CURRICULUM VITAE

Name Niphawan Panti, Ph.D.

Position Lecturer

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EDUCATION

2017-2021 Ph.D. (Advanced Life Sciences/Biotechnology)

Department of Biotechnology, College of Life sciences, Ritsumeikan University, Shiga, Japan

Dissertation: Enzymatic and Structural Studies of GH Family 87 α-1,3-Glucanase from *Streptomyces thermodiastaticus* HF3-3

2015-2017 M.Sc. (Applied Microbiology)

Department of biology, Faculty of Science, Chiang Mai University, Chiang Mai, Thailand

Thesis: Development of Salad Dressing from Soymilk Kefir

2011-2014 B.Sc. (Microbiology)

Department of biology, Faculty of Science, Chiang Mai University, Chiang Mai, Thailand

Graduate Project: Kefir Production from Soy Milk

SCHOLARSHIPS

2017-2021 Innovative Asia 1st Batch (Japan International Cooperation Agency, Japan)

2015-2017 Research and Researchers for Industries (Thailand Research Fund, Thailand) in collaboration with Work for Health Society Co., Ltd. (Lemon Farm)

PUBLICATIONS

Panti, N., Cherdvorapong, V., Itoh, T., Hibi, T., Suyotha, W., Yano, S., and Wakayama, M. (2021). Functional analysis of α-1,3-glucanase domain structure from *Streptomyces thermodiastaticus* HF3-3. Journal of General and Applied Microbiology. 67, 85-97.

Itoh, T., **Panti, N.**, Hayashi, J., Toyotake, Y., Matsui, D., Yano, S., Wakayama, M. and Hibi, T. (2020). Crystal structure of the catalytic domain of thermostable GH87 α-1,3-glucanase from *Streptomyces thermodiastaticus* strain HF3-3. Biochemical and Biophysical Research Communications, 533, 1170-1176.

Cherdvorapong, V., **Panti, N.**, Suyotha, W., Tsuchiya, Y., Toyotake, Y., Yano, S., and Wakayama, M. (2020). Prevention of oral biofilm formation and degradation of biofilm by recombinant α-1, 3-glucanases from *Streptomyces thermodiastaticus* HF3-3. Journal of General and Applied Microbiology, 66, 256-264.

PRESENTATIONS

Niphawan Panti, Sittisin Bovonsombut, Sakunnee Bovonsombut. Kefir Production from Soy Milk. The 25th International ICFMH | FoodMicro 2016 Conference, University College Dublin, Ireland, 19th – 22nd July 2016. (Poster presentation)

Niphawan Panti, Sittisin Bovonsombut, Sakunnee Bovonsombut. Efficacy of Soymilk Kefir Fermentation by Using Kefir Grains and Kefir Broth. The 7th National and International Graduate Study Conference) "Thailand 4.0 Creative Innovation for Sustainable Development, Bangkok, Thailand 20th -21st July 2017. (Oral presentation)

Niphawan Panti, Vipavee Cherdvorapong, Wasana Suyotha, Kazuyoshi Takagi, Shigekazu Yano, Hayashi Junji and Mamoru Wakayama. Characterization recombinant of α-1,3-glucanase from *Streptomyces thermodiasticus* HF3-3. The International Conference on Biotechnology and Bioengineering, Budapest, Hungary, 24th -26th October 2018. (Poster presentation)

Niphawan Panti, Vipavee Cherdvorapong, Wassana Suyotha, Kazuyoshi Takagi, Shigekazu Yano, Yosuke Toyotake, Mamoru Wakayama. Domain structure and function of α-1,3-Glucanase from *Streptomyces thermodiastaticus* HF3-3. The 71st Annual Meeting of the Society of Biotechnology of Japan (SBJ), Okayama, Japan, 16th -18th September 2019. (Oral presentation)

Niphawan Panti, Vipavee Cherdvorapong, Wassana Suyotha, Kazuyoshi Takagi, Shigekazu Yano, Yosuke Toyotake, Mamoru Wakayama. Structure and Function of -1,3-Glucanase from *Streptomyces thermodiastaticus* HF3-3. The International Conference on Enzymology and Molecular Biology, Berlin, Germany, 6th -7th December 2019. (Poster presentation)

TECHNICAL EXPERIENCES

Microbiology: General microbiology skills (aseptic and sterile technique, plating methods, media preparation, microscopy, identification of bacteria, operation of biological safety cabinet etc.), food microbiology, fermented food (kefir, kombucha, yogurt, tempeh, wine, vinegar), water sample analysis, MPN, diagnostic and biochemical screening for enteric bacteria

Biochemistry and molecular biology: PCR, Site-directed mutagenesis, molecular cloning, gel electrophoresis, SDS-PAGE, protein extraction, protein purification, protein crystallization, protein modification, structural proteomics, thin-layer chromatography, FPLC, HPLC

RESEARCH INTERESTS

Biotechnology, applied microbiology, probiotics, microbiome, microbial enzymes, enzymes used as dietary supplements, enzymes for food industry, structural biology, fermented food, fermentation, genetic engineering

WORK EXPERIENCES

Research and Development, Amerz Co., Ltd. (April 2021 – August 2021)

- Cosmetic product research and development
- Preparation of ISO 22716 (Cosmetic GMP) documents and coordinate the Innovation and Technology Assistant Program (ITAP) in collaboration with System Excellent Co., Ltd and Khonkaen University
- General manager, intra and inter-department coordinator
- Marketing, advertisement, and visual brand identity development
- Packaging designer