



Biography

Full name, Title: BSc. Nguyen Thi Hien Trang

Position: MSc Candidate in Microbiology

Affiliation: GREENLAB, Center for Life Sciences Research (CELIFE), Faculty of Biology, VNU University of Science, Vietnam National University, Hanoi (VNU-HUS), Vietnam



Nguyen Thi Hien Trang is a Master's student in Microbiology at the Faculty of Biology, VNU University of Science, Vietnam National University, Hanoi (VNU-HUS). She is also a researcher at the GREENLAB laboratory of the Center for Life Sciences Research (CELIFE). She received her Bachelor's degree in Biotechnology from VNU-HUS in 2025 and began her master's studies the same year. Her work spans three fields: beneficial microorganisms, food safety, and functional food development.

She develops probiotic and postbiotic productions from beneficial microorganisms indigenous to Vietnam, mainly *Bacillus* and *Lactobacillus*. These strains are formulated with bioactive compounds from Vietnamese medicinal plants. She treats quality and food safety as matters settled at the strain-screening stage, following the FAO/WHO, EFSA and FDA/GRAS frameworks, before a formulation is finalised and taken into production. She combines molecular biology and bioinformatics to screen, characterise and select promising strains. Once a strain is selected, she optimises the conditions for biomass production.

She is currently working on the project “Development of probiotic and postbiotic food products from indigenous microorganisms combined with bioactive compounds from Vietnamese medicinal plants”, part of the University's research collaboration and supervised by Assoc. Prof. Dr. Bui Thi Viet Ha (VNU-HUS). She has presented her work at the National Biotechnology Conference 2025.