UNIVERSITAS GADJAH MADA
FACULTY OF AGRICULTURAL TECHNOLOGY
DEPARTMENT OF FOOD & AGRICULTURAL PRODUCT TECHNOLOGY

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STAFF HANDBOOK

Name	Dr. Andika Sidar, S.T.P., M.Sc.		
Post	Enzyme Biotechnology in Food and Agricultural Applications		
Academic career	Doctoral Degree (Molecular Biotechnology)	Leiden University, Netherlands	2021-2024
	Master Degree (Biotechnology)	Universitas Gadjah Mada, Indonesia	2011-2013
	Undergraduate Degree (Food and Agricultural Product Technology)	Universitas Gadjah Mada, Indonesia	2005-2009
Employment	Lecturer	Universitas Gadjah Mada	2016-present

Research and development projects over the last 5 years	No	Title of Research and Development Projects	
Industry collaborations over the last 5 years	No	Industry	Year
Patents and proprietary rights	No	Title	Year

Important publications over the last 5 years	Selected recent publications	
	1	**Sidar, A.**, Voshol, G. P., Arentshorst, M., Ram, A. F. J., Vijgenboom, E., & Punt, P. J. (2024). Deciphering domain structures of Aspergillus and Streptomyces GH3-β-Glucosidases: a screening system for enzyme engineering and biotechnological applications. BMC Research Notes, 17, 257. https://doi.org/10.1186/s13104-024-06896-4.
	2	**Sidar, A.**, Voshol, G. P., Masoudi, A., Vijgenboom, E., & Punt, P. J. (2024). Highly variable domain architecture in carbohydrate-active enzymes highlights Streptomyces as promising resource for rice straw bioconversion. Bioresource Technology Reports, 25, 101775. https://doi.org/10.1016/j.biteb.2024.101775.

	3	**Sidar, A.**, Voshol, G. P., Masoudi, A., Vijgenboom, E., & Punt, P. J. (2024). Streptomyces small laccase expressed in *Aspergillus niger* as a new addition for the lignocellulose bioconversion toolbox. Fungal Biology and Biotechnology, 11(13). https://doi.org/10.1186/s40694-024-00181-6.
	4	**Sidar, A.**, Voshol, G. P., Vijgenboom, E., & Punt, P. J. (2023). Novel Design of an α-Amylase with an N-Terminal CBM20 in *Aspergillus niger* Improves Binding and Processing of a Broad Range of Starches. Molecules, 28(13), 5033. https://doi.org/10.3390/molecules28135033.
	5	**Sidar, A.**, Albuquerque, E. D., Voshol, G. P., Ram, A. F. J., Vijgenboom, E., & Punt, P. J. (2020). Carbohydrate Binding Modules: Diversity of Domain Architecture in Amylases and Cellulases From Filamentous Microorganisms. Frontiers in Bioengineering and Biotechnology, 8. https://doi.org/10.3389/fbioe.2020.00871.

Activities in specialist bodies over the last 5 years	No	Organization	Role	Period