

**Assistant Professor Siriporn Sangsuthum, Ph.D.**

Faculty of Allied Health Sciences Chulalongkorn University

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**RESEARCH CLUSTER – CHULALONGKORN UNIVERSITY**

Medical Innovations Towards Health Security and Sustainability

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**RESEARCH INTEREST**

- Mass spectrometry-based method development for quantitation of contaminants and toxic substances in biological fluids and food products.
- Detection of the oxidized and modified peptides by Mass Spectrometry.
- Alterations in proteomics profiles and metabolism in metabolic diseases.

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**EDUCATION**

2011 PhD (Biomedical Sciences), Chulalongkorn University, Bangkok, Thailand  
2003 MSc (Biotechnology), Chulalongkorn University, Bangkok, Thailand  
1995 BSc (General Science), Chulalongkorn University, Bangkok, Thailand

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**TRAINING**

Oct - Dec 2021      พัฒนาศักยภาพของอาจารย์ให้มีสมรรถนะด้านออกแบบหลักสูตร  
และรายวิชาตามแนวทางการจัดการศึกษาแบบมุ่งผลลัพธ์  
(Outcome-based Education) Bangkok, Thailand

May - May 2021      “พัฒนาศักยภาพหน่วยงานที่เกี่ยวข้องกับกระบวนการรับรอง  
ห้องปฏิบัติการตามมาตรฐานสากล ISO15189, ISO15190,  
ISO22870” (ครั้งที่ 5) เรื่อง Method Verification and Method  
Validation Bangkok, Thailand

Jul - Jul 2021	หลักสูตร AUN-QA Implementation and Gap Analysis version 4 รุ่นที่ 2 Bangkok, Thailand
Feb - Feb 2021	“พัฒนาศักยภาพหน่วยงานที่เกี่ยวข้องกับกระบวนการรับรองห้องปฏิบัติการตามมาตรฐานสากล ISO15189, ISO15190 และ ISO22870” (ครั้งที่ 2) Bangkok, Thailand

## PROFESSIONAL EXPERIENCE

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2022 – Present	Assistant Professor, Medical Technology Branch, and Graduate Program in Clinical Biochemistry and Molecular Medicine, Department of Clinical Chemistry, Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok, Thailand.
2014 - 2022	Lecturer, Medical Technology Branch, and Graduate Program in Clinical Biochemistry and Molecular Medicine, Department of Clinical Chemistry, Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok, Thailand.
2022 - Present	Peer Reviewer for Srinagarind Medical Journal, Faculty of Medicine, Khon Kaen University, Thailand
2019 - Present	Peer Reviewer for Journal of the Medical Technologist Association of Thailand
2014 - Present	Secretary of Graduate Program in Clinical Biochemistry and Molecular Medicine, Department of Clinical Chemistry, Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok, Thailand.

## PUBLICATIONS

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1. **Siriporn sangsuthum**, Kiettisak Janjirasan, Prapapin Kanjanophas, Jirapa Cuppong, Nattakarn Dejnirattisai, Dounpen Naklai, Kamontip Phuangphum, Pittaya Kummee, Samang Muraca, Viroj Boonyaratanakornkit.. Risk of lead and cadmium exposure in preschool children in Bangkok E-waste recycling area. Journal of the Medical Technologist Association of Thailand. 2021; 49(3); 7861-7879.
2. Pichitpunpong C., Thongkorn S., Kanlayaprasit S., Yuwattana W., Plaingam W.,.....**Sangsuthum** et al. Phenotypic subgrouping and multi-omics analyses reveal

- reduced diazepam-binding inhibitor (DBI) protein levels in autism spectrum disorder with severe language impairment. PLOS ONE. 2019; 14(3);
3. Plaingam W., **Sangsuthum S.**, Angkhasirisap W., Tencomnao T.. Kaempferia parviflora rhizome extract and Myristica fragrans volatile oil increase the levels of monoamine neurotransmitters and impact the proteomic profiles in the rat hippocampus: Mechanistic insights into their neuroprotective effects. Journal of Traditional and Complementary Medicine. 2017; 7(4); 538-552.
  4. Kawjit N., Charueksereesakul T., Thongrakard V., **Sangsuthum S.**, Tencomnao T.. Suppressive effect of ethanolic extract of Annona squamosa L. leaves on the expression of Id1 biomarker: Phytochemical investigation and antioxidant activity study. Journal of Chemical and Pharmaceutical Research. 2014; 6(1); 499-506.
  5. **Sangsuthum S.**, Dahlan W., Sirikwanpong S., Sangvanich P., Sapwarabol S.. The influence of insulin resistance on very low-density lipoprotein proteome changes in type 2 diabetes after oral high-fat meal loading: A pilot study. Journal of Chemical and Pharmaceutical Research. 2011; 3(4); 257-269.
  6. Sirikwanpong S., Dahlan W., Ngamukote S., **Sangsuthum S.**, Adisakwattana S.. The Alterations of Erythrocyte Phospholipids in Type 2 Diabetes Observed after Oral High-Fat Meal Loading: The FTIR Spectroscopic and Mass Spectrometric Studies. JOURNAL OF CLINICAL BIOCHEMISTRY AND NUTRITION. 2010; 47(2); 111-120.
  7. Sirikwanpong S., Dahlan W., Ngamukote S., **Sangsuthum S.**, Adisakwattana S.. The alterations of erythrocyte phospholipids in type 2 diabetes observed after oral high-fat meal loading: The FTIR spectroscopic and mass spectrometric studies. Journal of Clinical Biochemistry and Nutrition. 2010; 47(2); 111-120.

## CONFERENCE PAPERS

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1. Sirichai T., Prueksasit T., **Sangsuthum S.**.. Blood lead and cadmium levels of e-waste dismantling workers, buriram province, thailand. 3rd International Conference on Sustainable Development of Water and Environment, ICSDWE 2020; Springer; 2020. 381-390.