



DEPARTMENT OF FOOD & AGRICULTURAL PRODUCT TECHNOLOGY

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STAFF HANDBOOK

Name	Dr.nat.techn. Aulia Ardhi, S.T.P., M.Sc.		
Post	Modified Starch and Bioactive Component Carriers		
Academic career	Doctoral Degree	University of Natural Resources and Life Sciences, Austria	2022-2025
	Master Degree (Food Science and Technology)	Universitas Gadjah Mada, Indonesia	2011-2013
	Undergraduate Degree (Food and Agricultural Product Technology)	Universitas Gadjah Mada, Indonesia	2005-2009
Employment	Lecturer	Universitas Gadjah Mada	2018-present
Research and development projects over the last 5 years	No	Title of Research and Development Projects	
	1	Dual Modification Using Microwave Irradiation and Butyrylation to Improve the Physicochemical Properties and Resistant Starch Potential of Arenga Starch (<i>Arenga pinnata</i>) Period: 2021 Amount of Financing: 20 million rupiah Personnel: Aulia Ardhi	
	2	Modification of Arenga Starch (<i>Arenga pinnata</i>) Using Microwave Irradiation and Ultrasonication: Changes in Physicochemical and Rheological Properties and the Quality of the Resulting Instant Starch Noodles Period: 2020 Amount of Financing: 15 million rupiah Personnel: Aulia Ardhi	
Industry collaborations over the last 5 years	No	Industry	Year
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Patents and proprietary rights	No	Title	Year
	1	Phytonutrient-Rich Palm-Based Nanostructured Lipid Carriers (NLC) from a Combination of Red Palm Oil, Palm Stearin, and Palm Kernel Stearin and Their Preparation Method	2021



Important publications over the last 5 years	No	Title of Research and Development Projects		
	1	Ardhi, A. , Raharjo, S., Sudjarwo, W., Schreiner, M. (2024). Oxidative stability of optimized nanostructured lipid carriers containing thymoquinone-rich oil. <i>Journal of the American Oil Chemists' Society</i> , 102(2). https://doi.org/10.1002/aocs.12930 .		
	2	Efendi, Z., Ardhi, A. , Santoso, U., Supriyadi, Ulfah, M., Raharjo, S. (2024). Characteristic and storage stability of nanostructured lipid carriers containing red palm oil. <i>Food Research</i> , 8(3): 363-375. https://doi.org/10.26656/fr.2017.8(3).375 .		
	3	Ardhi, A. , Raharjo, S., Sudjarwo, W., Schreiner, M. (2024). Evaluation of extraction and entrapment efficiency of black seed oil-containing emulsion as a delivery system for thymoquinone. <i>Journal of Food Measurement and Characterization</i> , 18(1): 393-401. https://doi.org/10.1007/s11694-023-02185-z .		
	4	Hehamahua, Z.N., Aziezah, E.A., Supriyadi, Ningrum, A., Ardhi, A. (2023). Sugar palm starch (<i>Arenga pinnata</i>) modification using microwave and acetylation: effect of moisture content and microwave power on physicochemical characteristics. <i>Food Research</i> , 7(5): 84 - 96. https://doi.org/10.26656/fr.2017.7(5).991 .		
	5	Saryono, Novianty, R., Suraya, N., Piska, F., Devi, S., Pratiwi, N.W., Ardhi, A. (2022). Molecular identification of cellulase-producing thermophilic fungi isolated from Sungai Pinang hot spring, Riau Province, Indonesia. <i>Biodiversitas</i> , 23(3): 1457 - 1465. https://doi.org/10.13057/biodiv/d230333 .		
Activities in specialist bodies over the last 5 years	6	Ardhi, A. , Sidauruk, A., Suraya, N., Pratiwi, N.W., Pato, U., Saryono. (2020). Molecular identification of amylase-producing thermophilic bacteria isolated from Bukit Gadang Hot Spring, West Sumatra, Indonesia. <i>Biodiversitas</i> , 21(3): 994 - 1000. https://doi.org/10.13057/biodiv/d210319 .		
	No	Organization	Role	Period
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