

Curriculum Vitae

Name: Chanram Roopkham
Position: Researcher, Senior Professional Level
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EDUCATION

2011 M.S. (Agricultural Biotechnology) Kasetsart University, Thailand
1995 B.Sc (Agriculture - Education) Kasetsart University, Thailand

TRAINING

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PROFESSIONAL EXPERIENCE

1998 - present Scientific Equipment and Research Division, Kasetsart University,
Thailand

AREA OF EXPERTISE

- Biotechnology in plant
- Gene Cloning and DNA Analysis
- DNA Markers

RESEARCH GRANT

As Head of Project:

- 2023 Development of the novel mutant from *Cryptocoryne albida* using gamma irradiation and protoplast techniques.
- 2017 Searching of Taxol producing gene and diversity of Endophytic fungi from Mangrove plant
- 2017 Evaluation of plant growth promoting potential of Organochlorine Pesticide resistant endophytic and soil fungi
- 2015 Increasing efficiency for indole-3-acetic acid (IAA) production by *Bacillus* spp. isolated from alkaline soil.
- 2014 Potential assessment of haloalkaliphilic bacteria isolated from alkaline soil in Kanchanaburi research station in plant growth promoting bacteria.

2013 Identification of Keantawan (*Helianthus tuberosus* L.) based on nucleotide sequences of Chloroplast and Nuclear DNA by PCR – RFLP.

RESEARCH GRANT

As Co-Researcher

- 2023 The improvement of utilization from pigmented rice for health food: Risk assessment and stable bioactive compounds
- 2023 The improvement of utilization from pigmented rice for health food: Risk assessment and stable bioactive compounds
- 2023 Enrichment with bioactive compound assessment of essential oils and restoration of *Platostoma hemratanum* the endangered rare plant using biotechnology
- 2022 Structure and Bioactive Compounds of *Ulva rigida*
- 2021 Biotechnology innovation and DNA markers to restore and assessment of biological activity of Som phulangka the critically endangered endemic plants in the Naka cave
- 2021 Development of Laboratories Management System to Laboratory Safety based on TIS 2677-2558 for Support Agriculture and Food Standard
- 2020 Technology transfer of Solanaceae crops in organic farming with biological stimulants from bacteria.
- 2020 Commercially Feasible Micropropagation of Potentiality ‘*Phanera*’ Endemic Species to Commercial Ornamental Plants
- 2019 Smart Greenhouse for Increase Efficiency of Acacia Hybrid Seedling Productions
- 2018-2019 Isolation of aflatoxin-degrading microorganism for biological control of aflatoxin contamination
- 2018 Potential Development of salt-tolerant bacteria producing indole-3-acetic acid and fungal controlling substances for promoting growth and quality of tomato after harvest

- 2018 Distribution of aflatoxin and ochratoxin A producing fungi in dried chili and factors influence on mycotoxins production
- 2018 Micropropagation and in vitro conservation of Siamese platinum (*Smithatris supraneanae* W.J. Kress & K. Larsen).
- 2018 Risk assessment of Mycotoxins and Distribution of Mycotoxins Producing Fungi in Thai Glutinous Paddy rice and Grain rice
- 2018 Assessment of mycotoxins and mycotoxins-producing fungi in major ingredients for Thai dishes: glutinous rice and dried chili
- 2018 Research Development for Sustainable Virus Free Orchid Production
- 2018 Extraction of Collagen-Like Proteins from Straw Mushroom (*Volvariella volvacea*)
- 2017 Fermentation of kojic acid from cassava by *Aspergillus* spp. for application in the cosmetic industry
- 2017 Biodegradation of DDT in Soil by *Fusarium solani* P114
- 2016 Research for Quality and Agricultural Usage Development of Wood Vinegar
- 2014- Efficiency of Wood Vinegar Produced from Different Raw Materials and Collected
2016 under Various Temperatures Against Plant Pest.
- 2013- Potential for bioremediation of persistence residual compounds from agriculture and
2015 industry in environment.
- 2013- Biodegradation of Some Organochlorine Pesticide Contaminated in Environment by
2015 Soil Fungi: Isolation and Optimization.
- 2013- Confirmation of the success and persistence of GFP gene in the genome of
2014 fluorescent aquatic plant *Hygrophila difformis*.

PUBLICATIONS

- Sakulsathaporn, A., Choradet, I. and Roopkham, C. 2023. Genetic Diversity of the Endemic Species *Phanera sirindhorniae* in the Mekong Basin of Thailand Based on ISSR Markers. *Trends in Sciences*, 20(12), pp.7053-7053.
- Paopun, Y., Thanomchat, P., Roopkham, C., Umroong, P., Pan-utai, W., Satmalee, P., Kosawatpat, P., Thongdang, B. and Tamtin, M., 2023. Structural Development of Marine Green Alga (*Ulva rigida* C. Agardh, 1823) during Cultivation. *Trends in Sciences*, 20(8), pp.6747-6747.
- Chuaysrinule, C., Maneeboon, T., Roopkham, C. and Mahakarnchanakul, W. 2020. Occurrence of aflatoxin-and ochratoxin A-producing *Aspergillus* species in Thai dried chilli. *Journal of Agriculture and Food Research*, 2, 100054.
- Kunagorn, N., Roopkham, C., Aumroong, P. and Anukul, N. 2017. Meristem tip culture of *Dendrobium* orchid for boosting efficiency of hygienic large scale micropropagation. *Acta Hort. (ISHS)* 1155:419-424
- 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
- Roopkham, C., Silayoi, B., Trakulnaleamsai, S. and Apisitwanich, S. 2011. DNA marker for A1 and A2 *Musa* genome identification. *Genomics and Genetics*, 4(1), pp.43-51.

CONFERENCE PRESENTATIONS

1. Thanapoom Maneeboon, Chananya Chuaysrinule, Nampeung Anukul, Chanram Roopkham and Warapa Mahakarnchanakul. 2013. A preliminary investigation on the presence of zearalenone producing *Fusarium* from corn in Thailand. p72. In Proceeding of International Conference on Mycological Aspects for Food and Feed Safety, 27-28 June 2013. Yogyakarta, Indonesia
2. Krittaya Petchpoung and Montri Chulavatnatol.