Shinta Wulansari

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PROFESSIONAL SUMMARY

A Biochemical Technology graduate with expertise on Enzyme Technology and Biochemistry. The one who receipt of Petchra Pra Jom Klao Scholarship for master's degree at King Mongkut's University of Technology Thonburi. I have experience work with an enzyme called epimerase enzyme. The enzyme working on common sugar that could convert into rare sugar. Most of enzyme production in our laboratory applied into agricultural waste to produce high value product such as for food, cosmetic, biofuel, etc. I am a consistent individual, hard worker, responsible and time discipline.

EDUCATION

2023 Master of Science in Biochemical Technology

Research field: Enzyme discovery

King Mongkut's University of Technology Thonburi, Thailand

Thesis title: Cloning of *DPEase* gene and biochemical characterization of recombinant Dpsicose 3-epimerase from *Iocasia fonsfrigidae* SP3-1 and its application in rare sugar production.

Relevant coursework: Enzyme technology, carbohydrate technology, nucleic acid, functional properties of biochemical, biochemical techniques and laboratory skills, and nanobiosensors.

2017 Bachelor of Science in Chemistry

Research field: Biochemistry

State Islamic University of Maulana Malik Ibrahim Malang

Thesis title: Molecular identification of cellulolytic bacteria isolated from rice bran by using 16S rRNA.

Relevant coursework: Basic chemistry, basic biology, biochemistry, organic chemistry

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EXPERIENCES

2022-2023 Research Assistant (sugar analysis) in Enzyme Laboratory

- Conducting preliminary experiment on Amylase and Cellulase activity isolated from Banana peel
- Conducting research focus on Cellobiose 2-epimerase enzyme converting lactose into epilactose

2016-2017 Research Assistant, microbial exploration (extremophiles) and bacteria isolation from rice bran

- Identification of their 16S rRNA
- Conducting their enzymatic activities

2015-2016 Research Assistant, basic chemistry, organic chemistry, analytical chemistry, and biochemistry laboratory

- Preparing sample, lecture, and equipment required during practical experiment

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PUBLICATIONS IN PAST 5 YEARS

Wulansari, S., Heng, S., Ketbot, P., Baramee, S., Waeonukul, R., Pason, P., Ratanakhanokchai, K., Uke, A., Kosugi, A., & Tachaapaikoon, C. (2023). A Novel D-Psicose 3-Epimerase from Halophilic, Anaerobic *Iocasia fonsfrigidae* and Its Application in Coconut Water. *International Journal of Molecular Sciences*, *24*(7), 6394. https://doi.org/10.3390/ijms24076394

Eat, S., Wulansari, S., Ketbot, P., Waeonukul, R., Pason, P., Uke, A., Kosugi, A., Ratanakhanokchai, K., & Tachaapaikoon, C. (2024). A novel cellobiose 2-epimerase from anaerobic halophilic *Iocasia fonsfrigidae* and its ability to convert lactose in fresh goat milk into epilactose. *Journal of The Science of Food and Agriculture*, 104: 8529-8540. https://doi.org/10.1002/jsfa.13680

Krisnamurti, G. C. ., Wulansari, S. ., & Sari, D. R. T. . (2022). ?-solanine and ?-chaconine from Potato (Solanum tuberosum) for Endometrial Cancer Therapy: In silico Study. *Proceeding International Conference on Religion, Science and Education*, *1*, 571–576.

ACHIEVEMENTS

2017 Awardee Petchra Phra Jom Klao Scholarship
2019 Awardee School of Bioresources and Technology Scholarship