25-27, Ho Chi Minh city, Vietnam.

Kijroongrojana, K., Pruksahet, W., Wongthaweepitayakul, S., Fuangpaiboon, N. 2014. Effect of coconut protein on coconut milk ice cream qualities. 8th International Congress of Food Technologist, Biotechnologist and Nutritionist. Opatia, Croatia, p.125.

Juemanee, A. and Kijroongrojana, K. 2014. Sensory evaluation of glutinous and non-glutinous pigmented whole grain rice in Thailand. Summer Program In Sensory Evaluation Symposium: From senses to quality: What can sensory evaluation bring to quality control. July 25-27, Ho Chi Minh city, Vietnam.

Sukkwai, S. and Kijroongrojana, K. 2014. Sensory characteristics of flavourant extracted from pacific white shrimp head. Summer Program In Sensory Evaluation Symposium: From senses to quality: What can sensory evaluation bring to quality control. July 25-27, Ho Chi Minh city, Vietnam.

Fuangpaiboon, N. and Kijroongrojana, K. 2013. Effect of low glycemic index sweetener on coconut milk ice cream qualities. 2nd International conference on nutrition and food science. Moscow, Russia. IPCBEE. Vol. 53, p. 29-53.

Sutantirad, T., Kijroongrojana, K., Jongjareonrak, A. 2011. Optimization of germinated brown rice (Sangyod Phattalung) extraction for high yield of bioactive compounds and antioxidant activities. Proceeding of The 3 rd International Conference on Biochemistry and Molecular Biology, April 6-8, p.189-193, Chaingmai, Thailand. Tantasuttikul, A., Kijroongrojana, K., Benjakul, S. 2009. Study on Quality Indices of Squid (*Photololigo duvaucelii*) and Cuttlefish (*Sepia aculeata*) During Iced Storage. The 10th Annual Conference of Thai Society of Agricultural Engineering

“International Conference on Innovations in Agricultural, Food and Renewable Energy Productions for Mankind”, April 1-3, School of Agricultural Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

Sugkhaphan, P and Kijroongrojana, K. 2008. Optimization of prebiotics in soybean milk using mixture experiment. 34th Congress on Science and Technology of Thailand, November 2-4, Bangkok, Thailand

Kijroongrojana, K. Junthakoson, T., Benjakul, S. 2006. Gelation of minced black tiger (*Penaeus monodon Fibricius*) induced by high pressure and heat treatment. TRF annual meeting. October 12-14, 2006. Petchaburi, Thailand

Juermanee,P., Kijroongrojana, K, Usawakesmanee, W., Posri, W. 2006. Effect of some hydrocolloids on juiciness of frozen battered shrimp burger. The 32nd Congress of Science and Technology of Thailand. October 10-12, 2006. Bangkok. Thailand.

Kijroongrojana, K., Junthakoson, T., Benjakul, S. 2005. Effect of high pressure and heat treatments on black tiger shrimp (*Penaeus monodon Fibritius*) Muscle proteins. TRF annual meeting. October 13-15, 2005. Petchaburi, Thailand

Cheechareon, J. Kijroongrojana, K. Benjakul, S. 2005. Gelation of minced black tiger shrimp (*Penaeus monodon Fabricus*) induced by high pressure and heat treatment. The 7th Agro-Industrial conference. BITECH, Bangkok, Thailand.

Kijroongrojana K., Maneerat, S., Bourtoom,T. 2001 Development of ready-to-eat tuna soup from tuna condensate. 11th World Congress of Food Science and Technology, April 22-27. Seoul, Korea.