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EDUCATION

Years	Degrees/ Certificates	Institutes
2010-2014	Ph.D. (Horticulture)	Khon Kaen University
2008-2010	M.Sc. (Horticulture)	Khon Kaen University
2002-2006	B.Sc. (Agriculture)	Khon Kaen University

WORK EXPERIENCES

Years	Work Positions
2015- present	Lecturer

RESEARCH AREA

Plant Breeding, Plant Production Technology

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Awards/Scholarships:

Years	Scholarship/ Award Names	Awarding Institutes
2018	Science and Technology Research Grants National Science and Technology	Thailand Toray Science Foundation
2010-2014	the Royal Golden Jubilee (RGJ) Ph.D. Programme	The Thailand Research Fund

Research Grants:

Topics	Research Grants	Years
Varietal Improvement of Super Sweet Corn for Increasing Quality and Carotenoid Content	Thammasat University	2021-2022
Relationship analysis between physical traits, chemical compositions and seed qualities during developmental stages of the synergistic sweet corn (<i>Zea mays</i> L. <i>saccharata</i>) inbred line seeds using time series regression method	Faculty of Science and Technology, Thammasat University	2020
Varietal Improvement of Super Sweet Corn (<i>Zea mays</i> L. var. <i>saccharata</i> Sturt) for Increasing Quality and Functional Food	Thammasat University	2019

Breeding for increased eating quality, and carotenoids and tocopherol levels in super sweet corn (<i>Zea mays</i> L. var. <i>saccharata</i> Sturt.)	Thammasat University	2018
Morphological and chemical analysis of nutraceutical lipid substances biofortification in some selected landrace rice varieties in Thailand	The Thailand Research Fund	2016-2017
Microgreen production efficient in selected Thai vegetables for increasing yield, antioxidants and antioxidant capacity	Thammasat University	2016
Effects of biotic elicitors on vitamin, carotenoids and sulphoraphane concentrations in selected Thai traditional <i>Brassicaceae</i> microgreens	Thammasat University	2016

Publication:

International publication:

Harakotr, B., Suriharn, B., Tangwongchai, R., Scott, M.P., and Lertrat, K. 2014. Anthocyanins and antioxidant activity in coloured waxy corn at different maturation stages. *Journal of Functional Foods*. 9:109-118.

Harakotr, B., Suriharn, B., Tangwongchai, R., Scott, M.P., and Lertrat, K. 2014. Anthocyanin, phenolics and antioxidant activity changes in purple waxy corn as affected by traditional cooking. *Food Chemistry*. 164:510-517.

Harakotr, B., Suriharn, B., Scott, M.P., and Lertrat, K. 2015. Genotypic variability in anthocyanins, total phenolics, and antioxidant activity

among diverse waxy corn germplasm. *Euphytica*. 203:237-248.

Simla, S., Boontang, S. and **Harakotr, B.** 2016. Anthocyanin content, total phenolic content, and antiradical capacity in different ear components of purple waxy corn at two maturation stages. *Australian Journal of Crop Science*. 10:675-682.

Harakotr, B., Suriharn, B., Scott, M.P., and Lertrat, K. 2016. Genetic analysis of anthocyanin content in purple waxy corn (*Zea mays* L. var. *ceratina*) kernel and cob. *SABRAO Journal of Breeding and Genetics*. 48:230-239.

Khamphan, P., Lomthaisong, K., **Harakotr, B.**, Ketthaisong, D., Scott, M.P., Lertrat, K. and Suriharn, B. 2018. Genotypic variation in anthocyanins, phenolic compounds, and antioxidant activity in cob and husk of purple field corn. *Agronomy*. 8(11): 271. <https://doi.org/10.3390/agronomy8110271>

Harakotr, B., Srijunteuk, S., Rithichai, P. and Tabunhan, S. 2019. Effects of Light-emitting diode light irradiance levels on yield, antioxidants, and antioxidant capacities of indigenous vegetable microgreens. *Science & Technology Asia*. 24(3): 59-66.

Harakotr, B., Promphoh, K., Boonyuen, S., Suriharn, B. and Lertrat, K. 2019. Variability in nutraceutical lipid content of selected rice (*Oryza sativa* L. ssp. *indica*) germplasms. *Agronomy*. 9(823): 823. <https://doi.org/10.3390/agronomy9120823>

Khamphan, P., Lomthaisong, K., **Harakotr, B.**, Scott, M.P., Lertrat, K. and Suriharn, B. 2020. Effects of mass selection on husk and cob color in five purple field corn populations segregating for purple husks. *Agriculture*. 10(8): 311. <https://doi.org/10.3390/agriculture10080311>

Benchasri, S., Simla, S., and **Harakotr, B.** 2020. The effect of genotypic variability on the yield and yield components of okra (*Abelmoschus esculentus* L. Moench) in Thailand. *Asian Journal of Agriculture and Biology*. 8(4): 480-490.

Khamphan, P., Lomthaisong, K., **Harakotr, B.**, Scott, M.P., Lertrat, K.

and Suriharn, B. 2020. Combining ability and heterosis for agronomic traits, husk and cob pigment concentration of maize. Agriculture. 10(11): 510. <https://doi.org/10.3390/agriculture10110510>

Harakotr, B., Prompoh, K., Suriharn, K. and Lertrat, K. 2021. Genotype by environment interaction effects on nutraceutical lipid compounds of pigmented rice (*Oryza sativa* L. ssp. *indica*). International Journal of Agronomy. 2021: 1-12. <https://doi.org/10.1155/2021/8880487>

Harakotr, B., Sutthiluk, W., and Rithichai, P. 2022. Changes on sugar and starch contents during seed development of synergistic sweet corn and implication on seed quality. International Journal of Agronomy. 2022: 1-11. <https://doi.org/10.1155/2022/6550474>

Wasuwatthanakool, W., **Harakotr, B.**, Jirakiattikul, Y., Lomthaisong, K., Suriharn, K. 2022. Combining ability and testcross performance for carotenoid content of S₂ super sweet corn lines derived from temperate germplasm. Agriculture. 12, 1561. <https://doi.org/10.3390/agriculture12101561>

Selected National publication:

Harakotr, B., Suriharn, B., Tangwongchai, T. and Lertrat, K. 2014. Effects of harvesting times and cooking methods on anthocyanin content and antioxidant activity in purple waxy corn hybrids. Khon Kaen Agriculture Journal. 42(3): 337-346.

Harakotr, B., Suriharn, B., Tangwongchai, T. and Lertrat, K. 2015. Profile of phenolic compounds and antioxidant capacity in waxy corn at different maturation stages. Khon Kaen Agriculture Journal. 43(Suppl 1): 311-316

Sriboonthai, C, Ritthichai, P., Jirakiattikul, B. and **Harakotr, B.** 2015. Development and Maturation of Roselle Seed. Thai Science and Technology Journal. 24(2): 333-341

Phuangchik, T., Promproh, K. and **Harakotr, B.** 2015. Effect of Chemical Fertilizer on Growth of Bamboo (*Dendrocalamus sericeus*) Seedling. Thai Journal of Science and Technology. 5: 246-255

Phuangchik, T., **Harakotr, B.** and Hiranyasthiti, K. 2015. Study on Growth of Six Bamboo Varieties. Thai Journal of Science and Technology. 5: 256-264

Harakotr, B., Suriharn, B., and Lertrat, K. 2015. Screening of waxy corn germplasm for enhanced anthocyanin concentration and antioxidant capacity. Khon Kaen Agriculture Journal. 44(Suppl 1): 186-192.

Harakotr, B. and Thong-oon, A. 2015. Effects of water management and plant spacing on the growth and yield of purple riceberry rice with the system of rice intensification (SRI). Thai Science and Technology Journal. 24(Suppl): 986-997.

Harakotr, B. and Thong-oon, A. 2016. Effect of plant spacing on grain yield and yield components of three rice varieties grown under the system of rice intensification. Khon Kaen Agriculture Journal. 45(Suppl 1): 206-212.

Jirakiattikul, Y., Rithichai, P., **Harakotr, B.**, Nilvorn, B. and Autaijamsripon, J. 2017. Effect of culture medium on growth of *Platyserium ridleyi* spores under *in vitro* culture. Thai Science and Technology Journal. 26: 641-648

Harakotr, B., Waiphimai, W., Jirakiattikul, Y., Rithichai, P. 2018. Contents of Carotenoids, Sulforaphane, Antioxidants and Antioxidant Capacity of an Indigenous Brassicaceae Vegetable Microgreens. Songklanakarin Journal of Plant Science. 5(3): 108-117.

Harakotr, B., Jirakiattikul, Y., Rithichai, P. 2019. Effect of biotic elicitors on content of antioxidants and their capacities in an indigenous Brassicaceae vegetable microgreens. Thai Science and Technology Journal. 27(1): 109-123.

Harakotr, B., Phuangchik, T. and Tabunhan, S. 2019. Antioxidant Contents and Microbial Quality of Water from Nual Rachinee (*Dendrocalamus sericeus* Munro) and Kim Chung (*Bambusa beecheyana*) bamboo. Thai Journal of Science and Technology. 8(4): 355-366.

- Harakotr, B.**, Ponjan, P. and Phuangchik, T. 2019. Effect of IBA on sucker production of Kluai Hom-Thong [Musa (AAA group)] propagation through rhizome-cutting method. Thai Journal of Science and Technology. 8(4): 367-376.
- Harakotr, B.**, Muensuk, J., Jirakiattikul, Y. and Suriharn, B. 2019. Pollen viability and storage in temperate super sweet corn germplasm. Khon Kaen Agriculture Journal. 47(4):705-714.
- Harakotr, B.**, Rithichai, P. and Tabunhan, S. 2020. Effects of ZnSO₄ on Growth and Antioxidants in Rat-tailed Radish, Dill and Hairy Basil Microgreens. Thai Science and Technology Journal. 28(1): 86-98.
- Harakotr, B.**, Charoensup, L., Rithichai, P. and Tabunhan, S. 2020. Effects of storage temperature and time on quality, antioxidants and their capacities of Thai rat-tailed radish (*Raphanus sativus* var. *caudatus* Alef) microgreen. Khon Kaen Agriculture Journal. 48(1): 201-210.
- Promproh, K. **Harakotr, B.** and Suriharn, B. 2020. 2563. Evaluation of Rice Grain Morphological Characteristics and Lipid Compounds Using Multivariate Classification Techniques. Thai Science and Technology Journal. 28(7): 1253-1266.
- Sutthiluk, W., Suwor, P., Suriharn, B. and **Harakotr, B.** 2020. Combining ability for yield and kernel eating quality in synergistic super sweet corn lines derived from exotic germplasm. Khon Kaen Agriculture Journal. 48(6):1036-1049.
- Jansuna, S., Charoensup, L., Jirakiattikul, Y. and **Harakotr, B.** 2020. Effects of Drying Temperatures and Times on Antioxidant Contents and Their Activities of *Centella asiatica* (L.) Urb. Leaves. Thai Science and Technology Journal. 28(12): 2261-2272.
- Phuangchik, T., **Harakotr, B.** and Buachum, K. 2020. Selection of Bamboo (*Dendrocalamus sericeus* Cl. Sang Mon) for Biomass Production. Thai Journal of Science and Technology. 9(4): 512-520.

Phuangchik, T., Aramratsam, C. and **Harakotr, B.** 2020. Effects of Fertilizer on Growth of *Dendrocalamus copelandii* (Gamble ex Brandis). Thai Journal of Science and Technology. 9(4): 521-528.

Wasuwatthanakool, W. Jirakiattikul, Y. and **Harakotr, B.** 2020. Determination of Combining Ability for Yield and Yield Related Traits in Super Sweet Corn Lines Based on Line x Tester Method. Thai Journal of Science and Technology. 9(6): 799-810.

Suthiluk, W., Suksong, K., Rithichai, P. and **Harakotr, B.** 2021. Changes of physical characteristic and quality during seed development in synergistic sweet corn inbred lines. Khon Kaen Agriculture Journal. 48(Suppl. 1): 323-328.

Charoensup, L., Jirakiattikul, Y., Rithichai, P. and **Harakotr, B.** 2021. Contents of Triterpenes, Phenolic Compounds, and Antioxidant Capacity of *Centella asiatica* (L.) Urban. Thai Science and Technology Journal. 29(3): 469-482.

Conferences:

-Patents/อนุสิทธิบัตร