

## CURRICULUM VITAE

**NAME** Asst. Prof. Sophida Sukprasert, PhD (Biochemistry)

### ACADEMIC EXPERTISE

Clinical Biochemistry

Molecular Medicine

Vitamin D3 and Cancer

Thai Herbal Medicine

### RESEARCH INVESTIGATION

#### Ongoing research works

##### Principal investigator

1. Project: Immunomodulatory activity of vitamin D3 and *Lysiphyllum strychnifolium* (Craib) A. Schmitz extract: *in vivo* study to clinical outcome in colorectal cancer”
2. Project: Identification and characterization of specific biomarkers expressed in exosomes in breast cancer patients in Thailand
3. Project: Genetic polymorphism and protective role of vitamin D receptor in early stages of Thai colorectal cancer patients after receiving vitamin D3 supplementation
4. Project: Immunosensor for circulating tumor DNA (ctDNA) detection in blood: application for early diagnosis in breast cancer

### RESEARCH PUBLICATIONS

#### Conference Abstract

1. **S. Sukprasert**, N. Kuendee, A. Naladta, T. Yimsoo, W. Yingmema, A. Ariyachayut, W. Treesuppharat, R. Deenonpoe, K. Pansuksan, T. Kulsirirat, K. Sathirakul, J. Daduang. P51-8 Vitamin D3 and *Lysiphyllum strychnifolium* extract are immunomodulator in colorectal carcinoma-bearing models. *Annals of Oncology*, **2024**, Volume 35, S1382.  
<https://doi.org/10.1016/j.annonc.2024.07.429> (Oct 2024)
2. P. Srichomchey, **S. Sukprasert**, N. Pabalan, P. Tharabenjasin, J. Pattaraarchachai, N. Khulasittijinda, N. Voravud, C. Sahakitrungruang. PP02.181. Nutritional Status and Lifestyles

Assessment in Thai Colorectal Cancer Patients. *Canadian Journal of Dietetic Practice and Research* **2024**, Volume 85(3): 311. (Sep 2024)

## Research Article

1. Veevarin Charoenporn, Parunkul Tungsukruthai, Pitchapa Techarushatakit, Sirashat Hanvivattanukul, Kusuma Sriyakul, **Sophida Sukprasert**, Chuntida Kamalashiran, Sucharat Tungsukruthai, Thammanard Charernboon. Effects of an 8-week high-dose vitamin D supplementation on fatigue and neuropsychiatric manifestations in post-COVID syndrome: A randomized controlled trial. *Psychiatry and Clinical Neurosciences*, **2024**, 78(10), pp. 595–604. <https://doi.org/10.1111/pcn.13716>
2. Veevarin Charoenporn, Parunkul Tungsukruthai, Thammanard Charernboon, Kusuma Sriyakul, **Sophida Sukprasert**, Chuntida Kamalashiran. Fatigue and neuropsychiatric manifestations of post-acute sequelae of COVID-19 (PASC): examining the relationship with clinical and inflammatory markers, *Fatigue: Biomedicine, Health & Behavior* **2024**, 12(1), 14-31. DOI: 10.1080/21641846.2023.2286028
3. O. Sinsomboon, N. Kuendee, A. Naladta, K. Sriyakul, **S. Sukprasert**, Thai traditional massage modulates urinary MCP-1 and relevant inflammatory biomarkers in lower urinary tract symptom patients, *Journal of Traditional and Complementary Medicine* **2023**, 13, 521-529. <https://doi.org/10.1016/j.jtcme.2023.06.001>.
4. Kuendee, N.; Naladta, A.; Kulsirirat, T.; Yimsoo, T.; Yingmema, W.; Pansuksan, K.; Sathirakul, K.; **Sukprasert, S.** *Lysiphyllum strychnifolium* (Craib) A. Schmitz Extracts Moderate the Expression of Drug-Metabolizing Enzymes: In Vivo Study to Clinical Propose. *Pharmaceuticals* **2023**, 16, 237. <https://doi.org/10.3390/ph16020237>
5. Srichomchey, P., **Sukprasert, S.**, Khulasittijinda, N., Voravud, N., Sahakitrungruang, C., lumjiaktase, P. Vitamin D<sub>3</sub> Supplementation Promotes Regulatory T-Cells to Maintain Immune Homeostasis After Surgery for Early Stages of Colorectal Cancer. *In Vivo* **2023**, 37 (1) 286-293; DOI: 10.21873/invivo.13078
6. Woottisin, N.; **Sukprasert, S.**; Kulsirirat, T.; Tharavanij, T.; Sathirakul, K. Evaluation of the Intestinal Permeability of Rosmarinic Acid from *Thunbergia laurifolia* Leaf Water Extract in a Caco-2 Cell Model. *Molecules* **2022**, 27, 3884. <https://doi.org/10.3390/molecules27123884>
7. **Sukprasert, S.**, Deenonpoe, R., Yimsoo, T., Yingmema, W., Prasopdee, S., Krajang, A., Kornthong, N., Pattaraarchachai, J., Daduang, S. Antidote activity and protective effects of

- Lysiphyllum strychnifolium* (Craib) A. Schmitz extract against organophosphate pesticide in omethoate-treated rats, *Journal of Traditional and Complementary Medicine*. May 2021; 11(3), 189-196. <https://doi.org/10.1016/j.jtcme.2020.03.001>
8. Woottisin, N., Kongkiatpaiboon, S., **Sukprasert, S.**, Sathirakul, K. Development and Validation of Stability Indicating HPLC Method for Determination of Caffeic Acid, Vitexin and Rosmarinic Acid in *Thunbergia laurifolia* Leaf Extract. *Pharmacog J.* 2020;12(3): 611-618. DOI: 10.5530/pj.2020.12.91
  9. Chaturawit, P., **Sukprasert, S.**, Pattaraarchachai J., Voravud, N. Vitamin D status and biomarkers correlation in Thai cancer patients. *J Med Assoc Thai* 2020; 103(Suppl.3), 95-100.
  10. Pansuksan, K., **Sukprasert, S.**, Karaket, N. Phytochemical Compounds in *Arundo donax* L. Rhizome and Antimicrobial Activities. *Pharmacog J.* 2020;12(2), 287-292.
  11. **Sukprasert, S.**, Pansuksan, K., Sriyakul, K. *Lysiphyllum strychnifolium* (Craib) A. Schmitz extract, a novel neuraminidase inhibitor of avian influenza virus subtype H5N1. *Journal of Herbal Medicine* 2020; 100330. <https://doi.org/10.1016/j.hermed.2020.100330>
  12. Srisong, H., **Sukprasert, S.**, Klaynongsruang, S., Daduang, J., Daduang, S. Identification, expression and characterization of the recombinant Sol g 4.1 protein from the venom of the tropical fire ant *Solenopsis geminata*. *J Venom Anim Toxins incl Trop Dis* 2018; 24(23):1-13.
  13. Incamnoi, P., Patramanon, R., Klaynongsruang, S., Chaveerach, A., Bunyatratchata, W., Uawonggul, N., **Sukprasert, S.**, Namonsai, T., Noikotr, K., Rungsa, P., Daduang, J., Daduang, S. Sequence analysis and 3-dimensional molecular modeling of Heteroscorpine from the venom of *Heterometrus* spp. *Maejo Int. J. Sci. Technol.* 2018; 12(03): 187-198.
  14. Rungsa, P., Incamnoi, P., **Sukprasert, S.**, Uawonggul, N., Klaynongsruang, S., Daduang, J., Patramanon, R., Roytrakul, S., Daduang, S. Cloning, structural modeling and characterization of VesT2s, a wasp venom hyaluronidase (HAase) from *Vespa tropica*. *J Venom Anim Toxins incl Trop Dis* 2016; 22(28): 1-11.
  15. Rungsa, P., Incamnoi, P., **Sukprasert, S.**, Uawonggul, N., Klaynongsruang, S., Daduang, J., Patramanon, R., Roytrakul, S., Daduang, S. Comparative proteomic analysis of two wasps venom, *Vespa tropica* and *Vespa affinis*. *Toxicon* 2016; 119: 159-167.
  16. Meunchan, M., Uawonggul, N., Incamnoi, P., **Sukprasert, S.**, Rungsa, P., Somdee, T., Roytrakul, S., Thammasirirak, S., Daduang, S. Identification of Bioactive Molecules from Thai Centipede, *Scolopendra subspinipes dehaani*, Venom. *Chiang Mai J. Sci.* 2016; 43(1): 1055-1064.

17. Uawonggul, N., **Sukprasert, S.**, Incamnoi, P., Patramanon, R., Thammasirirak, S., Preecharram, S., Bunyatratchata, W., Kuaprasert, B., Daduang, J., Daduang, S. Bacterial Overexpression of Recombinant Heteroscorpine-1 (rHS-1), a Toxin from *Heterometrus laoticus* Scorpion Venom: Trends for Antibacterial Application and Antivenom Production. *Biochem Genet* 2014; 52(11-12):459-473. DOI 10.1007/s10528-014-9660-y.
18. **Sukprasert, S.**, Rungsa, P., Uawonggul, N., Incamnoi, P., Thammasirirak, S., Daduang, J., Daduang, S. Purification and structural characterisation of phospholipase A<sub>1</sub> (Vesapase, Ves a 1) from Thai banded tiger wasp (*Vespa affinis*) venom. *Toxicon* 2013; 61: 151-164.
19. Incamnoi, P., Patramanon, R., Thammasirirak, S., Chaveerach, A., Uawonggul, N., **Sukprasert, S.**, Rungsa, P., Daduang, J., Daduang, S. Heteromtoxin (HmTx), a novel heterodimeric phospholipase A<sub>2</sub> from *Heterometrus laoticus* scorpion venom. *Toxicon* 2013; 61: 62-71.
20. **Sukprasert, S.**, Uawonggul, N., Jamjanya, T., Thammasirirak, S., Daduang, J., Daduang, S. Characterization of the allergen Sol gem 2 from the fire ant venom, *Solenopsis geminata*. *J Venom Anim Toxins incl Trop Dis* 2012; 18: 325-334.