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### EDUCATION

- 2006            Master of Science (Food Technology), Suranaree University of Technology, Thailand
- 2001            Bachelor of Science (Food Technology), Suranaree University of Technology, Thailand

### HONOR AND AWARD

- 2007            Recipient of George F. Stewart IFT International Research Paper Competition, Institute of Food Technologists (IFT), USA

### PUBLICATION

- Sinsuwan, S.,** Rodtong, S., and Yongsawatdigul, J. (2012). Hydrolytic activity of *Virgibacillus* sp. SK37, a starter culture of fish sauce fermentation, and its cell-bound proteinases. *World Journal of Microbiology and Biotechnology*. 28:2651–2659.
- Sinsuwan, S.,** Yongsawatdigul, J., Chumsengand, S, and Yamabhai, M. (2012). Efficient expression and purification of recombinant glutaminase from *Bacillus licheniformis* (GlsA) in *Escherichia coli*. *Protein Expression and Purification*. 83:52–58.
- Sinsuwan, S.,** Rodtong, S., and Yongsawatdigul, J. (2011). Evidence of cell-associated proteinases from *Virgibacillus* sp. SK33 isolated from fish sauce fermentation. *Journal of Food Science*. 76:413-419.
- Sinsuwan, S.,** Rodtong, S., and Yongsawatdigul, J. (2010). Purification and characterization of a salt-activated and organic solvent-stable heterotrimer proteinase from *Virgibacillus* sp. SK33 isolated from Thai fish sauce. *Journal Agricultural of Food Chemistry*. 58:248-256.

- Sinsuwan, S.,** Rodtong, S., and Yongsawatdigul, J. (2010). A NaCl-stable serine proteinase from *Virgibacillus* sp. SK33 isolated from Thai fish sauce. Food Chemistry. 119:573-579.
- Sinsuwan, S.,** Rodtong, S., and Yongsawatdigul, J. (2008). Characterization of Ca<sup>2+</sup>-activated cell-bound proteinase from *Virgibacillus* sp. SK37 isolated from fish sauce fermentation. LWT-Food Science and Technology. 41: 2166-2174.
- Sinsuwan, S.,** Rodtong, S., and Yongsawatdigul, J. (2008). Production and characterization of NaCl-activated proteinases from *Virgibacillus* sp. SK33 isolated from fish sauce fermentation. Process Biochemistry. 43: 185-192.
- Sinsuwan, S.,** Rodtong, S., and Yongsawatdigul, J. (2007). NaCl-activated extracellular proteinase from *Virgibacillus* sp. SK37 isolated from fish sauce fermentation. Journal of Food Science. 72: 264-269.
- Yongsawatdigul, J. and **Sinsuwan, S.** (2007). Aggregation and conformational changes of tilapia actomyosin as affected by calcium ion during setting. Food Hydrocolloids. 21: 359-367.

## SCIENTIFIC PRESENTATION

### *International Meeting*

- Sinsuwan, S.,** Yongsawatdigul, J., and Yamabhai, M. Cloning, overexpression, and biochemical characterization of glutaminase from *Bacillus licheniformis*. **Poster presentation.** 4th Congress of European Microbiologists FEMS 2011, 26-30 June 2011, Geneva, Switzerland
- Sinsuwan, S., Montriwong, A., Rodtong, S., and Yongsawatdigul, J. Biogenic amines degradation by moderate halophile, *Brevibacillus* sp. SK35. **Poster presentation.** 14th International Biotechnology Symposium and Exhibition (IBS2010): Biotechnology for the Sustainability of Human Society, 14-18 September 2010, Rimini, Italy
- Sinsuwan, S., Rodtong, S., and Yongsawatdigul, J. Purification and characterization of a 96 kDa NaCl-activated proteinase from moderate halophile, *Virgibacillus* sp. SK33. **Oral presentation.** American Chemical Society 235<sup>th</sup> National Meeting & Exposition 2008, 6-10 April 2008, New Orleans, USA.
- Sinsuwan, S., Rodtong, S., Raksakulthai N., and Yongsawatdigul J. Purification and characterization of a NaCl-activated proteinase from *Virgibacillus* sp. SK33

isolated from Thai fish sauce. **Poster presentation.** Institute of Food Technologists (IFT) Annual Meeting. 28 July-1 August 2007, Chicago, USA.

Yongsawatdigul, J., Hemung, B., and **Sinsuwan, S.** 2005. Ca<sup>2+</sup>-induced conformational changes of fish muscle proteins during setting. **Oral presentation.** Institute of Food Technologists (IFT) Annual Meeting, 15-20 June 2005, New Orleans, USA.

#### ***Meeting held in Thailand***

**Sinsuwan, S.**, Rodtong, S., and Yongsawatdigul J. Role of cell surface-associated proteinases of *Virgibacillus* sp. SK37 on protein hydrolysis of fish sauce fermentation. **Poster presentation.** CHE-USDC CONGRESS IV, 14-16 September 2011. The Zign Hotel, Pattaya, Thailand

**Sinsuwan, S.**, Rodtong, S., and Yongsawatdigul J. Biochemical characterization of cell-bound proteinases from a moderate halophile, *Virgibacillus* sp. SK37. **Poster presentation.** TSB 2010 International Conference on Biotechnology for Healthy Living, 20-22 October 2010. Prince of Songkla University, Trang Campus, Trang, Thailand

**Sinsuwan, S.**, Nawong, S., Rodtong, S., and Yongsawatdigul, J. Extraction and characterization of cell-bound proteinases from *Virgibacillus* sp. SK33 isolated from fish sauce fermentation. **Poster presentation.** The 11th Agro-industrial conference, Food Innovation Asia Conference 2009: “Value Creation through Innovation in Food Technology”. June 18-19, 2009, Bangkok, Thailand

**Sinsuwan, S.**, Rodtong, S., and Yongsawatdigul J. Purification and characterization of a NaCl-activated proteinase from *Virgibacillus* sp. SK33 isolated from Thai fish sauce. **Oral presentation.** The 9th Agro-Industrial Conference Food Innovation Asia 2007: “Q” Food for Good Life, 14-15 June 2007. Bangkok, Thailand.

**Sinsuwan, S.**, Raksakulthai, N., Rodtong, S. Yongsawatdigul, J. 2006. Production and characterization of proteinases from *Brevibacillus* sp. isolated from fish sauce fermentation. **Poster presentation.** The 8th Agro-industrial conference: Food Innovation. June 15-16, 2006, Bangkok, Thailand

Nawong, S., **Sinsuwan, S.**, Rodtong, S, Yongsawatdigul, J. 2005. Cell-bound proteinase-producing bacteria isolated from fish sauce fermentation process. **Poster presentation.** BioThailand 2005: Biotechnology Challenges in the 21st Century, November 2-5, 2005, Bangkok, Thailand

**Sinsuwan, S.** Rodtong, S, Yongsawatdigul, J. 2005. Salt-tolerant cell-bound proteinase from *Halobacillus* sp. SK37. **Poster presentation.** BioThailand 2005: Biotechnology Challenges in the 21st Century, November 2-5, 2005, Bangkok, Thailand

**Sinsuwan, S.**, Nawong, S., Rodtong, S, Yongsawatdigul, J. 2005. Characterization of extracellular proteinases from a *Halobacillus* species isolated from Thai fish sauce. **Poster presentation.** BioThailand 2005: Biotechnology Challenges in the 21st Century, 2005, November 2-5, Bangkok, Thailand

**Sinsuwan, S.**, Yongsawatdigul, J. 2005. Calcium induces conformational changes in tilapia actomyosin. **Poster presentation.** The 7th Agro-industrial conference: Bringing Thailand into the World's Kitchen, June 22-24, 2005, Bangkok.

\*Name of presenter is underlined