



DEPARTMENT OF FOOD & AGRICULTURAL PRODUCT TECHNOLOGY

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STAFF HANDBOOK

Name	Prof. Dr. Ria Millati, S.T., M.T.	
Post	Food and Agricultural Product Technology	
Academic career	Doctoral Degree (Bioscience)	Chalmers University of Technology, Sweden 2001-2005
	Master Degree (Chemical Engineering)	Universitas Gadjah Mada, Indonesia 1997-2000
	Undergraduate Degree (Chemical Engineering)	Universitas Gadjah Mada, Indonesia 1991-1996
Employment	Lecturer	Universitas Gadjah Mada 2005-present
	Secretary of Department	Department of Food and Agricultural Product Technology, Universitas Gadjah Mada 2009-2020
	Head of the Food Science Study Program	Department of Food and Agricultural Product Technology, Universitas Gadjah Mada 2021-2026
Research and development projects over the last 5 years	No.	Title of Research and Development Projects
	1	Development of Meat Analogue from <i>Rhizopus oligosporus</i> Cultivated on Food Industrial Byproducts as Future Sustainable Food Production Period: 2024 Amount of Financing: 1.2 billion rupiah Personils: Rachma W, Ria M
	2	Physical and Chemical Characterization of Mycoprotein from <i>Rhizopus oligosporus</i> Fungi as a Substitute for Meat Period: 2024 Amount of Financing: 75 million rupiah Personils: Rachma W, Ria M , Arima DS
	3	Development of Dry Anaerobic Digestion Methods to Produce Biomethane as Green Energy from Agricultural Waste Period: 2024



		Amount of Financing: 120.41 million rupiah Personils: Ria M , Teguh A, Muslikhin H	
	4	Increasing the Reaction Rate and Kinetics of Glycerolysis Using a High Shear Reactor Period: 2023 Amount of Financing: 59.4 million rupiah Personils: Chusnul H, Ria M	
	5	Optimization of Ultrasound-Assisted Extraction of Pectin from Tropical Fruit Waste Period: 2023 Amount of Financing: 55 million rupiah Personils: Ria M , Dian Anggraini S	
	6	Process Development for Synthesizing Cellulose Nanocrystals (CNCs) from Empty Palm Bunches for Biopolymer Film Composites Period: 2021, 2022 Amount of Financing: 90.289 million rupiah Personils: Ria M , Chusnul H, Novian WA, Teguh A	
	7	Utilization of Tropical Fruit Waste from Gamping Market for Pectin Production Using Ultrasound-Assisted Extraction Method Period: 2021 Amount of Financing: 15 million rupiah Personils: Ria M	
	8	Optimization of Anaerobic Bioconversion Method of Oil Palm Empty Bunches Into Volatile Fatty Acids for Food Industry Raw Materials Period: 2018; 2019; 2020 Amount of Financing: 154,1 million rupiah Personils: Ria M , Chusnul H, Novian WA, Teguh A	
Industry collaborations over the last 5 years	No	Industry	Year
Patents and proprietary rights	No	Patents and proprietary rights	Year
Important publications over the last 5 years	Selected recent publications		
	1	Affandi, A. R., Millati, R. , & Hidayat, C. (2024). Sodium Metasilicate-MgO Blend Catalyst for Producing Mono and Diacylglycerol from Palm Kernel Oil Using High Shear Compartment Reactor. Polish Journal of Chemical Technology, 26(4): 17-24. https://doi.org/10.2478/pjct-2024-0035 .	
	2	Millati, R. , Wikandari, R., Ariyanto, T., Hasniah, N., Taherzadeh, M. J. (2023). Anaerobic Digestion Biorefinery for Circular Bioeconomy Development. Bioresource Technology Reports, 21(101315). https://doi.org/10.1016/j.biteb.2022.101315 .	



	3	Rohana, N. L. R. T., Millati, R. , Yanti, R., Ardani, A. S., & Hidayat, C. (2023). Synthesis of Mono-and Diacylglycerol Using High Shear Reactor. Philippine Journal of Science, 152(4): 1285-1295. https://doi.org/10.56899/152.04.02 .		
	4	Bulkan, G., Yudhanti, G.T., Sitaresmi, Millati, R. , Wikandari, R., Taherzadeh, M. J. (2022). Inhibitory and Stimulatory Effects of Fruit Bioactive Compounds on Edible Filamentous Fungi: Potential for Innovative Food Applications. Fermentation, 8(6), 270. https://doi.org/10.3390/fermentation8060270 .		
	5	Umiyati, R., Hidayat, C., Millati, R. , & Ariyanto, T. (2022). Incorporation of Sodium Hyaluronate and Nyamplung (<i>Calophyllum inophyllum</i>) Cake Extract to Improve Bioplastic Characteristic. Biotropia, 29(1). https://doi.org/10.11598/btb.2022.29.1.1626 .		
	6	Sar, T., Arifa, V.H., Hilmy, M.R., Ferreira, J.A., Wikandari, R., Millati, R. , & Taherzadeh, M. J. (2022). Organosolv pretreatment of oat husk using oxalic acid as an alternative organic acid and its potential applications in biorefinery. Biomass Conversion and Biorefinery. https://doi.org/10.1007/s13399-022-02408-1 .		
	7	Uwineza, C., Mahboubi, A., Atmowidjojo, A., Ramadhani, A., Wainaina, S., Millati, R. , Wikandari, R., Niklasson, C., & Taherzadeh, M. J. (2021). Cultivation of edible filamentous fungus <i>Aspergillus oryzae</i> on volatile fatty acids derived from anaerobic digestion of food waste and cow manure. Bioresource Technology, 337. https://doi.org/10.1016/j.biortech.2021.125410 .		
	8	Lukitawesa, Eryildiz, B., Mahboubi, A., Millati, R. , & Taherzadeh, M.J. (2021). Semi-continuous production of volatile fatty acids from citrus waste using membrane bioreactors. Innovative Food Science & Emerging Technologies, 67. https://doi.org/10.1016/j.ifset.2020.102545 .		
	9	Millati, R. , Wikandari, R., Ariyanto, T., Putri, R.U., & Taherzadeh, M.J. (2020). Pretreatment Technologies for Anaerobic Digestion of Lignocelluloses and Toxic Feedstocks. Bioresource Technology, 304. https://doi.org/10.1016/j.biortech.2020.122998 .		
	10	Umiyati, R., Millati, R. , Ariyanto, T., & Hidayat, C. (2020). Calophyllum inophyllum extract as a natural enhancer for improving physical properties of bioplastics and natural antimicrobial. Biodiversitas Journal of Biological Diversity, 21(7). https://doi.org/10.13057/biodiv/d210753 .		
Activities in specialist bodies over the last 5 years	No	Organisation	Role	Period
	1	Indonesian Society for Biochemistry and Molecular Biology (PBBMI)	Member	2021-2023
	2	Indonesian Association of Food Technologists (PATPI)	Member	2007-present



	3	International Bioprocessing Association (IBA), International Forum on Industrial	Member	2019-present
	4	Bioprocesses (IFIBiop) Indonesian Society for Lactic Acid Bacteria and Gut Microbiota (ISLAB-GM)	Member	2022-2023