

Curriculum Vitae

Name: Wipada Siri-anusornsak
Position: Researcher, Senior Professional Level
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EDUCATION

2024 Ph.D. (Food Science), Kasetsart University, Thailand
2011 M.Sc (Biotechnology), Chulalongkorn University, Thailand
2008 B.Sc (Food Technology), Mae Fah Luang University, Thailand

TRAINING

2022 EU-China Safe Training Program, Scientist Mobility on Advance Mass Spectrometry, United Kingdom
2013 NICEM Training Program for Environmental Management, Republic of Korea

PROFESSIONAL EXPERIENCE

2012 - present Scientific Equipment and Research Division, Kasetsart University, Thailand

AREA OF EXPERTISE

- Bioremediation, mycotoxins in food and feed
- Water and waste water analysis, heavy metal analysis
- Spectrophotometry, chromatography

RESEARCH GRANT

As Head of Project:

- 2024 A novel adsorbent from edible freshwater algae waste from the active compounds extraction process and its application to agricultural products, Research and Development Institute, Kasetsart University Grant
- 2018 Extraction of collagen-like proteins from straw mushroom (*Volvariella volvacea*), Research and Development Institute, Kasetsart University Grant
- 2017 Phytochemical and antioxidant properties of colored rice grown in Northeastern Thailand, Research and Development Institute, Kasetsart University Grant
- 2014-2015 Phytoextraction of heavy metal from Dithiocarbamate fungicides contaminated soil, Research and Development Institute, Kasetsart University Grant
- 2012 Hydrolysis of rice straw for substrate in renewable energy production, Research and Development Institute Fund, Kasetsart University

As Co-Researcher

- 2024 The study on ochratoxin A in green coffee beans and processing for determination of risk management measures, National Bureau of Agricultural Commodity and Food Standards Grant
- 2024 Innovative of biopolymers from *Spirogyra* spp. and its bioactive compounds for food and environmental industry applications, Research and Development Institute, Kasetsart University Grant
- 2024 Prebiotic potential of freshwater algae (*Spirogyra* spp.) polysaccharides for synbiotic beads, Research and Development Institute, Kasetsart University Grant
- 2024 Innovative extraction of high active ingredients from *Andrographis paniculate*, *Centella asiatica*, *Curcuma longa* and removal of heavy metals by novel low cost bio-adsorbent materials, ARDA Grant

- 2021 Novel mycotoxin binder from young coconut husk to enhance the safety of agricultural products, Postharvest Technology Innovation Center (PHTIC), Chiang Mai University
- 2017 Relationship of phenolic compound, polyphenol, color and antioxidant of wood vinegar, Research and Development Institute, Kasetsart University Grant
- 2017 Cassava breeding for low cyanogen content and high productivity used as food industrial supply, National Science and Technology Development Agency (NSTDA)
- 2015 Production and storage factors affecting amount and chemical composition of wood vinegar, Research and Development Institute, Kasetsart University Grant
- 2014-2015 Potential for bioremediation of persistence residual compounds from agriculture and industry in environment, Research and Development Institute, Kasetsart University Grant

PUBLICATIONS

- Siri-anusornsak, W.**, Kolawole, O., Soiklom, S., Petchpoung, K., Keawkim, K., Chuaysrinule, C. and Maneeboon, T. 2024. Innovative use of *Spirogyra* sp. biomass for the sustainable adsorption of aflatoxin B₁ and ochratoxin A in aqueous solutions. *Molecules*, 29, 5038. <https://doi.org/10.3390/molecules29215038>
- Soiklom, S., **Siri-anusornsak, W.** and Petchpoung, K. 2024. Effects of drying conditions on physical properties, bioactive compounds and antioxidant activity of *Andrographis paniculata* leaves. *Food Research*, 8(5), 334-340. [https://doi.org/10.26656/fr.2017.8\(5\).639](https://doi.org/10.26656/fr.2017.8(5).639)
- Kolawole, O., **Siri-anusornsak, W.**, Petchkongkaew, A. and Elliott, C. 2024. A systematic review of global occurrence of emerging mycotoxins in crops and animal feeds, and their toxicity in livestock. *Emerging Contaminants*, 10, 100305. <https://doi.org/10.1016/j.emcon.2024.100305>

- Petchpoung, K., Soiklom, S. and **Siri-anusornsak, W.** 2024. Estimation of andrographolide and antioxidant activities in *Andeographis peniculata* commercial products by color parameters. Trends in Sciences, 21(3): 7393. <https://doi.org/10.48048/tis.2024.7393>.
- Soiklom, S., **Siri-anusornsak, W.**, Petchpoung, K. and Kansandee, W. 2024. Development of anthocyanin-rich gel beads from colored rice for encapsulation and in vitro gastrointestinal digestion. Molecules, 29, 270. <https://doi.org/10.3390/molecules29010270>.
- Siri-Anusornsak, W.**, Meneely, J., Greer, B., Vangnai, K., Mahakarnchanakul, W., Elliott, C., Petchkongkaew, A. and Kolawole, O. 2023. In vitro assessment of commercial multi-mycotoxin binders to reduce the bioavailability of emerging mycotoxins in livestock. Emerging Contaminants, 9 (4), 100256. <https://doi.org/10.1016/j.emcon.2023.100256>.
- Kolawole, O., **Siri-Anusornsak, W.**, Petchkongkaw, A., Meneely, J. and Elliott, C. 2022. The Efficacy of Additives for the Mitigation of Aflatoxins in Animal Feed: A Systematic Review and Network Meta-Analysis. Toxins 2022, 14, 707. <https://doi.org/10.3390/toxins14100707>.
- Siri-anusornsak, W.**, Kolawole, O., Mahakarnchanakul, W., Greer, B., Petchkongkaew, A., Meneely, J., Elliott, C. and Vangnai, K. 2022. The Occurrence and Co-occurrence of Regulated, Emerging and Masked Mycotoxins in Rice Bran and Maize from South-east Asia. Toxins 14, 567. <https://doi.org/10.3390/toxins14080567>.
- Soiklom, S., Petchpoung, K., **Siri-anusornsak, W.** 2021. Comparison of Sample Pretreatment and Analytical Method for Nitrate Determination in Vegetables. Trends in Sciences 18(19): 19. <https://doi.org/10.48048/tis.2021.19>.
- Krittaya, P., Siriwan S., **Wipada S.**, Nathawat K., Anucha T. and Thanapoom M. 2020. Predicting antioxidant activity of wood vinegar using color and spectrophotometric parameters. MethodsX 7: 1-7. <http://dx.doi.org/10.1016/j.mex.2020.100783>.

CONFERENCE PRESENTATIONS

- Krittaya P., Siriwan S., **Wipada S.**, Thanapoom M., Adcharapun, C. and Phummarin, W. 2023. Color characteristic, active compounds and antioxidant activity of java tea (Abstract), p.216. *In* Plant Science and Agriculture (Online), 11-13 September 2023, Valencia, Spain.
- Wipada S.**, Krittaya, P. and Siriwan S. 2019. Extraction and stability of anthocyanin from Mali Nil rice, p. 53-59. *In* The 2nd Suan Sunandha National and International Academic Conference

on Science and Technology “Science, Technology and Innovation for Sustainable Development (SsSci 2019), 8 November 2019, The Royal River Hotel, Bangkok, Thailand.

Wipada S., Krittaya P., Siriwan S. and Chanram R. 2019. Relationship between color parameters, total phenolic content and protein content of local Thai rice varieties, p. 11-17. *In* The 57th of Kasetsart University Annual Conference. 29 January – 1 February, 2019. Kasetsart University, Bangkok, Thailand.

Siriwan S., Krittaya P., **Wipada S.** and Chanram R. 2019. Quantitative analysis of indole-3-acetic acid in bacterial culture media extract using HPLC, p. 27-34. *In* The 57th of Kasetsart University Annual Conference. 29 January – 1 February, 2019. Kasetsart University, Bangkok, Thailand.