

Siriwat Boonchaisri

(Ph.D.)



Contact

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Languages

English – IELTS 7.0

Hobbies

- Thai classical music
- Rugby
- Badminton
- Photography

Summary

Plant scientist specialized in a cutting-edge technology of metabolomics, utilizing both GC-MS and LC-MS to tackle several biological questions. Well-versed in bioinformatics tools including BLAST, Metaboanalyst and Genedata expressionist. A strong background in plant physiology to understand Thai medicinal plants as well as to manipulate postharvest physiology of cash crops.

Skill Highlights

- GC-MS and LC-MS based metabolomics
- Leaf gas exchange
- Postharvest technology
- Charcoal utilization
- Chlorophyll *a* fluorescence

Experience

Assist. Prof., University of Phayao

- Deliver lectures – e.g. Fundamental Biology, Plant Physiology and Plant Growth
- Supervise research projects for the final year students

Demonstrator: RMIT University, AU & University of Essex, UK

- Cell, Structure and Function
- Plant Biology and Environmental Biology

Education

Doctor of Philosophy: **Biology** – 2020

RMIT University, Melbourne, Australia

Master of Philosophy: **Biology** – 2007

University of Essex, Colchester, UK

Bachelor of Science: **Biology** – 1998

Chiang Mai University, Chiang Mai, Thailand

Selected Publications

Boonchaisri, S., Rochfort, S., Stevenson, T., & Dias, D. A. (2021). LC-MS untargeted metabolomics assesses the delayed response of glufosinate treatment of transgenic glufosinate resistant (GR) buffalo grasses (*Stenotaphrum secundatum* L.). *Metabolomics*, 17(3), 1-17.

Boonchaisri, S., Stevenson, T., & Dias, D. A. (2020). Utilization of GC-MS untargeted metabolomics to assess the delayed response of glufosinate treatment of transgenic herbicide resistant (HR) buffalo grasses (*Stenotaphrum secundatum* L.). *Metabolomics*, 16(2), 22.

Boonchaisri, S., Rochfort, S., Stevenson, T., & Dias, D. A. (2019). Recent developments in metabolomics-based research in understanding transgenic grass metabolism. *Metabolomics*, 15(4), 47.

Boonchaisri, S. and Hongsit, N. (2014). Bio-photovoltaic conversion device made from chitosan nanofibers and varieties of natural pigments", Walailak Journal of Sci & Tech, 11(50),445-454.

Boonchaisri, S and Srichaiwong, U. (2011). Effect of chitosan on some quality and capsicum oleoresin content of chilli during storage. Warasan Witthayasat Kaset. 42, 3(Special Issue): 224-227.

Boonchaisri, S. and Tuntisho, D. (2011). Effect of 5 different fertilizer recipes on the vegetative growth of passion fruit. Warasan Witthayasat Kaset. 42, 2(Special Issue): 217-220.

Boonchaisri, S. and Tuntisho, D. (2011). Comparison of quantity and quality of passion fruits grown in 5 different fertilizer recipes. Warasan Witthayasat Kaset. 42, 2(Special Issue): 221-224.

Boonchaisri, S. (2014). Development of a Curriculum for a Watershed School as a Method to Conserve a Watershed area based on the Local Community Participation : the Case Study of the Upper Part of Yom River Basin (1st year). Area Based Development Research Journal. 6(6): 23-39. Retrieved from <https://so01.tci-thaijo.org/index.php/abcjournal/article/view/96043>.

Boonchaisri, S. (2011). Biogas production from disposal banana peels. *Proceedings of the 4th Thailand-Japan International Academic Conference: "Knowledge, No Boundary", The University of Tokyo, Japan.* 41-42.