

เอกสารหมายเลข 1  
ผลงานทางวิชาการย้อนหลัง 5 ปี

## ผลงานทางวิชาการอาจารย์ผู้รับผิดชอบหลักสูตร/อาจารย์ประจำหลักสูตร /อาจารย์ผู้สอน

อาจารย์สุรพัศ คำไทย

### ผลงานวิจัยระดับนานาชาติ

1. Jainan, A., Deenu, A. and Kamthai, S. 2018. Biopolymer Film Based on Rice Straw Carboxymethyl Cellulose (CMCr) and Chiang Mai University (CMU) Purple Rice Carboxymethyl Flour (CMF). Chiang Mai Journal of Science, In Press.
2. Kamthai, S. and Magaraphan, R. (2017). Mechanical and barrier properties of spray dried carboxymethyl cellulose (CMC) film from bleached bagasse pulp. Industrial Crops & Products. 109. 753-761.
3. Jainan, A., Deenu, A., Naruenartwongsakul, S., Rayiyan, P., Sangsuwan, J. and Kamthai, S. (2017). Preliminary Study of Alkaline Pretreatment Effect on Carboxymethyl Flour (CMF) from Chiang Mai University (CMU) Purple Rice Properties. Chiang Mai Journal of Science, 44(4) : 1624-1632.
4. Kamthai, S. and Magaraphan, R. 2014. Thermal and Mechanical Properties of Polylactic Acid and Bagasse Carboxymethyl Cellulose (CMC<sub>B</sub>) by Adding Isosorbide Diesters. In PPS-30, 350 – 354.

### ผลงานระดับชาติ

1. แพรวดา โสภา, ملทินี กันทาเดช, กนกกาญจน์ พรณไทร, วรรณิกา คำวงศ์สวัสดิ์, และ สุรพัศ คำไทย .2560. ประสิทธิภาพของกระดาษเคลือบสารดูดซึบเอทิลีนเพื่อยืดอายุการเก็บรักษาของมะม่วง นำ้ดอกไม้ .วารสารวิทยาศาสตร์เกษตร, 48(3)(พิเศษ) :(339-342).
2. นิตยา กาสกุล พัชรีวรรณ ซาบุญตัน, วิชญ์ วัชรวิภา, นันท์นภัสส์ แก้วเสี้ยม, และ สุรพัศ คำไทย .2560ประสิทธิภาพของถุงบรรจุภัณฑ์เพื่อยืดอายุการเก็บรักษาผักกาดหอมตัดแต่ง .วารสาร วิทยาศาสตร์เกษตร, .378-375 :(พิเศษ)(3)48
3. กฤตยา ศรีเมธี, คฑาวนิช ศุกรภาส และ สุรพัศ คำไทย .2559 .ประสิทธิภาพของกระดาษเคลือบเยก ชานลาในการยับยั้งการเจริญเติบโตของเชื้อราแอนแทรคโนสและราข้าวหนี่ในกลัวยหอมทอง . วารสารวิทยาศาสตร์เกษตร, .82-79 :(พิเศษ)(3)47
4. ณัฐรัตน์ จินาพันธ์, เจิมขวัญ สังข์สุวรรณ, สุทธิรา สุทธิสุภา และ สุรพัศ คำไทย .2559 .ผลของพิล์ม คาร์บอฟอร์เมทิลเซลลูโลสจากฟางข้าวผสมพอลิเอทิลีนไกลคอลต่ออายุการเก็บรักษามะม่วงนำ้ดอกไม้ . วารสารวิทยาศาสตร์เกษตร, )(3)47พิเศษ.360-357 :

### สิทธิบัตรและอนุสิทธิบัตร

1. สิทธิบัตร เรื่อง กระบวนการผลิตแป้งкар์บอฟอร์เมทิลจากข้าวกำหมายเลขคำขอสิทธิบัตรเลขที่ 1601005628 (2559)

2. สิทธิบัตร เรื่อง กระบวนการผลิตพลาสติกสีเขียวโดยใช้เศษกลูโคสโดยเทคนิคแอนด์แคปซูลเข้าและอบลมร้อนแบบพ่นฟอย หมายเลขคุขอสิทธิบัตรเลขที่ 1601007890 (2559)

อาจารย์ ดร.ลินดา ถิรภัทรพันธ์

ผลงานทางวิชาการ

1. วิญญา ศักดาทร และ ลินดา ถิรภัทรพันธ์ .(2558). รายงานวิจัยการพัฒนาผลิตภัณฑ์เซลลูโลสโดยใช้เศษกลูโคสและเยื่อกระดาษจากครั่งของบริษัท นอร์ทเทอร์นสยามชีดแลค จำกัด: โครงการสนับสนุนการพัฒนาเทคโนโลยีของอุตสาหกรรมไทย สำนักงานวิทยาศาสตร์และเทคโนโลยีแห่งชาติ ภาคเหนือ
2. Nisa Promsen, Suparada Tagan and Linda Thiraphattaraphun. (2018). Starch Foams Based on Rice Starch/Rice Straw Fiber. PCT-8: The International Polymer Conference of Thailand Proceedings Book, June 14<sup>th</sup>-15<sup>th</sup> 2018, 116-120.

ผศ. ดร.กิตติศักดิ์ จันทนสกุลวงศ์

ผลงานทางวิชาการ

1. Jantanasakulwong, K., Jantrawut, P.a, Chaiwarit, T.a, Brachais, C.H., Chambin, O. Effect of plasticizer type on tensile property and in vitro indomethacin release of thin films based on low-methoxyl pectin, Polymers Volume 9, Issue 7, Article number 28920 July 2017
2. Jantanasakulwong, K., Leksawasdi, N., Jinsiriwanit, S., Moukamnerd, J., Kuntiya, A., Chaiyaso, T., Hanmoungjai, P., Seesuriyachan, P., Maniyom, S., Tochampa, W., Sommanee, S., Nunta, R., Wattanapanom, B., Mahakuntha, C., Khemacheewakul, J., Sanguanchaipaiwong, V., and Techapun, C.Biorefinery Production from Biomaterials by Zero Waste Technology Year I & II. The 8th Renewable Energy Workshop. Shanghai Jiao Tong University, Minghang Campus, Shanghai, People Republic of China. 19 – 22 November 2017. Oral Presentation: 10.00 – 10.20, 21 November 2017.
3. Jantanasakulwong, K.,\* Leksawasdi, N., Seesuriyachan, P., Wongsuriyasak, S. Techapun, C.,Ouizawa, T. Reactive blending of thermoplastic starch, epoxidized natural rubber and chitosan., European Polymer Journal. 2016, 153, 89-95. (IF= 3.485)
4. Jantanasakulwong, K.,\* Leksawasdi, N., Seesuriyachan, P., Wongsuriyasak, S. Techapun, C.,Ouizawa, T. Reactive blending of thermoplastic starch and polyethylene-graft-maleic anhydride with chitosan as compatibilizer., Carbohydrate Polymers. 2016, 84, 292-299.(IF= 4.219)
5. “Reactive blending of thermoplastic starch, epoxidized natural rubber and chitosan”

Kittisak Jantanasakulwonga, Noppol Leksawasdia, Phisit Seesuriyachana, Somchai Wongsuriyasaka, Charin Techapuna, Toshiaki Ougizawab European Polymer Journal Volume 84, November 2016, Pages 292–299  
<http://www.sciencedirect.com/science/article/pii/S0014305716306206>

6. “Reactive blending of thermoplastic starch and polyethylene-graft-maleic anhydride with chitosan as compatibilizer” Kittisak Jantanasakulwonga, Noppol Leksawasdia, Phisit Seesuriyachana, Somchai Wongsuriyasaka, Charin Techapuna, Toshiaki Ougizawab Carbohydrate Polymers Volume 153, 20 November 2016, Pages 89–95  
<http://www.sciencedirect.com/science/article/pii/S014486171630889X>

**อาจารย์สมชาย วงศ์สุริยศักดิ์**

**ผลงานทางวิชาการ**

1. Jantanasakulwong, K.,\* Leksawasd, N., Seesuriyachan, P., Wongsuriyasak, S. Techapun, C.,Ouizawa, T. Reactive blending of thermoplastic starch, epoxidized natural rubber andchitosan., European Polymer Journal. 2016, 153, 89-95. (IF= 3.485)
2. Jantanasakulwong, K.,\* Leksawasd, N., Seesuriyachan, P., Wongsuriyasak, S. Techapun, C.,Ouizawa, T. Reactive blending of thermoplastic starch and polyethylene-graft-maleicanhydride with chitosan as compatibilizer., Carbohydrate Polymers. 2016, 84, 292-299.(IF= 4.219)
3. “Reactive blending of thermoplastic starch, epoxidized natural rubber and chitosan”Kittisak Jantanasakulwonga, Noppol Leksawasdia, Phisit Seesuriyachana, Somchai Wongsuriyasaka, Charin Techapuna, Toshiaki Ougizawab European Polymer Journal Volume 84, November 2016, Pages 292–299  
<http://www.sciencedirect.com/science/article/pii/S0014305716306206>
4. “Reactive blending of thermoplastic starch and polyethylene-graft-maleic anhydride with chitosan as compatibilizer” Kittisak Jantanasakulwonga, Noppol Leksawasdia, Phisit Seesuriyachana, Somchai Wongsuriyasaka, Charin Techapuna, Toshiaki Ougizawab Carbohydrate Polymers Volume 153, 20 November 2016, Pages 89–95  
<http://www.sciencedirect.com/science/article/pii/S014486171630889>

รศ. ดร.พิสิฐ ศรีสุริยจันทร์

International Reviewer for Academic Journals

1. Bioresource Technology, BMC Biotechnology, Chiang Mai Journal of Science, Chemical Engineering Journal, Journal of Food Quality, Journal of Scientific and Industrial Research, Process Biochemistry, Separation Science and Technology, Ultrasonic Sonochemistry

International Publications

1. **Seesuriyachan, P.**, Kawee-Ai, A., Chaiyaso, T. 2017. Green and chemical-free process of enzymatic xylooligosaccharide production from corncob: Enhancement of the yields using a strategy of lignocellulosic destructuration by ultra-high pressure pretreatment. Bioresour Technol. 241. 537-544.
2. Laokuldilok, T., Potivasa, T., Kanhaa, N., Surawang, S., **Seesuriyachan, P.**, Wangtueai, S., Phimolsiripol, Y., Regenstein, M. J. .2017Physicochemical, antioxidant, and antimicrobial properties of chitooligosaccharides produced using three different enzyme treatments. Food Biosci. 18. 28-33.
3. Phimolsiripol, Y., Siripatrawan, U., Teekachunhatean, S., Wangtueai, S., **Seesuriyachan, P.**, Surawang, S., Laokuldilok, T., Regenstein, M. J., Christiani, J. H. .2017Technological properties, in vitro starch digestibility and in vivo glycaemic index of bread containing crude malva nut gum. Inter J. Food Sci. Technol. .52 .1041-1035
4. Chaikham, P., Kemsawasd, V., **Seesuriyachan, P.** 2017. Spray drying probiotics along with maoluang juice plus *Tiliacora triandra* gum for exposure to the in vitro gastrointestinal environments. LWT - Food Sci. Technol. 78. 31-40.
5. Tangtua, J., Techapun, C., Pratanaphon, R., Kuntiya, A., Sanguanchaipaiwong, V., Chaiyaso, T., Hanmoungjai, P., **Seesuriyachan, P.**, Leksawasdi, N., Leksawasdi, N. 2017. Partial Purification and Comparison of Precipitation Techniques of Pyruvate Decarboxylase Enzyme. Chiang Mai J. Sci. 44. 184-192.
6. Jantanasakulwong, K., Leksawasdi, N., **Seesuriyachan, P.**, Wongsuriyasak, S., Techapun, C., Ougizawa, T. 2016. Reactive blending of thermoplastic starch and polyethylene-graft-maleic anhydride with chitosan as compatibilizer. Carbohydrate Polymers. 153. 89-95.
7. Jantanasakulwong, K., Leksawasdi, N., **Seesuriyachan, P.**, Wongsuriyasak, S., Techapun, C., Ougizawa, T. 2016. Reactive blending of thermoplastic starch, epoxidized natural rubber and chitosan. European Polymer Journal. 84. 292-299.

8. Watanabe, M., Techapun, C., Kuntiya, A., Leksawasdi, N., **Seesuriyachan, P.**, Chaiyaso, T., Takenaka, S., Maeda, I., Koyama, M., Nakamura, K. 2016. Extracellular protease derived from lactic acid bacteria stimulates the fermentative lactic acid production from the by-products of rice as a biomass refinery. *Journal of Bioscience and Bioengineering*. (In press)
9. Chaikham, P., Prangthip, P., **Seesuriyachan, P.** 2016. Ultra-Sonication Effects on Quality Attributes of Maoberry (*Antidesma bunius* L.) Juice. *Food Sci. Technol. Res.* (accepted)
9. Boonchuay, P., Takenaka, S., Kuntiya, A., Techapun, C., Leksawasdi, N., **Seesuriyachan, P.**, Chaiyaso, T. 2016. Purification, characterization, and molecular cloning of the xylanase from *Streptomyces thermophilus* TISTR1948 and its application to xylooligosaccharide production. *J. Mol. Catal. B: Enzym.* 129. 61-68.
11. Kawee-Ai, A., Srisuwun, A., Tantiwa, N., Nontaman, W., Boonchuay, P., Kuntiya, A., Chaiyaso, T., **Seesuriyachan, P.** 2016. Eco-friendly processing in enzymatic xylooligosaccharides production from corncob: Influence of pretreatment with sonocatalytic-synergistic Fenton reaction and its antioxidant potentials. *Ultrason Sonochem.* 31:184-92.
12. Monkoondee, S., Kuntiya, A., Chaiyaso, T., Leksawasdi, N., Techapun, C., Kawee-ai, A., and **Seesuriyachan, P.** 2016. Treatability of cheese whey for single-cell protein production in non-sterile systems: Part II. The application of aerobic Sequencing Batch Reactor (aerobic SBR) to produce high biomass of *Dioszegia* sp. TISTR 5792. *Prep. Biochem. Biotech.* 46. 434-439.
13. Monkoondee, S., Kuntiya, A., Chaiyaso, T., Leksawasdi, N., Techapun, C., Kawee-ai, A., and **Seesuriyachan, P.** 2016. Treatability of cheese whey for single-cell protein production in non-sterile systems: Part I. Optimal condition for lactic acid fermentation using a micro-aerobic Sequencing Batch Reactor (micro-aerobic SBR) with immobilized *Lactobacillus plantarum* TISTR 2265 and microbial communities. *Prep. Biochem. Biotech.* 46. 392-398.
14. **Seesuriyachan, P.**, Kuntiya, A., Kawee-ai, A., Techapun, C., Chaiyaso, T., Leksawasdi, N. 2015. Improvement in efficiency of lignin degradation by Fenton reaction using synergistic catalytic action. *Ecol. Eng.* 85. 283-287.
15. Paopang, P., Kasinrerk, W., Tayapiwatana, C., **Seesuriyachan, P.** and Butr-Indr, B.

2015. Multi-parameter optimization method and enhanced production of secreted recombinant single chain variable fragment against the HIV-1 P17 protein from *Escherichia Coli* by fed-batch fermentation. *Prep. Biochem. Biotech.* DOI: 10.1080/10826068.2015.103138
16. Takenaka, S., Miyatake, A., Tanaka, K., Kuntiya, A., Techapun, C., Leksawasdi, N., **Seesuriyachan, P.**, Chaiyaso, T., Watanabe, M., and Yoshida, K.I. 2015. Characterization of the native form and the carboxy-terminally truncated halotolerant form of  $\alpha$ -amylases from *Bacillus subtilis* strain FP-133. *J. Basic Microbiol.* 54. 1-10. doi:10.1002/jobm.201400813.
17. Manochai, P., Phimolsiripol, Y. and **Seesuriyachan, P.** 2014. Response Surface Optimization of Exopolysaccharide Production from Sugarcane Juice by *Lactobacillus confusus* TISTR 1498. *CMU J. NS Special Issue on Food Appl. Biosci.* 13. 425-438.
18. **Seesuriyachan, P.**, **Kuntiya, A.**, **Chaiyaso, T.**, **Hanmuangjai, P.**, **Leksawasdi, N.**, **Techapun**, C. 2014. Enhancement and optimization of exopolysaccharide production by *Weissella confusa* TISTR 1498 in pH controlled submerged fermentation under high salinity stress. *Chiang Mai J. Sci.* 41. 503-512.
19. Surayot, U., Wang, J., **Seesuriyachan, P.**, Kuntiya, A., Tabarsa, M., Lee, Y. J., Kim, J. K., Park, J. W., You, S. G. 2014. Exopolysaccharides from lactic acid bacteria: Structural analysis, molecular weight effect on immunomodulation. *Int. J. Biol. Macro.* 68. 233-240.
20. Surin, S., Thakeow, P., **Seesuriyachan, P.**, Angeli, S., Phimolsiripol, Y. 2014. Effect of extraction and concentration processes on properties of longan syrup. *J. Food Sci. Technol.* 51. 2062-2069.
21. Chaikham, P., Apichartsrangkoon, A. **Seesuriyachan, P.** 2014. Physical and biochemical qualities of pressurized and pasteurized longan juices upon storage. *Emirates J. Food Agri.* 26. 218-228.
22. Tantiwa, N., **Seesuriyachan, P.**, Kuntiya, A. 2013. Strategies to decolorize high concentrations of methyl orange using growing cells of *Lactobacillus casei* TISTR 1500. *Biosci. Biotechnol. Biochem.* 77. 2030-2037.
23. Tangtua, J., Techapun, C., Pratanaphon, R., Kuntiya, A., Chaiyaso, T., Hanmuangjai, P., **Seesuriyachan, P.** and Leksawasdi, N. 2013. Screening of 50 microbial strains

- for production of ethanol and (*R*)-phenylacetylcarbinol. Chiang Mai J. Sci. 40. 299-304.
24. Tantiwa, N., Kuntiya, A. and **Seesuriyachan, P.** 2013. Synergistic Catalytic Action of  $\text{Fe}^0$ ,  $\text{Fe}^{2+}$  and  $\text{Fe}^{3+}$  in Fenton Reaction for Methyl Orange Decolorization. Chiang Mai J Sci. 40. 60-69.

#### National Publications

1. Manowattana, A., **Seesuriyachan, P.**, Techapun, C., and Chaiyaso, T. 2012. Optimization of carotenoids production by red yeast *Sporobolomyces pararoseus* TISTR 5213 using waste glycerol as the sole carbon source. KKU Res. J. 17. 607-621.

#### Conferences

1. Chaiyaso, T., Kuntiya, A., Techapun, C. Leksawasdi, N., **Seesuriyachan, P.**, Takenaka, S. and Watanabe, M. 2014. Purification and characterization of lipase from thermotolerant *Streptomyces thermocarboxydus* ME168 and its application on sugar esters synthesis. (Poster). Abstract page number 145.
2. Takenaka, S., Kuntiya, A., **Seesuriyachan, P.**, Chaiyaso, T., Techapun, C. Leksawasdi, N. and Watanabe, M. 2014. Characterization of halotolerant extracellular enzymes form *Bacillus subtilis* FP-133. New Core to Core Program. Advanced Research Networks, The 1<sup>st</sup> Joint Seminar, 10<sup>th</sup> – 11<sup>th</sup> August 2014, the Centara Grand & Bangkok Convention Centre, Central World, Bangkok, Thailand. (Oral) Abstract page number 44.
3. Manowattana, A., **Seesuriyachan, P.**, Techapun, C., and Chaiyaso, T. Microbial conversion of biodiesel-derived crude glycerol into carotenoids by *Sporobolomyces pararoeus* TISTR5213. AMBC conference. 2014. 19-21 February 2014. Bangkok, Thailand.
4. **Phisit Seesuriyachan**, Ampin Kuntiya, Thanongsak Chaiyaso, Prasert Hanmoungjai, Noppol Leksawasdi, and Charin Techapun. 2013 Influence of azo dye in lactic acid production under open fermentation system from whey by micro-aerobic Sequencing Batch Reactor (micro-aerobic SBR) using free cell suspensions of *Lactobacillus casei* TISTR 1500. The 4th regional AFOB symposium 2012: Bioenergy, biorefinery and beyond. January 17-19, 2013. The Chiangmai Grand View Hotel and Convention Center, Chiang Mai, Thailand.

5. **Phisit Seesuriyachan**, Nidtaya Tantiwa and Ampin Kuntiya. 2013. Optimization of methyl orange decolorization by freely suspended cells of *Lactobacillus casei* TISTR 1500 using Response Surface Methodology (RSM) via Central Composite Design (CCD). The 4th regional AFOB symposium 2012: Bioenergy, biorefinery and beyond. January 17-19, 2013. The Chiangmai Grand View Hotel and Convention Center, Chiang Mai, Thailand.

รองศาสตราจารย์ ดร.พรชัย ราชตันตะพันธุ์

International Publications

1. Noiwan, D., Sutenan, K., Yodweingchai, C. and **Rachtanapun, P.** (2018). "Postharvest Life Extension of Fresh-Cut Mango (*Mangifera indica* cv. Fa-Lun) Using Chitosan and Carboxymethyl Chitosan Coating", *Journal of Agricultural Science*, 10(8), 438-446.
2. Suriyatatem, R., Auras, R. A. and **Rachtanapun, P.** (2017) Improvement of mechanical properties and thermal stability and extension of biodegradability of rice starch-based film with carboxymethyl chitosan, *Industrial Crops and Products*, 122, 37-48.
3. Phokasem, P., Lekhakula, P', Utama-ung, N., **Rachtanapun, P.** and Chantawannakul, P. (2017), "Optimization of Mixed Bacillus Cultures as An Inoculant in Northern Thai Style Fermented Soybeans (*Thua-nao*) by Mixture Design", *Chiang Mai Journal of Science*, 44(2) : 414-426
4. Suriyatatem, R., Auras, R. A., Intipunya, P., and **Rachtanapun, P.** (2017) "Predictive mathematical modeling for EC50 calculation of antioxidant activity and antibacterial ability of Thai bee products", *Journal of Applied Pharmaceutical Science*, 7 (09), pp. 122-133, DOI: 10.7324/JAPS.2017.70917
5. Noiwan, D., Suppakul, P., Joomwong, A., Uthaibutra, J. and **Rachtanapun, P.** (2017) "Kinetics of Mango Fruits cv. Nam Dok Mai Si Thong Quality Changes during Storage at Various Temperatures" to *Journal of Agricultural Science*, 9, (6); 199-212.
6. Anh, D. H., Dumri, K., Anh, N. T., Punyodom, W. and **Rachtanapun, P.** (2016) "Facile Fabrication of Polyethylene/Silver Nanoparticles Nanocomposites Using Silver Nanoparticles Traps and Holds Early Antibacterial Effect" *Journal of Applied Polymer Science*, 133 (17), 43331 (1-8)

7. Quyen, D. T. M. and **Rachtanapun, P.** (2016) "Effects of Antimicrobial Agents-Carbendazim and Vanillin on Chitosan/Methyl Cellulose Films Properties", *Journal of Biotechnology*, 14(1A): 503-508.
8. **Rachtanapun, P.**, Kumthai, S., Mulkarat, N., Pintajam, N. and Suriyatem, R. (2015) "Value added of mulberry paper waste by carboxymethylation for preparation a packaging film", *Materials Science and Engineering* 87 (2015) 012081 doi:10.1088/1757-899X/87/1/012081
9. Suriyatem, R., Rachtanapun, C., Raviyan, P., Intipunya, P. and **Rachtanapun, P.** (2015) "Investigation and modeling of moisture sorption behaviour of rice starch/carboxymethyl chitosan blend films", *Materials Science and Engineering* 87, (2015) 012080 doi:10.1088/1757-899X/87/1/012080
10. Chomkitichai, W., Chumyam, A., **Rachtanapun, P.**, Uthaibutra, J., and Saengnil, K. (2014) "Reduction of reactive oxygen species production and membrane damage during storage of 'Daw' longan fruit by chlorine dioxide" *Scientia Horticulturae*, 17(7), 143–149.
11. Chomkitichai, W., Faiyue, B., **Rachtanapun, P.**, Uthaibutra, J., and Saengnil, K. (2014) "Enhancement of the antioxidant defense system of post-harvested 'Daw' longan fruit by chlorine dioxide fumigation ", *Scientia Horticulturae*, 178 (23), 138–144.
12. Suriyatem, R. and **Rachtanapun, P.** (2013). Prediction modeling for moisture sorption isotherms of rice starch/carboxymethyl cellulose from durian rind blend films. *Applied Mechanics and Materials*, 431, 32-36.
13. Chaiwong, C., **Rachtanapun, P.**, Sarapiroa, S. and Boonyawan, D. (2013) "Plasma polymerization of hexamethyldisiloxane: Investigation of the effect of carrier gas related to the film properties", *Surface and Coatings Technology*, 229 (25), 12–17.
14. Wannaruemon, S., Jimtaisong, A. and **Rachtanapun, P.** (2013). "Sodium Carboxymethyl Chitosan as a Fixative for Eau de Cologne", *Tropical Journal of Pharmaceutical Research*, 12 (1): 45-49.
15. Quyen, D. T. M., Joomwong, A. and **Rachtanapun, P.** (2013) Influence of Storage Temperature on Ethanol Content, Mocrobial Growth and Other Properties of Queen Pineapple Fruit, *International of Agriculture & Biology*, 15, 207–214.

ผู้ช่วยศาสตราจารย์ ดร.เจมชวัญ สังข์สุวรรณ

ผลงานวิจัยที่ลงตีพิมพ์ในวารสารวิชาการและรายงานการประชุมวิชาการระดับชาติและระดับนานาชาติ

1 ระดับนานาชาติ

1. Torpol, K., Wiriacharee, P., Sriwattana, S., **Sangsuwan, J.** and Prinyawiwatkul, W. (2018). Antimicrobial activity of garlic (*Allium sativum L.*) and holy basil (*Ocimum sanctum L.*) essential oils applied by liquid vs. vapour phases. *International Journal of Food Science and Technology*, In Press.
2. Panumong P., Kim S.M., **Sangsuwan, J.**, Leksawasdi, N. and Rattanapanone, N. (2018). Influence of Calcium Salts on Quality and Microstructure of Minimally-processed Litchi Fruit. *Chiang Mai Journal of Science*, In Press.
3. Jaimun, R., **Sangsuwan, J.**, Intipunya, P. and Chantrasri, P. (2018). Active Wrapping Paper Against Mango Anthracnose Fungi and Its Releasing Profiles. *Packaging Technology and Science*, 31(6): 421-431.
4. Panumong P., **Sangsuwan, J.** and Rattanapanone, N. (2017). Effect of Modified Atmosphere Packaging with Varied Gas Combinations and Treatment on the Quality of Minimally-Processed Litchi Fruit. *Songklanakarin Journal of Science and Technology*, 39(6): 715-722.
5. Jainan, A., Deenu, A. , Naruenartwongsakul, S., Raviyan, P., **Sangsuwan, J.** and Kamthai, S. (2017). Preliminary Study of Alkaline Pretreatment Effect on Carboxymethyl Flour (CMF) from Chiang Mai University (CMU) Purple Rice Properties. *Chiang Mai Journal of Science*, 44(4): 1624-1632.
6. **Sangsuwan, J.**, Pongsapakworawat, T., Bangmo, P. and Sutthasupa, S. (2016). Effect of Chitosan Beads Incorporated with Lavender or Red Thyme Essential Oils in Inhibiting *Botrytis cinerea* and Their Application in Strawberry Packaging System. *LWT-Food Science and Technology*, 74: 14-20.
7. Panumong P., **Sangsuwan, J.**, Kim S.M. and Rattanapanone, N. (2016). The Improvement of Texture and Quality of Minimally-Processed Litchi Fruit Using Various Calcium Salts. *Journal of Food Processing and Preservation*, 40(6): 1297-1308.
8. Panumong P., Kim S.M., **Sangsuwan, J.** and Rattanapanone, N. (2016).

Combined Effect of Calcium Chloride and Modified Atmosphere Packaging on Texture and Quality of Minimally-Processed Litchi Fruit. *Chiang Mai Journal of Science*, 43(3):556-569.

10. **Sangsuwan, J.**, Rattanapanone, N. and Pongsirikul, I. (2015). Development of Active Chitosan Films Incorporating Potassium Sorbate or Vanillin to Extend the Shelf Life of Butter Cake. *International Journal of Food Science and Technology*, 50(2): 323-330.

## 2. ระดับชาติ

1. รัชฎาพร ใจมั่น, เจิมขวัญ สังข์สุวรรณ และ ปริญญา จันทรศรี. (2560). การประยุกต์ใช้กระดาษเคลือบไคโตซานผสมวนิลลินกับผลมะม่วงพันธุ์น้ำดอกไม้ หลังการเก็บเกี่ยวโดยการห่อเพื่อควบคุมโรคผลเน่าแอนแทรคโนส. การประชุมวิชาการอารักขาพีชแห่งชาติ ครั้งที่ 13 “ปฏิรูปอารักขาพีชไทย สู่ประเทศไทย 4.0 เพื่อความมั่นคง มั่งคั่ง และยั่งยืน” 568-581.
2. รัชฎาพร ใจมั่น, เจิมขวัญ สังข์สุวรรณ และ ปริญญา จันทรศรี. 2558. ประสิทธิภาพของกระดาษเคลือบไคโตซานผสมวนิลลินที่มีต่อการควบคุมโรคแอนแทรคโนส ในผลมะม่วงพันธุ์น้ำดอกไม้. *วารสารวิทยาศาสตร์เกษตร*, 46(3/1)(พิเศษ): 363-366.
3. Sangsuwan, J., Kulsoontorn, K. and Jintana, J. (2014). Properties and Antifungal Effect of Chitosan Film Incorporating Orange Essential Oil. *Journal of Agriculture*, 30(3): 305-314.

ผู้ช่วยศาสตราจารย์ ดร.สุทธิร้า สุทธสุภา

## Publications

1. **Sutthasupa, S\***., Sanda, F., Faungnawakij, K., Meepowpan, P. (2015). Synthesis and Copolymerization of Oligo(Lactic Acid) Derived Norbornene Macromonomers With Amino Acid Derived Norbornene Monomer: Formation of the 3D Macroporous Scaffold. *Journal of Polymer Science, Part A: Polymer Chemistry*, 53: 1660–1670.
2. Sangsuwan, J\*., Pongsapakworawat,T., Bangmo, P., **Sutthasupa, S.** (2016). Effect of chitosan beads incorporated with lavender or red thyme essential oils in inhibiting Botrytis cinerea and their application in strawberry packaging system. *LWT- Food Science and Technology*, 74: 14–20.
3. **Sutthasupa, S\***., Sanda, F. (2016) Synthesis of diblock copolymers of indomethacin/aspartic acid conjugated norbornenes and characterization of their self assembled nanostructures as drug carriers” *European Polymer Journal*, 85: 211–224.

4. **Sutthasupa, S\***, Sanda, F. (2018) Macroporous scaffolds: Molecular brushes based on oligo(lactic acid)-amino acid-indomethacin conjugated poly(norbornene)s *European Polymer Journal*, 98: 162–167.