



Name: Dr. Wasana Suyotha

Education

Degree : Ph.D. (Biotechnology), Ritsumeikan University, Japan

M.Eng. (Applied chemistry and Biotechnology) Ritsumeikan University, Japan

B. Eng. (Bioscience and Biotechnology) Ritsumeikan University, Japan

Present employment:

Department of Industrial Biotechnology
Faculty of Agro-Industry Prince of Songkla University
Hat Yai, Songkhla 90112 Thailand
Tel: (66-74) 286361
Fax (66-74) 558866

Email Address : wasana.suy@psu.ac.th

Field of interest: Molecular Biotechnology and Enzyme Technology

Current researches:

1. Isolation and screening chitosanase producing microorganism
2. Application of α -1,3-glucanase for the biocontrol of rice pathogenic fungi

Publication:

Review:

Suyotha, W., Yano, S., and Wakayama, M. α -1,3-glucanase : present situation and prospect of research. 2016. *World J Microbiol Biotechnol.* 32(2).

doi: 10.1007/s11274-015-1977-0

Article:

Yano, S., **Suyotha, W.**, Honda, A., Takagi, K., Rattanakit-Chandet, N., Wakayama, M., and Tachiki, T. 2011. N-terminal region of chitinase I of *Bacillus circulans* KA-304 contained new chitin-binding domain. *Biosci. Biotechnol. Biochem.* 75(2):299-304.

Suyotha, W., Yano, S., Takagi, K., Rattanakit-Chandet, N., Tachiki, T., and Wakayama, M. Domain structure and function of α -1,3-glucanase from *Bacillus circulans* KA-304, an enzyme essential for degrading basidiomycete cell walls. 2013. *Biosci. Biotechnol. Biochem.* 77(3), 639-647.

Suyotha, W., Yano, S., Itoh, T., Fujimoto, H., Hibi, T., Tachiki, T., and Wakayama, M. 2014. Characterization of α -1,3-glucanase isozyme from *Paenibacillus glycanilyticus* FH11 in a new subgroup of family 87. *J Biosci Bioeng.* 118 (4), 378-385 .

Presentation

Suyotha, W., Tanikawa, M., Yano, S., Tachiki, T. and Wakayama M. Cloning and expression of D-Alanine-D-alanine ligase gene of *Lactobacillus fermentum* NBRC3959.

Capacity Building and Development of Microbial Potential and Fermentation Technology towards New Era. 10-11 October 2009. Yamaguchi, Japan.

Suyotha, W., Tanikawa, M., Yano, S., and Wakayama M. Characterization of D-alanine-D-alanine ligase from *Lactobacillus fermentum* NBRC 3959. International Chemical Congress of Pacific Basin Societies. 15-20 December 2010, Honolulu, Hawaii, USA.

Suyotha, W., Yano, S., Tachiki, T., and Wakayama, M. Structure domain of α -1,3-glucanase from *Bacillus circulans* KA-304. The Annual Meeting of Japan Society for Bioscience, Biotechnology and Agrochemistry. 22-26 March 2012. Kyoto, Japan.

Suyotha, W., Yano, S., Tachiki, T., and Wakayama, M. N-terminal region of α -1,3-glucanase from *Bacillus circulans* KA-304. 15th International Biotechnology Symposium and Exhibition. 16-21 September 2012, Daegu, Korea.

Suyotha, W., Yano, S., Fujimoto, H., Tachiki, T., and Wakayama, M. Cloning and expression of the novel α -1,3-glucanase gene from *Paenibacillus* sp. FH11, The Annual Meeting of Japan Society for Biotechnology. 18-20 September 2013. Hiroshima, Japan.

Suyotha, W., Yano S., Kubo, M. and Wakayama M. Characterization of α -1,3-glucanase isozyme from *Paenibacillus glycanilyticus* FH11, first characterized enzyme in a new subgroup of family 87. The 1st Joint Seminar of New Core to Core Program A. Advanced Research Networks on Establishment of an International Research Core for Bio-research Fields

with Microbes from Tropical Areas (Part of The Thailand Research EXPO 2014). 10-11 August 2014, Bangkok, Thailand.

Suyotha, W., Yano S., Kubo, M. and Wakayama M. Enhanced the stability of the catalytic domain of novel α -1,3 glucanase from *Paenibacillus glycanilyticus* with *Brevibacillus* expression system. The 6th International Conference on Fermentation Technology for Value Added Agricultural Products. 29 - 30 July 2015, Khon Kaen, Thailand.