

## BIOGRAPHY

Passakorn Phobphimai was born on October 10, 1997, in Nakhon Ratchasima, Thailand. In 2015, he finished high school at Sungnoen School, Nakhon Ratchasima. In 2021, he graduated with a bachelor's degree from the School of Crop Production Technology at Suranaree University of Technology, Nakhon Ratchasima. He spent 1 year as the research assistant (RA) of Assoc. Prof. Dr. Mariena Ketudat-Cairns in the School of Biotechnology, learning about PCR techniques, methods for DNA extraction, and LAMP techniques. He started his master degree in the School of Biotechnology, Institute of Agricultural Technology, Suranaree University of Technology, Nakhon Ratchasima, with the "SUT Graduate Degree Scholarship for Undergraduate Students with Academic Achievement" in 2023.

He presented poster presentations, including:

1) A poster presented at the 35<sup>th</sup> Annual Meeting of the Thai Society for Biotechnology and International Conference (TSB 2023), Nakhon Ratchasima, Thailand: **Validation of Loop-Mediated Isothermal Amplification for Date Palm (*Phoenix dactylifera* L.) Sex Identification.**

2) The 8<sup>th</sup> SUT International Colloquium on Agricultural Technology 2025, Nakhon Ratchasima, Thailand: **Advancing Date Palm Sex Determination: Development of a Stabilized Freeze-Dried LAMP Assay Protocol.**

Part of this thesis work was published in the Suranaree Journal of Science and Technology (2)2025 under the title: **SIMPLE DNA EXTRACTION AND VALIDATION OF MOLECULAR MARKERS FOR EARLY SEX DETERMINATION IN NEW THAI *Cannabis sativa* L. CULTIVARS.**

His innovation, the "MANDate date palm gender test kit", won two gold awards (**ACE Gold Award and Gold Medal**) at the 2023 Kaohsiung International Invention and Design EXPO (KIDE 2023) in Taiwan.

He is **the CTO and Co-founder of Gen-A-Tech Co., Ltd.**, where he plays a key role in technology transfer, turning academic research into practical biotech tools for agriculture.