



Curriculum Vitae

Institute of Nutrition, Mahidol University (INMU)

999 Phutthamonthon 4 Rd., Salaya, Phutthamonthon

Name: Mrs. Pimnapanut Sridonpai (Miss Ajima Wangtong)

E-mail address: pimnapanut.sri@mahidol.ac.th, pimnapanut.sri@gmail.com

Current position: Research Assistant

Education

2011 M.Sc. (Food and Nutrition for Development), Mahidol University, Thailand

2005 B.Sc. (Food technology), Silpakorn University, Thailand

Research Interest and Expertise

1. Body composition and energy metabolism using different techniques
2. Glycemic control and energy balance
3. Diet and behavior modification for patients with diet-related chronic disease
4. Food & Nutrition Program Implementation, Monitoring and Evaluation

Research Experiences

1. Measurement and calculation resting energy expenditure in early adults.
2. Assessment of energy requirements and body composition in Thai elderly.
3. Study of glycemic index of semi-instant wheat noodle and the effects of wheat noodle in breakfast on glucose and insulin response after lunch.
4. Glycemic index of coconut sugar, palm syrup and Nipa palm syrup.
5. Change in glycemic and metabolic rate after consuming Indigenous Durian (*Durio zibethinus* Murr.) Cultivars. (Project in Nutritional Value and Bioactive Compounds for Health Benefit of Indigenous Durian (*Durio zibethinus* Murr.) Cultivars in Nonthaburi Province).
6. Glycemic index of cereal grain and legume products and glycemic response of rice mixed with cereals and grains in elderly with type 2 diabetes.
7. Glycemic index of cereal grain and legume products and glycemic response of rice mixed with cereals and grains in elderly with type 2 diabetes.
8. Effect of pre-germinated parboiled brown rice on blood glucose, insulin, lipid profiles, immunity and memory in elderly with type 2 diabetes.



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9. Serum cholesterol lowering efficacy of biscuit with added plant stanol ester.
10. Effect of sausage added capsaicinoids and grape seed extract on resting metabolic rate and triglycerides in overweight or obese adults.
11. Bioavailability of protein in mung bean meal.
12. Effects of coconut milk consumption on changes in plasma lipids and cardiovascular risk factors in healthy volunteers.
13. Development Nutrition Screening Tool for Patients with Chronic Obstructive Pulmonary Disease (COPD).
14. Study on the attitude, knowledge and sugar sweetened beverages consumption behaviors of the undergraduate students and government university staffs and the vendors' attitudes towards public policy to reduce sugar content in the beverages.
15. Efficacy of fiber-multivitamin combination on glycemic control, lipid profiles and body composition in adults with impaired fasting glucose and patients with type 2 diabetes.
16. Study on total energy expenditure and basal metabolic rate of Thai adult with sedentary behavior.
17. Healthy food management for BLCP power station's staff.
18. Effects of different doses of selected Durian (*Durio zibethinus Murr.*) varieties on glucose and insulin responses in healthy and type 2 diabetic subjects.
19. Development of ready-to-feed enteral formula.
20. Study on postprandial glycemic response of Glucomeal in type 2 diabetes.
21. A longitudinal study on body composition, energy expenditure, and feeding practices of 6 to 23 months old infants
22. Metabolic availability of L-lysine from two differently processed milk powders using indicator amino acid oxidation (IAAO) technique (INSPIRE).
23. Nutrition status, body composition and energy expenditure in children with acute lymphoblastic leukemia before, during and after completed treatment.
24. Development of low glycemic index ready-to-eat blenderized diet in retort pouch.
25. Effects of coconut milk consumption on changes in plasma lipids and other cardiovascular risk factors in adults with hypercholesterolemia



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Training

- 2025 Radiation Safety Regulations and Authorization Procedures, Mahidol University at Rooms 217–218, 2nd Floor, Sirivitaya Building, Faculty of Liberal Arts, Mahidol University, Salaya Campus, organized by the Center of Occupational Safety, Health and Environment Management (COSHEM). November 24, 2025
- 2020 Online Virtual Training Conference, CRP 43033 Workshop, organized by the International Atomic Energy Agency (IAEA), November 17–18, 2020.
- 2020 Basic Clinical Statistics (STATA Program), January 4–5, 2020, 15th Floor Conference Room, Chalerm Phra Barami Building, Maharaj Nakorn Chiang Mai Hospital, Chiang Mai, Thailand.
- 2019 The Regional Training Course on Assessing Anthropometry, Total Body Water, and Total Energy Expenditure in Infants, Faculty of Allied Health Sciences, Universiti Kebangsaan Malaysia, April 7–13, 2019, Kuala Lumpur, Malaysia.
- 2019 “Workshop on the Development of Academic Cooperation Projects with the International Atomic Energy Agency”, February 20, 2019, Office of Atoms for Peace, Bangkok, Thailand.
- 2018 Mahidol Radiation Safety Training at Salaya Pavilion, Mahidol University. August 21, 2018
- 2017 1st Workshop on Fundamental of Flavor Science at The Aetas Lumpini, Bangkok Thailand. November 9 – 10, 2017.
- 2017 Regional workshop on data management and data evaluation under Project: Preventing Overweight and Obesity, and Promoting Physical Activity among Children and Adolescents at Furama Xclusive Sathorn Hotel, Bangkok Thailand. September 18-22, 2017.
- 2017 Mahidol Radiation Safety Training at Mahidol Learning Center, Mahidol University. July 19, 2017
- 2016 Human Subject Protection in Social Science Research No.1/2016 at Mahidol Learning Center, Mahidol University. March 30, 2016.
- 2015 Human Subject Protection in Biomedical Research No.2/2015 at Mahidol Learning Center, Mahidol University. September 17, 2015.
- 2014 Mahidol Radiation Safety Training at Salaya Pavilion, Mahidol University. September 3-5, 2014.



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- 2014 “Assessing Body Composition and Total Energy Expenditure in Children” at Children's Nutrition Research Centre, University of Queensland, Australia. July 7 – August 29, 2014.
- 2014 Basic Good Clinical Practice (GCP) for Biomedical Research (GCP Training) at Office of President, Mahidol University. June 19-20, 2014.
- 2014 “DXA Training for project” at Institute of Nutrition, Mahidol University. February 3-6, 2014.
- 2013 Research methodology & Sample Size Calculation. Office of President, Mahidol University. July 29, 2013.
- 2013 “The principal components of body composition from dual-energy x-ray absorptiometry: Using PCA to discover patterns of adiposity and muscularity related to disease state and progression” at Institute of Nutrition, Mahidol University. April 29 – May 2, 2013.
- 2012 Informed consent process at Office of President, Mahidol University. February 17, 2012.
- 2010 Ethics Training Program for Human Research at Faculty of Graduate Studies, Mahidol University. September 8, 2010.

Certification

- 2021 Registered Dietitian (Medical Registration Division, Department of Health Service Support, Ministry of Public Health)
- 2020 Certification of diabetes educator (Faculty of Medicine Siriraj Hospital)
- 2018 Radiation Safety Officer (RSO (Intermediate Level))
- 2012 Certified Dietitian of Thailand (CDT)

Publications

National

Sutantangjai J, **Sridonpai P**, Prachansuwan A, Vinitchagoon T, Kriengsinyos W. Association Between Socio-Demographic Factors; Perception and Use of the Healthier Choice Logo Among Thai Adults. *J Health Sci Med Res.* 2025;43(5): e20251178. doi: 10.31584/jhsmr.20251178.

Sridonpai P, Tongdonpo K, Srisungwan S, Kriengsinyos W. Investigation of Glycemic Index in Natural Cane Sugar. *J Nutr Assoc Thailand [internet].* 2025 Feb. 6 [cited 2026 Jan. 31];60(1):14-23. available from: <https://he01.tci-thaijo.org/index.php/JNAT/article/view/275925>



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Aekwirodjanasakul S, Jeamthong P, **Sridonpai P**. Nutritional Assessment of Chronic Kidney Disease Patients Undergoing Hemodialysis Using the Nutrition Alert Form (NAF) Compared with the Malnutrition Inflammation Score (MIS) at Samutprakarn Hospital. *Samutprakarn Hospital Journal (SMPK HOS J)*. 2024 Dec 31;2(2):2-17.

Trangcasanchai P, Thiyajai P, **Sridonpai P**, Tongdonpo K, Kitdumrongthum S, Kriengsinyos W, Prachansuwan A. Development and Validation of a Semi-Quantitative Food Frequency Questionnaire for Assessing Prebiotic and Probiotic Intake among Thai Adults. *J Nutr Assoc Thailand* [internet]. 2024 Oct. 30 [cited 2026 Jan. 31];59(2):67-80. available from: <https://he01.tci-thaijo.org/index.php/JNAT/article/view/273345>

Sridonpai P, Tongdonpo K, Prachansuwan A, Purttiponthanee S, Winuprasith T, Rungraung N, Muangpracha N, Kriengsinyos W. Glycemic Index and the Impact of Ready-to-Use Blenderized Diet on Glucose and Insulin Levels in People with Type 2 Diabetes Mellitus. *J Nutr Assoc Thailand* [internet]. 2024 Apr. 27 [cited 2026 Jan. 31];59(1):47-59. available from: <https://he01.tci-thaijo.org/index.php/JNAT/article/view/269266>

Sridonpai P, Sridonpai P, Puwastien P, Nakngamanong Y, Sirichakwal P. Sugar Content in Sugar-sweetened Beverages Sold in and Surrounding University: Case Study at Mahidol University, Salaya Campus. *Thai Journal of Public Health*. 2019 May 13;49(1):32-44.

Sridonpai P, Aramdoung P, Srichan W, Visetchart P, Kriengsinyos W. Study on Total Energy Expenditure and Physical Activity Level in Thai Adults with Sedentary Behavior. *J Nutr Assoc Thailand* [internet]. 2020 Dec. 31 [cited 2026 Jan. 13];55(2):86-9. available from: <https://he01.tci-thaijo.org/index.php/JNAT/article/view/245644>

Sridonpai P, Visetchart P, Suksanan W, Tongdonpo K, Srichan W, Kriengsinyos W, Thasanasuwan W. (2020). Factors predicting the visceral fat area in functionally independent Thai elderly. *Journal of Gerontology and Geriatric Medicine*, 19(3), 1-12.

Sridonpai P, Sridonpai P, Puwastien P, Nakngamanong Y, Sirichakwal P. (2019). Sugar content in sugar-sweetened beverages sold in and surrounding university: case study at Mahidol University, Salaya campus. *Journal of Public Health*, 49(1). 32-44.

Sridonpai P, Komindr S, Kriengsinyos W. Impact of isomaltulose and sucrose-based breakfasts on postprandial substrate oxidation and glycemic/insulinemic changes in type-2 diabetes mellitus subjects. *J. Med. Assoc. Thai*. 2016;99(3):282-9.



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International

- Gaewkhiew P, Chatyanan S, Supavaree S, Chaiueai A, Vimolratchataporn A, **Sridonpai P**. The impact of nutrition counselling via online application on nutrient intake among Thai older adults during COVID-19: pilot study of randomised controlled trial. *BMC Public Health*. 2025 Oct 30;25(1):3672. DOI: 10.1186/s12889-025-24655-3.
- Thiyajai P, Trangcasanchai P, Thapprathum P, Soonkum T, **Sridonpai P**, Kitdumrongthum S, Judprasong K, Kriengsinyos W, Prachansuwan A. Faecal short-chain fatty acids and nutritional factors in Thai adults with hypercholesterolaemia compared to normocholesterolemic subjects. *International Journal of Food Sciences and Nutrition*. 2025 Jul 2:1-3. DOI: 10.1080/09637486.2025.2525901. Epub 2025 Jul 2.
- Chotwanvirat P, Prachansuwan A, **Sridonpai P**, Kriengsinyos W. Advancements in using AI for dietary assessment based on food images: Scoping review. *Journal of Medical Internet Research*. 2024 Nov 15;26:e51432. DOI: 10.2196/51432
- Sridonpai P**. Total Energy Expenditure and Nutritional Status in Pediatric Leukemia Patients. *Canadian Journal of Dietetic Practice and Research*. 2024 Sep 1;85(3):359-. <https://www.proquest.com/scholarly-journals/total-energy-expenditure-nutritional-status/docview/3121181347/se-2?accountid=46528>
- Kriengsinyos W, **Sridonpai P**, Sridonpai P, Tongdonpo K. Nutrient Profiles of Commercial Complementary Foods Available in Thailand. *Canadian Journal of Dietetic Practice and Research*. 2024 Sep 1;85(3):357-.
- Kriengsinyos W, **Sridonpai P**, Prachansuwan A. Using Nutrient Profile Models to Demonstrate the Nutrient Quality of Thai Side Dishes and Build Healthy Meals. *Current Developments in Nutrition*. 2024 Jul 1;8. DOI: 10.1016/j.cdnut.2024.103279
- Chotwanvirat P, Prachansuwan A, **Sridonpai P**, Kriengsinyos W. Automated artificial intelligence–based Thai food dietary assessment system: Development and validation. *Current Developments in Nutrition*. 2024 May 1;8(5):102154. <https://doi.org/10.1016/j.cdnut.2024.102154>
- Wongdokmai R, **Sridonpai P**, Prachansuwan A. Effects of nut and legume powder substitution in crackers prepared with wheat flour on postprandial plasma glucose response among healthy Thai adults. *Malaysian Journal of Nutrition*. 2024 Apr 1;30(1). 95-106. <https://doi.org/10.31246/MJN-2023-0056>
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- Sengkhamyong K, Taikeophithoun C, Phommyxay T, **Sridonpai P**, Pongcharoen T, Gowachirapant S. Nutritional status and iodized salt use among school-aged children living in Phu Kut city, Xieng Khouang province, Lao PDR. In ANNALS OF NUTRITION AND METABOLISM 2023 Aug 1 (Vol. 79, pp. 619-620). ALLSCHWILERSTRASSE 10, CH-4009 BASEL, SWITZERLAND: KARGER.
- Julai K, **Sridonpai P**, Ngampeerapong C, Tongdonpo K, Suttisansanee U, Kriengsinyos W, On-Nom N, Tangsuphoom N. Effects of extraction and evaporation methods on physico-chemical, functional, and nutritional properties of syrups from Barhi dates (*Phoenix dactylifera* L.). *Foods*. 2023 Mar 16;12(6):1268. <https://doi.org/10.3390/foods12061268>
- Ua-areechit T, Suteerointrakool O, Pongcharoen T, Winichagoon P, Judprasong K, Murphy-Alford AJ, Lee WT, Potip B, **Sridonpai P**, Tongchom W, Chomtho S. Breastfeeding duration is associated with higher adiposity at 6–8 months of age. *Maternal & child nutrition*. 2023 Jan;19(1): e13438. DOI: 10.1111/mcn.13438. Epub 2022 Oct 18. DOI: 10.1111/mcn.13438
- Niratisayakul R, **Sridonpai P**, Kriengsinyos W, Tasorn S. Body Composition and Body Satisfaction of the Bodybuilding and Physique Sports from Bangkok Sports. In Proceedings of the 2nd IPB International Conference on Nutrition and Food 2022 (p. 179).
- Sridonpai P**, Prachansuwan A, Praengam K, Tuntipopipat S, Kriengsinyos W. Postprandial effects of a whey protein-based multi-ingredient nutritional drink compared with a normal breakfast on glucose, insulin, and active GLP-1 response among type 2 diabetic subjects: a crossover randomised controlled trial. *Journal of Nutritional Science*. 2021 Jan;10: e49. DOI: 10.1017/jns.2021.41. eCollection 2021.
- Kriengsinyos W, Judprasong K, **Sridonpai P**, Suksanan W. Assessment of resting, activity and total energy expenditure in free-living Thai elderly: A pilot study. In International Symposium on Understanding the Double Burden of Malnutrition for Effective Interventions. Book of Abstracts 2018 Jan 1 (No. IAEA-CN--268, pp. 237-237).
- Kriengsinyos W, **Wangtong A**, Komindr S. Serum cholesterol reduction efficacy of biscuits with added plant stanol ester. *Cholesterol*. 2015:353164. doi: 10.1155/2015/353164.