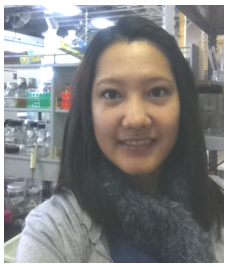

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NAME: Miss Sirinapa Chungopast
NICK NAME: Ying
BIRTHDAY: 20 June 1982
AGE: 37 years old
NATIONALLITY: Thai

EDUCATION:

2012-2015 Ph.D. (Molecular microbiology), Faculty of Agriculture, Kagawa University
Doctorate program under Ehime University
Major: Applied Bioresource Science
Thesis title: Functional analysis of nodule senescence in *Lotus japonicus* inoculated with *Mesorhizobium loti*. (Thailand government Scholarship)
Advisor: Professor Dr Mika Nomura

2004-2007 M.Sc. (Microbiology)
Department of Microbiology, Faculty of Science, Kasetsart University
Major: Microbiology **Minor:** Biochemistry
Advisor: Assistant Professor Patoomporn Chim-anage
Thesis title: Purification and Characterization of Alkaline Protease from *Bacillus* sp. A39 (funded by Thailand Research Fund)

2000-2004 B.Sc. (Biology)
Department of Microbiology, Faculty of Science, Kasetsart University
Advisor: Associate Professor Poonpilai Suwanarit
Special problem title: Effect of chitosan on fungi isolated from fruits and leaves of plants

1994-1997 Junior and Senior Certificate
Sarawitthaya School

1988-1994 Certificate
Pramoch Witthaya Raminthra School

TRAININGS:

2018 Training, **Empowering Agricultureal Research through Metagenomics**. June 18-21, 2018. Faculty of science, Kasetsart University. Thailand.

2009 Training, **Internal Auditor GLOBALGAP Option 2**. Sep. 17-18, 2009. Kamphaeng-saen Kasetsart University. Nakorn Pathom.

2008 Take Action Training, **Gene Discovery of Uncultured Microbes Using Metagenomic Approach**. May. 13-16, 2008. National Center for Genetic Enginnering and Biotechnology (BIOTEC). National Science and Technology

Development Agency, Ministry of Science and Technology. Department Biotechnology Thammasat University. Thailand.

2006 Take Action Training, **Protein Bioinformatics.** May. 16-19, 2006. Program in Interdisciplinary Genetic Engineering and Department of Biochemetry, Faculty of Science, Kasetsart University.

2005 I learned and practiced about **microbial collection methods.** For example, lyophilize (freeze dry), deep freeze (-80°C), and liquid paraffin at Microbiological Resource Centre, Thailand Institute of Scientific and Technological Research. This place service distribution and preservation microbial.

AWARDS:

Sirinapa Chungopast. 2004. **Effect of chitosan on fungi isolated from fruits and leaves of plants**. Certificate a good prize on poster academic presentation. The 5th Kasetsart University Annual Conference.

WORK EXPERIENCES:

2008-present A lecturer at the Department of Soil Science, Faculty of Agriculture Kamphaeng-saen at Kasetsart University, Kamphaeng-saen Campus, Thailand. **Teaching:** Soil science, Soil Microbiology, Soil Ecology, Soil and plant relationships, and Soil chemistry

2007-2008 A website designer at Food Control Division, Food and Drug Administration Thailand, Ministry of Public Health.

2007 A research assistant about partially purification protease from silk worm.

2003 Joining into **mushroom club**, I was treasurer and produced starter of mushroom. Feb. 20, 2003

SPECIALIZES: Soil microbiology, molecular microbiology, enzyme purification and soil ecology

INTERESTED IN: Nitrogen fixation, phosphate solubilizing bacteria, nitrifying bacteria, rhizosphere, mycorrhiza, bio-fertilizer, organic fertilizer, molecular biology, microbial diversity, and soil ecology

PUBLICATIONS:

Thongchai Mala, Audthasit Wongmaneeroj, Suphachai Amkha, **Sirinapa Chungopast**, Dusit Jittanoonta and Chaiya Boonlert. The Effect of Slow Release N Fertilizer on Some Soil Properties and Growth of Tomato Seedling. *Khon Kaen Agriculture Journal* 41: 121-134, 2013

Sirinapa Chungopast, Pilunthana Thapanapongworakul, Hiroyuki Matsuura, Tan Van Dao, Toshimasa Asahi, Kuninao Tada, Shigeyuki Tajima, Mika Nomura. Glutamine synthetase I-deficiency in *Mesorhizobium loti* differentially affects nodule development and activity in *Lotus japonicus. Journal of Plant Physiology*, 171:104-108, 2014

Sirinapa Chungopast, Hideki Hirakawa, Shusei Sato, Yoshihiro Handa, Katsuharu Saito, Masayoshi Kawaguchi, Shigeyuki Tajima, Mika Nomura. Transcriptomic profiles of nodule senescence in *Lotus japonicus* and *Mesorhizobium loti* symbiosis. *Plant Biotechnology*, 31: 345–349, 2014

Pumin Yimming, Punyisa Trakoonyingcharoen1, Kumut Sangkhasila, Thawatchai Inboonchuay and **Sirinapa Chungopast**. The appropriate mixing of rice husk and sand with Saraburi series to make adobe brick for earth construction. *Khon Kaen Agriculture Journal* 44 (2): 321-326, 2016

Apapron Khantee, **Sirinapa Chungopast**, and Thongchai Mala. Phosphatase activity amendment and N-mineralization in soil as influenced from mycorrhiza associated maize and the different levels paper sludge compost. *Thai Journal of soils and Fertilizers* 38(1-4). 6-22, 2016

Sirinapa Chungopast, Mallika Duangkhet, Shigeyuki Tajima, Jian Feng MA, and Mika Nomura. Iron-induced nitric oxide leads to an increase in the expression of ferritin during the senescence of *Lotus japonicus* nodules. *Journal of Plant Physiology*, 208: 40-46, 2017

Mallika Duangkhet, Yamikani Chikoti, Apiraya Thepsukhon, Pilunthana Thapanapongworakul, **Sirinapa Chungopast**, Shigeyuki Tajima, Mika Nomura. Isolation and characterization of rhizobia from nodules of *Clitoria ternatea* in Thailand. *Plant Biotechnology*, 35, 123–129, 2018

Preecha Yodying, Sirina Thongdonnoi, and Sirinapa Chungopast. Isolation of cellulose-degrading bacteria and effective of corncob and water hyacinth decomposition using as substrates. *Khon Kaen Agriculture Journal* 47(1): 177-186, 2019

CONFERENCES

Sirinapa Chungopast, Patoomporn Chim-anage, Amornrat Promboon, and Sunanta Ratanapo.. Purification and Characterization of Alkaline Protease from *Bacillus* sp. A39. Session B2 (Microbiology); B2_B0122, Lecture Building 3, Room No. 3 – 209. 33rd Congress on Science and Technology of Thailand. October 20, 2007.

Sirinapa Chungopast, Patoomporn Chim-anage, Amornrat Promboon, and Sunanta Ratanapo. Purification and Characterization of Alkaline Protease from *Bacillus* sp. A39 1st Biochemistry and Molecular Biology (BMB) Conference: Biochemistry and Molecular Biology for the Integration of Life. (Session 4: Biotechnology (P4-01 - 4-12); P4-05).Bangkok, Thailand. April 26-27, 2007. Page 67.

Uraiwan Ninpetch, **Sirinapa Chungopast**, Patoomporn Chim-anage , Sunanta Ratanapo, Tipvadee Attathom and Amornrat Promboon. 2008. Degumming of hand-made silk

yarns with proteases. 1st Mulberry-silkworm Academic Conference Nation. 22-23 September 2008, Biochemistry Department, Faculty of Science, Kasetsart University

Sirinapa Chungopast, Thongchai Mala, Jirawat Phumphet and Wantanee Phungsang. The Interaction between Phosphorus and Nitrogenase Activity of *Azospirillum* in Suwan 5 Maize. The 4th Workshop of Corn and Sorghum Research Project of Kasetsart University. June 18, 2010.

Thongchai Mala, **Sirinapa Chungopast**, Wantanee Phuengsaeng Jirawat Phumphet, and Sukhum chotechuangmanirat. The effect of green manure, nitrogen fixing and phosphate solubilizing microorganisms on some properties of soil and growth of Insee 2 sweet corn in Kamphaengsaen soil series. The thirty-fifth national corn and sorghum research conference. Maruay garden hotel, Bangkok, 24-27 May 2011, pp 111-130

Thongchai Mala, Jirawat Phumphet, Wantanee Phuengsaeng and **Sirinapa Chungopast**. The effect of arbuscular mycorrhizal fungi on the growth enhancement and phosphorus uptake of insee 2sweet corn. The thirty-fifth national corn and sorghum research conference. Maruay garden hotel, Bangkok, 24-27 May 2011, pp 161-167

Foyfa Shutidamrong, Suphachai Amkha, **Sirinapa Chungopast**, Thian Wittayawarakul, and Thareerat Chuenchomsang. Effects of land use changes from natural forests to agro-ecosystems on soil quality and soil microbial diversity. The 5th international congress on environmental research. 22 - 24 November 2012, Terengganu Malaysia

Sirinapa Chungopast, Mika Nomura, Shigeyuki Tajima, Nanthipak Thapanapongworakul, Hiroyuki Matsuura, Yoshikazu Shimoda, Shusei Sato. Metabolic Regulation of nodule senescence between *L. japonicus* and *M. loti* mutant (STM 30) symbioses. The 22th Annual Meeting for Plant-Microbe Interactions Program. Kobe, Japan. 2012 September 25-27

Sirinapa Chungopast, Mika Nomura, Shigeyuki Tajima, Nanthipak Thapanapongworakul and Hiroyuki Matsuura. A mechanism of nitrogen-fixing symbiosis between *L. japonicus* AND *M. loti*, glutamine-synthetase deficiency mutant. The 2nd Asia Conference on Plant-Microbe Symbiosis and Nitrogen Fixation, Phuket Thailand. Oct 28-31, 2012

Sirinapa Chungopast, Hiroyuki Matsuura, Pilunthana Thapanapongworakul, Shigeyuki Tajima, Mika Nomura. Deficient glutamine synthetase mutant induces early nodule senescence in *Lotus japonicus*. 18th International Congress on Nitrogen Fixation in Miyazaki, October 14–18, Japan 2013

Sirinapa Chungopast, Hideki Hirakawa, Shusei Sato, Yoshihiro Handa, Katsuharu Saito, Masayoshi Kawaguchi, Shigeyuki Tajima, Mika Nomura. Insight into the nodule senescence in the symbiosis between *L. japonicus* and *M. loti*. 11th European Nitrogen Fixation Conference, 7 - 10 September 2014, Tenerife Spain

Thongchai Mala, **Sirinapa Chungopast**, and Wantanee Phungsang. Effect of no-tillage and tillage cultivation on the yield of Insee 2 sweet corn. 54th Kasetsart university annual conference, 2-5 February 2016, Thailand

Chanat Wongsiwasaku and **Sirinapa Chungopast**. Screening of effective bacteria in cassava waste and paper sludge degradation. The 5th National Soil and Fertilizer Conference, 1 – 2 August 2017, Thailand

BOOK & REPORT

Thongchai Mala, **Sirinapa Chungopast**, Kanokkorn Sinma, Chawalit Hongprayoon and Wantanee Phungsang. 2018. Soil Microbiology laboratory. Soil Science Department, Faculty of Agriculture Kamphaengsaen,Kasetsart University, Kamphaengsaen Campus. 44 p.

Thongchai Mala, Chatchai Keosonthi., Chuti Moungprasert, Chaisit Thongju, Suphachai Amkha and **Sirinapa Chungopast**. 2008. Quality control and Production Process Improvement of Pellet Organic Fertilizer in Various Farmer Groups. A summary report of research.