

Curriculum Vitae

1. General

Name: Anchaya Mongkolchaiyaphruek (Chitra Trakulnaleamsai)
Gender: Female
Date of Birth: February 7, 1971
Nationality: Thai
Address: Dept. of Horticulture, Fac. of Agriculture, Kasetsart university,
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2. Academic Education:

2005 **Ph.D** (Engineering) Osaka University, Japan, major in Plant Biotechnology
Thesis entitled: Analysis of Phytochrome A Photoreceptors in
Non-Photosynthetic Parasitic Plants.
1999 **M.Sc.** (Agriculture), Kasetsart University, Thailand, major in Horticulture.
Thesis entitled: Effect of Temperature on Senescent Spotting in Kluai Khai
(*Musa AA* Group).
1994 **B.Sc.** (Agriculture), Kasetsart University, Thailand, major in Horticulture.

3. Working Experiences:

2005-present time Lecturer at Dept. of Horticulture, Fac. of Agriculture, Kasetsart
University, Thailand.

4. Research Interests:

Postharvest Physiology and Technology of Horticultural Crops
Plant Senescence
Plant Physiology and Biochemistry
Plant Molecular Biology
DNA Technology

5. Current Research:

Effect of ethylene on petal fading in cut *Dendrobium* orchid flowers
Effect of temperature on quality during storage of Globba rhizome.

6. Publications:

- Khamhaeng, S., Mongkolchaiyaphruek, A. and W. Malaphan. 2023. Effect of Cell-free Culture Broth of Lactic Acid Bacteria, *Pediococcus lolii*, on Inhibition of Browning and Quality of Minimally Processed Sweet Bamboo (*Dendrocalamus asper* Backer ex K. Heyne) Shoot. *Agricultural Sci. J.* Vol. 54 (1) : 82-101.
- Kana, S., Trakulnaleamsai, S. and A. Mongkolchaiyaphruek. 2022. Effect of Bacterial Indole 3 Acetic Acid on Quality of Cherry Tomato during Storage. *Agricultural Sci. J.* 53 : 3 (Suppl.) : 16-19.
- Thapo, K., P. Sirithanakorn and A. Mongkolchaiyaphruek. 2021. Effect of Ethylene and 1-MCP on Bud and Open Flower Senescence in *Dendrobium* 'Khao Sanan' Orchid. *Agricultural Sci. J.* 52 : 2 (Suppl.) : 45-48.
- Inoiew, U., S. Trakulnaleamsai and A. Mongkolchaiyaphruek. 2021. Effect of Indole-3-Acetic Acid from Bacteria (*Micrococcus yunnanensis*) on Vase Life of *Dendrobium* cv. Khao Sanan. *Agricultural Sci. J.* 52 : 2 (Suppl.) : 115-118.
- Pongkarn, S. and A. Mongkolchaiyaphruek. 2020. Effects of Temperatures on Quality and Storage Life of Green Pepper (*Piper nigrum* L.). *Agricultural Sci. J.* 51(2): 192–208.
- Noopan, A., K. Boonruang and A. Mongkolchaiyaphruek. 2019. Extending the Post-harvest Life of Rambutan by Modified Atmosphere Packaging. *Agricultural Sci. J.* 50 : 3 (Suppl.) : 228-231.
- Obklin, N., K. Boonruang and A. Mongkolchaiyaphruek. 2019. Effect of Aloe vera Gel Coating on Postharvest Quality and Shelf Life of Fresh Cut Shallot (*Allium ascalonicum* L.). *Agricultural Sci. J.* 50 : 3 (Suppl.) : 119-122.
- Bandara, D.M.U.S., P. Boonkorkaew and A. Mongkolchaiyaphruek. 2019. Effects of Putrescine on Vase Life of Cut *Dendrobium* Inflorescences. *Thai J. Agric. Sci.* 52(2): 105–118.
- Nguyen, T.D., A. Mongkolchaiyaphruek, V. Srilaong and S. Tongchitpakdee. 2018. Effect of Ethylene Concentrations on The Quality and Enzyme Activity of Dragon Fruit (*Hylocereus Undatus*). *Italian Journal of Food Science.* 30: 77-81.
- Ausahawong, K., P. Boonkorkaew, P. Kasemsap and A. Mongkolchaiyaphruek. 2018. Growth and Photosynthetic Parameters of *Dendrobium* Orchids Cultivated under Different Greenhouse Conditions. *Agricultural Sci. J.* 49(2) (Suppl.): 573-576.
- Chaisiriku, P., Panthong, K., Klaydokjun, W., Antarasane, T., Mongkolchaiyaphruek, A. and Malaphan, W. 2016. Antibrowning in Fresh-Cut 'Mun Deun Kao' Mango (*Mangifera indica* L.) by using the Product from *Pediococcus lolii*. ***Agricultural Sci. J.* 47(3 supp): 17-21.**

Ulamkul, P., Boonjiam, S., Juengprasertsak, S., Noikaew, T. and **Mongkolchaiyaphruek, A.** 2015. The Development of the Colour Stripe for Evaluating the Quality of Mango cv. Nam Dok Mai Si Thong (*Mangifera indica* L.). *Agricultural Sci. J.* **46(3/1): 48-51.**

Sriwilaiwan, S., Suwanagul, A. and **Mongkolchaiyaphruek, A.** 2015. Effect of Postharvest Water Stress on Quality and Vase Life of Globba (*Globba williamsiana* cv. Giant Violet Dancing Girl) Inflorescence. *Agricultural Sci. J.* **46 (2): 177-87.**

Jikla, W., Taychasinpitak, T. Boonkorkaew, P. and **Mongkolchaiyaphruek, A.** 2013. Shading with color shade of saran net on quality and yield of Patumma. *Agricultural Sci. J.* **44 (1): 83-92.**

Jikla, W., Taychasinpitak, T. Boonkorkaew, P. and **Mongkolchaiyaphruek, A.** 2013. Mycorrhiza application on quality and yields of Patumma. *Agricultural Sci. J.* **44 (1): 75-82.**

Ketmaro, S., Taychasinpitak, T., **Mongkolchaiyaphruek, A.** and Wongchaochant, S. 2012. Effect of colchicines on increasing pollen viability in a *Curcuma* hybrid (*Curcuma sparganifolia* × *C. parviflora*). *Kasetsart J. (Nat. Sci.)*. **46: 363 – 370.**

Metaprasit, S., Taychasinpitak, T. and **Mongkolchaiyaphruek, A.** 2011. Effect of temperature on quality during storage of Globba rhizome. *Agricultural Sci. J.* **42 (3/1): 363-366.**

Saksing, W., **Mongkolchaiyaphruek, A.** and Ketsa, S. 2010. Effect of ethylene on petal fading in cut *Dendrobium* orchid. pp. 125-131. *Proceedings of Maejo University Annual Conference, Chiang Mai, Thailand.*

Takagi, K., Okazawa, A., Wada, Y., **Mongkolchaiyaphruek, A.**, Fukusaki, E., Yoneyama, K., Takeuchi, Y. and Kobayashi, A. 2009. Unique phytochrome responses of the holoparasitic plant *Orobancha minor*. *New Phytologist* **182: 965-974.**

Mongkolchaiyaphruek (Trakulnaleumsai), A(C)., Ketsa, S., and van Doorn, W.G. 2006. Temperature effects on peel spotting in 'Sucrier' banana fruit. *Postharvest Biol. Technol.* **39: 285-290.**

Okazawa, A., **Mongkolchaiyaphruek (Trakulnaleumsai), A(C).**, Hiramatsu, H., Fukusaki E., Yoneyama, K., Takeuchi, Y., and Kobayashi, A. 2005. Cloning of a cryptochrome homologue from the holoparasitic plant *Orobancha minor* Sm. *Plant Physiology and Biochemistry.* **43: 499-502.**

Mongkolchaiyaphruek (Trakulnaleumsai), A(C)., Okazawa, A., An, C., Kajiyama, S., Fukusaki E., Yoneyama, K., Takeuchi, Y., and Kobayashi, A. 2005. Isolation and Characterization of a cDNA Encoding Phytochrome A in the Non-photosynthetic Parasitic Plant, *Orobancha minor* Sm. *Biosci. Biotechnol. Biochem.* **69: 71-78.**

Conferences:

- 8-12 April 2009 6th International Postharvest Symposium, Antalya, Turkey **(Poster)**
(Ethylene participation in anthocyanin degradation in *Dendrobium* orchid flowers)
- 24-25 Jun. 2004 The International Parasitic Plant Society Symposium on Parasitic Weeds, Durban, South Africa **(Poster)**
- 5-9 Jun. 2004 The 58th Yamada Conference, Okazaki, Japan **(Poster)**
- 28-31 Mar. 2004 International Conference, Hiroshima, Japan **(Oral)**
- 3-6 Aug. 2003 Plant Growth Regulation Society of America 13th Annual Meeting, Vancouver, Canada **(Oral)**
- 28-30 Oct. 2002 International Conference, Osaka, Japan **(Oral)**

7. Training Courses:

- 2008 30th Annual Postharvest Technology Short Course University of California, Davis, USA
- 2006 The International Course on Research and Development in Postharvest Practices, State of Israel

8. Scholarships:

- 2000-2004 Monbusho Scholarship
(Ministry of Education, Science, Sports and Culture, Government of Japan)