

Curriculum Vitae

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Position: Researcher Professional Level
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EDUCATION

2020 M.Sc. (Food Science) Kasetsart University
2009 B.Sc. (Fisheries) Kasetsart University

TRAINING

2014 Regional Training on: Prevention and Control of Mycotoxins in Food and Feedstuff, Vietnam Nation University of Agriculture, Hanoi Vietnam, 25-30 September 2014
2016 Training Course on: Food Metabolism, Faculty of Agro-Industry, Kasetsart University, 12-16 September 2016

PROFESSIONAL EXPERIENCE

2021 – present Scientific Equipment and Research Division, Kasetsart University

AREA OF EXPERTISE

- Mycotoxin: Mycotoxin extraction and Analysis
- Mycotoxin-producing fungi in food
- Food safety

As Head of Project

2025 Modeling Fungal Growth Interactions and Mycotoxin Production Dynamics in Co-Cultivated Aflatoxin and Citrinin-Producing Strains on Stored Rice Grains
2023 The improvement of utilization from pigmented rice for health food: Risk assessment and stable bioactive compounds production

As Co-Researcher

2025 Development of deep eutectic solvent (DES) sample preparation as a green extraction technique for monitoring mycotoxin contamination in rice

2024	A novel adsorbent from <i>Spirogyra</i> spp. waste from the active compounds' extraction process and its application to agricultural products
2022	Development of QuEChERS sample preparation for the determination of mycotoxin in medicinal herbs by HPLC and health risk assessment of mycotoxin via consumption of medicinal herbs

PUBLICATION

1. San Phyoo, S. T., T. Maneeboon, W. Mahakarnchanakul and **C. Chuaysrinule**. 2024. Prevalence and risk assessment of aflatoxins and ochratoxin A in dried chili and pepper products in Myanmar. *Journal of Agriculture and Food Research*. 18:101541,
2. Maneeboon, T., C. Roopkham, W. Mahakarnchanakul and **C. Chuaysrinule***. 2024. Exploration of *Pseudomonas knackmussii* AD02 for the biological mitigation of post-harvest aflatoxin contamination: Characterization and degradation mechanism. *Journal of Stored Products Research*, Volume 109:102470,
3. Siri-anusornsak. W., O. Kolawole, S. Soiklom, K. Petchpoung, K. Keawkim, **C. Chuaysrinule** and T. Maneeboon. 2024. Innovative Use of *Spirogyra* sp. Biomass for the Sustainable Adsorption of Aflatoxin B1 and Ochratoxin A in Aqueous Solutions. *Molecules*. 29(21):5038.
4. Maneeboon, T., W. Mahakarnchanakul and **Chananya Chuaysrinule***. 2024. Evaluating dietary exposure and risk characterization of aflatoxin B1, citrinin, and ochratoxin A co-occurrence in pigmented rice consumed in Thailand. *Journal of Food Composition and Analysis* 136: 106755.
5. **Chuaysrinule, C.**, C. Roopkham, W. Mahakarnchanakul and T. Maneeboon. 2024. Assessment of mycobiota in Thai pigmented rice: Insights into ochratoxin A and citrinin production by *Aspergillus* and *Penicillium* species. *Journal of Stored Products Research* 107: 102323.
6. Maneeboon, T., S. Sangchote, R. Hongprayoon, **C. Chuaysrinule** and W. Mahakarnchanakul. 2024. Growth kinetics and patulin production by *Penicillium setosum* in pineapple juice under different temperatures and initial pH values. *Journal of Agriculture and Food Research* 15: 101025.

7. Maneeboon, T., S. Sangchote, R. Hongprayoon, C. **Chuaysrinule** and W. Mahakarnchanakul. 2023. Modeling the Thermal Inactivation of Ascospores from Heat-Resistant Molds in Pineapple Juice and Evaluating Disinfection Efficiency of Sodium Hypochlorite and Chlorine Dioxide. *Beverages*. 9(4): 96.
8. Maneeboon, T., S. Sangchote, R. Hongprayoon, C. **Chuaysrinule** and W. Mahakarnchanakul. 2023. Occurrence of Heat-Resistant Mold Ascospores in Pineapple and Sugarcane Field Soils in Thailand. *International Journal of Microbiology*. 8347560.
9. Maneeboon, T., C. **Chuaysrinule** and W. Mahakarnchanakul. 2023. Optimization and validation of dispersive liquid–liquid microextraction for simultaneous determination of aflatoxins B1, B2, G1, and G2 in senna leaves and pods using HPLC-FLD with pre-column derivatization. *Toxins*. 15: 277.
10. **Chuaysrinule, C.**, T. Maneeboon and W. Mahakarnchanakul. 2023. Mutual effects on mycotoxin production during co-culture of ochratoxigenic and aflatoxigenic *Aspergillus* strains. *Mycotoxin Research*. 39: 57–66.
11. Joshi, P.; C. **Chuaysrinule**, W. Mahakarnchanakul and T. Maneeboon. 2022. Multi-mycotoxin contamination, mold incidence and risk assessment of aflatoxin in maize kernels originating from Nepal. *Microbiology Research*. 13: 258-277.
12. Dwipa, R.P.U., T. Maneeboon, C. **Chuaysrinule**, and W. Mahakarnchanakul. 2022. Interactive inhibition of aflatoxigenic *Aspergillus flavus* and ochratoxigenic *Aspergillus carbonarius* by *Aspergillus oryzae* under fluctuating temperatures. *Microbiology Research*. 13 (1): 114-127.
13. **Chuaysrinule, C.**, T. Maneeboon, C. Roopkham, W. Mahakarnchanakul. 2020. Occurrence of aflatoxin- and ochratoxin A-producing *Aspergillus* species in Thai dried chilli. *Journal of Agriculture and Food Research*. 2: 100054
14. **Chuaysrinule, C.**, W. Mahakarnchanakul and T. Maneeboon*. 2020. Comparative study on the effect of temperature and water activity on *Aspergillus flavus* and *Aspergillus carbonarius* isolates growth and mycotoxin production on a chili powder medium. *Cogent Food and Agriculture*. 6: 1782097

15. Nampeung, A., T. Maneeboon, C. Roopkham, C. **Chuaysrinule** and W. Mahakarnchanakul. 2014. Fumonisin and T-2 toxin production of *Fusarium* spp. isolated from complete feed and individual agricultural commodities used in shrimp farming. *Mycotoxin Research* 30 (1): 9-16.

CONFERENCE PRESENTATIONS

1. Maneeboon, T., C. **Chuaysrinule**, P. Iamtaweejaroen, and W. Mahakarnchanakul. 2024. Variation of aflatoxin levels in different rice varieties and health risk assessment of aflatoxin B1. 3rd International Conference on Rice for the Future (ICRF 2024), 14-15 November 2024, Nonthaburi, Thailand.
2. **Chuaysrinule**, C., W. Mahakarnchanakul and T. Maneeboon. 2024. Growth and Citrinin Production by *Penicillium citrinum* in glutinous purple rice as a function of temperature and water activity. p 173. 1st International Conference on Agriculture, Food, Forestry and Agribusiness 5-6 September 2024, Labuan Bajo, East Nusa Tenggara, Indonesia.
3. **Chuaysrinule**, C., C. Roopkham, W. Mahakarnchanakul and T. Maneeboon. 2024. Mathematical modelling of growth and ochratoxin A production by *Aspergillus flocculosus* in Hom Nil (*Oryza sativa*) rice. p 161. The 6th International Conference of Mycotoxicology and Food Security, 2024 (ICM 2024) "Climate change & mycotoxins: The world experience" 4-5 July 2024, Prachuap Khiri Khan, Thailand
4. Phyto, S. T. S., W. Mahakarnchanakul, T. Maneeboon and C. **Chuaysrinule***. 2024. Evaluation of total anthocyanin, mycoflora, and aflatoxin contamination in glutinous purple rice in Thailand. p 174. 1st International Conference on Agriculture, Food, Forestry and Agribusiness 5-6 September 2024, Labuan Bajo, East Nusa Tenggara, Indonesia.
5. Maneeboon, T., C. **Chuaysrinule** and W. Mahakarnchanakul. 2024. Comparative analysis of *Paecilomyces niveus* growth and patulin production: Influence of culture media and environmental factors. p 175. 1st International Conference on Agriculture, Food, Forestry and Agribusiness 5-6 September 2024, Labuan Bajo, East Nusa Tenggara, Indonesia.

6. Maneeboon, T., **C. Chuaysrinule** and W. Mahakarnchanakul. 2024. Preliminary determination of mycotoxigenic fungi and mycotoxins in raw and roasted cashew nuts for local consumption in Thailand. p 162. The 6th International Conference of Mycotoxicology and Food Security, 2024 (ICM 2024) “Climate change & mycotoxins: The world experience” 4-5 July 2024, Prachuap Khiri Khan, Thailand.
7. San Phyoo, T. S., W. Mahakarnchanakul, T. Maneeboon and **C. Chuaysrinule**, 2024. Assessment of aflatoxin risk and consumer safety in dried chili products in Myanmar. p 168. The 6th International Conference of Mycotoxicology and Food Security, 2024 (ICM 2024) “Climate change & mycotoxins: The world experience” 4-5 July 2024, Prachuap Khiri Khan, Thailand.
8. **Chuaysrinule, C.**, C. Roopkham, W. Mahakarnchanakul and T. Maneeboon. 2023. Fungal contamination of pigmented rice grains: identification and presence of potentially citrinin-producing species. p 170. In the 5th International Conference of Mycotoxicology and Food Security, 2023 (ICM 2023) “Global mycotoxins challenges in 2023” 6-7 September 2023, Bangkok, Thailand.
9. Maneeboon, T., **C. Chuaysrinule** and W. Mahakarnchanakul. 2023. Mycological analysis and incidence of aflatoxin and ochratoxin A-producing fungi in selected medicinal herbs. p 169. In the 5th International Conference of Mycotoxicology and Food Security, 2023 (ICM 2023) “Global mycotoxins challenges in 2023” 6-7 September 2023, Bangkok, Thailand
10. **Chuaysrinule, C.**, C. Roopkham, K. Petchpoung and T. Maneeboon. 2022. Aflatoxin B1 degradation by a newly isolated endophytic fungus *Aspergillus aculeatus*, International Symposium of Mycotoxicology 2022 & International Conference of Mycotoxicology and Food Security 2022 (ISMYCO 2022 & ICM 2022), 6 - 9 September 2022, Thailand
11. **Chuaysrinule, C.**, W. Mahakarnchanakul and T. Maneeboon. 2022. Optimization of a modified QuEChERS method for simultaneous analysis of AFB1, AFB2, AFG1, AFG2 and OTA in senna leaf powder by HPLC-FLD, International Symposium of Mycotoxicology 2022 & International Conference of Mycotoxicology and Food Security 2022 (ISMYCO 2022 & ICM 2022), 6 - 9 September 2022, Thailand

12. **Chuaysrinule**, C., S. Soiklom, K. Petchpoung, W. Mahakarnchanakul, K. Ruenreungdee and T. Maneeboon. 2014. Detection of aflatoxins producing *Aspergillus* spp. from fish meal, soybean meal and shrimp feed in Thailand. p 901. *In* The 10th International Mycological Congress. 3-8 August 2014. Bangkok, Thailand.
13. **Chuaysrinule**, C., W. Mahakarnchanakul and T. Maneeboon. 2017. Occurrence of Aflatoxin and Ochratoxin A Producing Fungi in Chili of Thailand. *In* The the 5th IUMS Outreach Programme: Advances in Food Safety and Mycotoxins, 19-20 January, 2017, Yogyakarta, Indonesia
14. **Chuaysrinule**, C., W. Mahakarnchanakul and T. Maneeboon. 2020. Influence of temperature and water activity on growth and production of aflatoxin B1 by *Aspergillus flavus* and ochratoxin A by *A. carbonarius* isolated from dried chili, p. 94. *In* The 6th International Union of Microbiological Societies (IUMS) Outreach Programme on Food Safety and Microbial Toxins, 20-21 February 2020. Universitas Gadjah Mada, Yogyakarta, Indonesia.
15. Mahakarnchanakul, M., R. P. U. Dwipa, **C. Chuaysrinule** and T. Maneeboon. 2020. Mycotoxigenic fungi and mycotoxins in selected cereals in Thailand and their exposure assessment, p. 39. *In* The 6th International Union of Microbiological Societies (IUMS) Outreach Program on Food Safety and Microbial Toxins, 20-21 February 2020. Universitas Gadjah Mada, Yogyakarta, Indonesia
16. Dwipa, R. P. U., T. Maneeboon, **C. Chuaysrinule** and W. Mahakarnchanakul. 2020. Competition of toxigenic isolates of *Aspergillus flavus* and *Aspergillus carbonarius* under shifting temperature, p. 90. *In* The 6th International Union of Microbiological Societies (IUMS) Outreach Program on Food Safety and Microbial Toxins, 20-21 February 2020. Universitas Gadjah Mada, Yogyakarta, Indonesia.
17. Maneeboon, T., **C. Chuaysrinule**, R. P. U Dwipa and W. Mahakarnchanakul. 2020. Mycobiota and Mycotoxins contamination in sesame seeds, lotus seeds and Job's tears seeds from Thailand, p 119. *In* WMFmeetsASIA – the 12th Conference of the World Mycotoxin Forum, 13-15 January 2020. Bangkok, Thailand.
18. Pukkasorn, P., W. Ratphitagsanti, V. Haruthaithanasan, T. Maneeboon and **C. Chuaysrinule**. 2016. Consumer Survey on Aflatoxin Contaminated Peanut and Ultra Superheated Steam Technology Usage. *In* The 18th Food Innovation Asia Conference 2016 (FIAC 2016)

19. Kaokaeng, S., W. Mahakarnchanakul, T. Maneeboon and **C. Chuaysrinule**. 2014. The Optimized Condition of Ochratoxin A Production for Reference Material Production, p 87. *In* The the 2nd AFSA Conference on Food Safety and Security. 15 – 18 August 2014. Bien Hoa City, Vietnam.
20. Maneeboon, T., **C. Chuaysrinule**, N. Anukul, P. Iamtaweejaloen and W. Mahakarnchanakul. 2014. Isolation of *Aspergillus* Section *Flavi* from Rice in Thailand and their Aflatoxins Producing Ability, p 900. *In* The 10th International Mycological Congress. 3-8 August 2014. Bangkok, Thailand.
21. Maneeboon, T., **C. Chuaysrinule**, N. Anukul, C. Roopkham and W. Mahakarnchanakul. 2013. A preliminary investigation on the presence of zearalenone producing *Fusarium* from corn in Thailand. p72. *In* The International Conference on Mycological Aspects for Food and Feed Safety, 27-28 June 2013. Yogyakarta, Indonesia.
22. Kooprasertying, P., T. Maneeboon, **C. Chuaysrinule**, K. Insawake, R. Hongprayoon and W. Mahakarnchanakul. 2013. In-house Immuno Affinity Column Development for Aflatoxin B1 Detection. p 64. *In* The International Conference on Mycological Aspects for Food and Feed Safety, 27-28 June 2013. Yogyakarta, Indonesia.