

Assoc.Prof.Dr.Ashara Pengnoo

Ph.D. Bioresources and Product Science, Hokkaido University, Japan

0-7428-6186, 0-7455-8809

ashara.p@psu.ac.th

Works published

- Chumthong, A., Wiwattanapatapee, R., Viernstein, H., Pengnoo, A. and Kanjanamaneesathian, M. 2015. Spray-dried Powder of *Bacillus megaterium* for Control of Rice Sheath Blight Disease: Formulation Protocol and Efficacy Testing in Laboratory and Greenhouse. *Cereal Research Communications*.
- R.Wiwattanapatapee, A. Chumthong, A.Pengnoo and M.Kanjanamaneesathian. 2013. Preparation and evaluation of *Bacillus megaterium*-alginate microcapsules for control of rice sheath blight disease. *World J Microbiol Biotechnol* 29:1487-1497.
- Kanjanamaneesathian, M., Wiwattanapatapee, R., Rotniam, W., Pengnoo, A., Wongpetkiew, W., and Tanmala, V. 2013. Application of a suspension concentrate formulation of *Bacillus velezensis* to control root rot of hydroponically-grown vegetables. *New Zealand Plant Protection* 66 : 229-234.
- Chanjula, P. and Pengnoo, A. 2012 . Influence of Replacing Soybean Meal with Yeast Fermented palm Kernel Cake in Concentrate on Nutrient Utilization and Rumen Fermentation Characteristics in Goats. September 14 - 15, 2012. Khon Kaen, Thailand.
- Kantachote,D., Kowpong, K., Charernjiratrakul, W., and Pengnoo, A. 2009. Microbial succession in a fermenting of wild forest noni (*Morinda coreia* Ham) fruit plus molasses and its role in producing a liquid fertilizer. *Electronic Journal of Biotechnology*.
- Chumthong A., Kanjanamaneesathian M., Pengnoo A. and Wiwattanapatapee R. 2008. Water-soluble granules containing *Bacillus megaterium* for biological control of rice sheath blight: Formulation, bacterial viability and efficacy testing. *World Journal of Microbiology and Biotechnology*. 24 (11) : 2499-2507.
- Kanjanamaneesathian, M., Wiwattanapatapee, R., Pengnoo, A., Oungbho, K. and Chumthong A. 2007. Efficacy of novel formulations of *Bacillus megaterium* in suppressing sheath blight of rice caused by *Rhizoctonia solani*. *Plant Pathology Journal*.

- Sawangsri, P., Pengnoo, A., Suwanprasert, J. and Kanjanamaneesathian, M. 2007. Effect of *Trichoderma harzianum* biomass and *Bradyrhizobium* sp. strain NC 92 to control leaf blight disease of bambara groundnut (*Vigna subterranea*) caused by *Rhizoctonia solani* in the field Songklanakarin Journal of Science and Technology 29
- Onthong, J., Gimsaguan, S., Pengnoo, A. Nilnond, C and Osaki, M. 2007. Effect of pH and some cations on activity of acid phosphatase secreted from *Ustilago* sp. isolated from acid sulphate soil Songklanakarin Journal of Science and Technology.
- Wiwattanapatapee, R., Chumthong, A., Pengnoo, A. and Kanjanamaneesathian, M. 2007. Effervescent fast-disintegrating bacterial formulation for biological control of rice sheath blight. Journal of Control Release. 119 : 229-235.
- Pengnoo, A., Hashidoko, Y., Onthong, J., Gimsaguan, S., Sae-Ong, M., Shinano, T. and Osaki, M. 2006. Screening of phosphate-solubilizing microorganisms in rhizosphere and rhizoplane of adverse soil-adapting plants in Southern Thailand. Tropics.
- Pengnoo, A., Wiwattanapatapee, R., Chumthong, A. and Kanjanamaneesathian, M. 2006. Bacterial antagonist as seed treatment to control leaf blight disease of bambara groundnut (*Vigna subterranea*). World Journal of Microbiology and Biotechnology.
- Panapitukkul, N., Pengnoo, A., Siriwong, C. and Chatupote, W. 2005. Hydrogeomorphological controls on groundwater quality in the Rattaphum catchment (Songkla Lake basin), Thailand. Water, Air, Soil Pollution. 5 : 145-163.
- Pengnoo, A., Wiwattanapatapee, R., Chumthong, A., Rotniam, W. and Kanjanamaneesathian, M. 2005. Preliminary study on the effect of culture medium on the number and size of endospores of *Bacillus megaterium*. Silpakorn University Science and Technology Journal. 5 (1-2) : 129-139.
- Rotjanarat, W., Wiwattanapatapee, R., Pengnoo, A., Oungbho, K. and Kanjanamaneesathian, M. 2005. Efficacy of *Bacillus megaterium* granules in suppressing rice sheath blight Disease *Rhizoctonia solani*. Phytochemicals and Natural Products for the Progress of Mankind. In The Forth International Conference on Biopesticides. Chiang Mai, Thailand. p. 51.
- Wiwattanapatapee, R., Pengnoo, A., Chumthong, A. and Kanjanamaneesathian, M., 2005. Formulation of bacterial antagonist *Bacillus firmus* for control of leaf blight disease of Bambara groundnut, *Vigna subterranea*. 2005. Phytochemicals and Natural

Products for the Progress of Mankind. In The Forth International Conference on Biopesticides. Chiang Mai, Thailand. p. 39.

- Chumthong, A., Wiwattanapatapee, R., Pengnoo, A., Nilaratana, L. and Kanjanamaneesathian, M. 2005. Culture and production of *Bacillus megaterium* endospore, antagonists of *Rhizoctonia solani*, from cheap substrate. 2005. Phytochemicals and Natural Products for the Progress of Mankind. In The Forth International Conference on Biopesticides. Chiang Mai, Thailand. p. 88.
- Wiwattanapatapee, R., Kanjanamaneesathian, M., Pengnoo, A., Oungbho, K., Rojanarat, W. and Chumthong, A. 2004. Efficacy of bacterial antagonist formulation in suppressing sheath blight of rice Experience Innovative Science in Spectacular Scenery. In 31st Annual Meeting and Exposition of the Controlled Release Society. Honolulu, Hawaii, U.S.A. p. 071.
- Wiwattanapatapee, R., Pengnoo, A., Kanjanamaneesathian, M., Nilratana, L. and Jantharangsri, A. 2004. Floating pellets containing bacterial antagonist for control sheath blight of rice:formulations, viability and bacterial release studies. Journal of Control Release. 95 : 453-460.

Award

- Award for innovation and outstanding performance. The *Bacillus megaterium* for control sheath blight of rice. In 40 year anniversary Prince of Songkla University.
- Award for Research published outstanding. The Effervescent fast-disintegrating bacteria formulation for biological control of rice sheath blight. Journal of Controlled Release Vol. 119 2007, Nagai Award Thailand 2007, The Nagai Foundation Tokyo.
- Award for Research published outstanding . Bacterial granule formulation for biological control of rice sheath blight, RGJ-Ph.D Congress IX,