UNIVERSITAS GADJAH MADA
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STAFF HANDBOOK

Name	*Dian Anggraini Suroto, S.T.P., M.P., M.Eng., Ph.D.*		
Post	*Omics and Microorganism Bioprocessing in Food and Agricultural Product Applications*		
Academic career	*Doctoral Degree (Advanced Science and Biotechnology)*	*Graduate School of Engineering, Osaka University, Japan*	*2011-2018*
	Master Degree (Advanced Science and Biotechnology)	*Graduate School of Engineering, Osaka University, Japan*	*2009-2011*
	Master Degree (Food Science and Technology)	*Universitas Gadjah Mada, Indonesia*	*2003-2005*
	Undergraduate Degree (Food and Agricultural Product Technology)	*Universitas Gadjah Mada, Indonesia*	*1995-1999*
Employment	*Lecturer*	*Universitas Gadjah Mada*	*2005-present*
	Head of Waste Management Laboratory	*Universitas Gadjah Mada*	*2022-2025*
Research and development projects over the last 5 years	*1) Development of Instant Sourdough from Natural Starter of Local Indonesian Fruits (2023), 27 million rupiah* *Personils: Rini Yanti, **Dian Anggraini S**, Manikharda* *2) Development of Drinked Yoghurt Products with Indigenous Lactobacillus plantarum Dad-13 lactic acid bacteria (2022), 251.1 million rupiah* *Personils: Endang SR, **Dian Anggraini S*** *3) Development of nanohydrogel preparations standard extract of broadleaf plantain (Plantago major L.) for healing of diabetic wounds (2022), 150 million rupiah*		

	Personils: ***Dian Anggraini S*** 4) *Chemical, physical, and microbiological characteristics of malsai's raw materials and innovative products (2021), 218.4 million rupiah* *Personils:* ***Dian Anggraini S*** 5) *The effect of divalent or trivalent metal ions addition on the agricultural waste saccharification process using crush enzymes from high cellulase producing mutant strains Streptomyces bungoensis (2021), 15 million rupiah* *Personils:* ***Dian Anggraini S*** 6) *Characterization and production of cellulase enzymes form ribosome engineered mutants of Streptomycetes lividans in agricultural waste (2020), 15 million rupiah* *Personils:* ***Dian Anggraini S*** 7) *Robosom engineering application to increase the production of enzymes and antimicrobial compounds (2019), 15 million rupiah* *Personils:* ***Dian Anggraini S***
Industry collaborations over the last 5 years	-
Patents and proprietary rights	*Proses Kimia, Fisika, dan Biologi pada Pembuatan Roti 2019*
Important publications over the last 5 years	*Selected recent publications from a total of approx: 21* Danila, I. R., Yanti, R., & **Suroto, D. A.** (2023). Microbiota Properties and Texture of Rice Flour Bread with Pineapple Starter. *Journal of Applied Agricultural Science and Technology*, 7(3): 225-235. https://doi.org/10.55043/jaast.v7i3.130. Aziz, F. N., Utami, T., **Suroto, D. A.**, Yanti, R., & Rahayu, E. S. (2023). Fermentation of pineapple juice with Lactiplantibacillus plantarum subsp. plantarum Dad-13: Sensory and microbiological characteristics. *Czech Journal of Food Sciences*, 41(3): 221-229. https://doi.org/10.17221/243/2022-CJFS. Krisnawati, R., Cahyanto, M. N., Sardjono, **Suroto, D. A.**, & Widada, J. (2023). Transcriptional changes in the xylanolytic filamentous fungus Aspergillus

tubingensis NBRC 31125 grown under repressive conditions. *Agriculture and Natural Resources*, 7(3): 523-532. ttps://li01.tci-thaijo.org/index.php/anres/article/view/260146.

Alwi, A. N. S., Rahayu, E. S., Utami, T., Yanti, R., **Suroto, D. A.** (2023). Formulation of Fruit-Based Probiotic Drink From Snake Fruit *(Salacca Zalacca*) and *Lactiplantibacillus plantarum* subsp. *plantarum* Dad-13. *Current Research in Nutrition and Food Science Journal*, 11: 351–359. https://doi.org/10.12944/crnfsj.11.1.26.

Tologana, R. D., Wikandari, R., Rahayu, E. S., **Suroto, D. A.**, & Utami, T. (2023). Correlation between the chemical, microbiological and sensory characteristics of cream cheese using a mixed and single probiotic culture. *Journal of food science and technology*, 60(1), 181–189. https://doi.org/10.1007/s13197-022-05603-0

Wattimury, A., **Suroto, D. A.**, Utami, T., Wikandari, R., & Rahayu, E. S. (2023).In silico analysis of antibiotic resistance genes in *Lactiplantibacillus plantarum* subsp. *plantarum* Kita-3. *Indonesian Journal of Biotechnology*, 28(2): 102-111. https://dx.doi.org/10.22146/ijbiotech.72550

Majid, A. A., **Suroto, D. A.**, Utami, T., & Rahayu, E. S. (2023). Probiotic potential of kombucha drink from butterfly pea (*Clitoria ternatea* L.) flower with the addition of *Lactiplantibacillus plantarum* subsp. *plantarum* Dad-13. *Biocatalysis and Agricultural Biotechnology*, 51, 102776. https://doi.org/10.1016/j.bcab.2023.102776

Samodra, E. M. A., **Suroto, D.**, Utami, T., Wikandari, R., & Rahayu, E. S. (2022). Cold Stress Response Genes of *Lantiplantibacillus plantarum* subsp. *plantarum* Mut-3 and *Lantiplantibacillus plantarum* subsp. *plantarum* Mut-7 Support the Ability to Survive in Low-Temperature Conditions. *HAYATI Journal of Biosciences*, 30(1), 65-70. https://doi.org/10.4308/hjb.30.1.65-70

Krisnawati, R., Cahyanto, M. N., Sardjono, S., **Suroto, D. A.**, & Widada, J. (2022). RNA-seq data of *Aspergillus tubingensis* NBRC 31125 in carbon catabolite repressor related to xylanase production. *Data in brief*, 45, 108700. https://doi.org/10.1016/j.dib.2022.108700

Safitri, I. O., **Suroto, D. A.**, Sardjono, S., Cahyanto, M. N., Sardjono, S., & Widada, J. (2022). Draft genome sequence of *Trichoderma asperellum* MLT1J1,

isolated from coconut husk in Maluku, Indonesia. *Korean Journal of Microbiology*, 58(3): 208-210. https://doi.org/10.1016/j.dib.2022.108700

Gatya, M., Fibri, D. L. N., Utami, T., **Suroto, D. A.**, & Rahayu, E. S. (2022). Gut Microbiota Composition in Undernourished Children Associated with Diet and Sociodemographic Factors: A Case-Control Study in Indonesia. *Microorganisms*, 10(9), 1748. https://doi.org/10.3390/microorganisms10091748

Hidayati, F. L. N., **Suroto, D. A.**, Sardjono, Cahyanto, M. N., & Widada, J. (2022). Whole-genome sequence data of cellulase-producing fungi *Trichoderma asperellum* PK1J2, isolated from palm empty fruit bunch in Riau, Indonesia. *Data in brief*, 45, 108607. https://doi.org/10.1016/j.dib.2022.108607

Safitri, I. O., **Suroto, D. A.**, Widada, J., Sardjono, S., & Cahyanto, M. N. (2022). Effects of glucose as carbon catabolite repressor on alpha-amylase and glucoamylase production in Indonesian indigenous fungi. *Malaysian Journal of Microbiology*. https://doi.org/10.21161/mjm.211279.

Krisnawati, R., Sardjono, Widada, J., **Suroto, D. A.**, &Cahyanto, M. N. (2022). Effect of Glucose on Endo-xylanase and β-xylosidase Production by Fungi Isolated in Indonesia. *Journal of Pure Applied Microbiology*,16(1): 226-234. https://doi.org/10.22207/JPAM.16.1.12

Jannah, S. R., Rahayu, E. S., Yanti, R., **Suroto, D. A.**, & Wikandari, R. (2022). Study of Viability, Storage Stability, and Shelf Life of Probiotic Instant Coffee *Lactiplantibacillus plantarum* Subsp. *plantarum* Dad-13 in Vacuum and Non Vacuum Packaging at Different Storage Temperatures. *International Journal of Food Science*, 2022, 1663772. https://doi.org/10.1155/2022/1663772

Luwidharto, J. C. N., Rahayu, E. S., **Suroto, D. A**., Wikandari, R., Ulfah, A., & Utami, T. (2022). Effects of *Spirulina platensis* Addition on Growth of *Lactobacillus plantarum* Dad 13 and *Streptococcus thermophilus* Dad 11 in Fermented Milk and Physicochemical Characteristics of the Product. *Applied Food Biotechnology*, 9(3), 205–216. https://doi.org/10.22037/afb.v9i3.37013

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	Indonesian Indigenous Lactobacillus Probiotics. *Applied Food Biotechnology,* 8(4): 267-274. http://dx.doi.org/10.22037/afb. v8i4.34448 Darmastuti, A., Hasan, P. N., Wikandari, R., Utami, T., Rahayu, E. S., & **Suroto, D. A**. (2021). Adhesion Properties of *Lactobacillus plantarum* Dad-13 and *Lactobacillus plantarum* Mut-7 on Sprague Dawley Rat Intestine. *Microorganisms*, 9(11), 2336. https://doi.org/10.3390/microorganisms9112336 Andriani, D., Nur Hasan, P., Utami, T., **Suroto, D. A.**, Wikandari, R., & Rahayu, E. S. (2021). Genotypic and Phenotypic Analyses of Antibiotic Resistance in Indonesian Indigenous Lactobacillus Probiotics. *Applied Food Biotechnology*, 8(4): 267-274. http://dx.doi.org/10.22037/afb.v8i4.34448 **Suroto, D. A.**, Nur Hasan, P., & Rahayu, E. S. (2021). Genomic insight of two indigenous probiotics *Lactobacillus plantarum* Dad-13 and *Lactobacillus plantarum* Mut-7 from different origins of Indonesian fermented foods. *Biodiversitas*, 22(12): 5491-5500. https://doi.org/10.13057/biodiv/d221233 Wikandari, R., Putro, A. W., **Suroto, D. A.**, Purwandari, F. A., & Setyaningsih, W. (2021). Combining a Flipped Learning Approach and an Animated Video to Improve First-Year Undergraduate Students' Understanding of Electron Transport Chains in a Biochemistry Course. *Journal of Chemical Education*, 98(7): 2236-2242. https://doi.org/10.1021/acs.jchemed.0c01477
Activities in specialist bodies over the last 5 years	*Organisation* *Role* *Period*