

Staff Handbook

Name	Lili Sugiyarto, M.Si.			
Post	<i>Plant Physiology</i>			
Academic career	<i>Teaching staff</i>	<i>Dept. of Biology Education, Universitas Negeri Yogyakarta</i>	<i>2008</i>	
	<i>Doctorate Degree (Biochemistry)</i>	<i>Study program of Biotechnology, Universitas Gadjah Mada</i>	<i>2022-now</i>	
	<i>Master Degree (Biochemistry)</i>	<i>Study program of Biotechnology, Universitas Gadjah Mada</i>	<i>2003-2006</i>	
	<i>Bachelor degree (Biology)</i>	<i>Faculty of Biology, Universitas Gadjah Mada</i>	<i>1997-2002</i>	
Employment	Position	Employer	Period	
	<i>Teaching staff (Biochemistry)</i>	<i>Ministry of Higher Education, Science, and Technology, Republic of Indonesia</i>	<i>2008-now</i>	
Research and development projects over the last 5 years	Year	Topic	Funding	
			Source	Amount (Rp.)
	Research Experiences			
	2022	Resistance Test and Physiological Response of Several Soybean Varieties to Drought and Mycorrhizal Inoculation	FMIPA UNY	30.000.000
	2022	Genetic diversity of the orchid <i>Dendrobium antennatum</i> and its potential as a medicinal raw material/health supplement	UNY	20.000.000
	2023	The Effect of Soil Nutritional Status on Endophytic Bacterial Diversity and Corn Growth (Team members)	FMIPA UNY	18.000.0000
	2023	Biostimulation of Elicitors in In Vitro Culture Medium of <i>Dendrobium antennatum</i> to Increase the Content of Secondary Metabolites as Antioxidant and Antiglycation Agents	FMIPA UNY	50.000.000
	2023	Antimicrobial Activity of <i>Dendrobium antennatum</i> Ethanol Extract Grown in in vitro culture medium with the addition of Chitin and Cellulose Elicitors	FMIPA UNY	40.000.000
	2023	Mechanism of Secondary Metabolite Production Pathways by Chitin and	FMIPA UNY	36.000.000

		Cellulose Elysation in In Vitro Culture of <i>Dendrobium antennatum</i>		
	2024	Effect of Soil Type on the Physical and Biochemical Quality of Local Shallots of Central Java and Yogyakarta as a Functional Food Source	FMIPA UNY	18.000.000
	2024	Effect of Chitin and Cellulose Elisitis on In Vitro Culture on the Genetic Stability of <i>Dendrobium antennatum</i> Orchids Using Random Amplified Polymorphic DNA Mark	Research on the Assignment of Professors and Structural Lecturers 2024 DIPA UNY	45.000.000
	2025	CHARACTERIZATION OF MORPHOLOGY, PHYSIOLOGY AND GENETIC DIVERSITY OF SEVERAL SUPERIOR SOYBEAN VARIETIES (<i>Glycine max</i> (L.))	FMIPA UNY	24.000.000
	2025	Cytotoxic Assay of Methanol Extract of Red Algae <i>Kappaphycus alvarezii</i> on Zebrafish (<i>Danio rerio</i>) Embryo Growth and Its Potential for Treatment	Research on the Assignment of Professors and Structural Lecturers	50.000.000
	2025	Activity and Mechanism Test of Anticancer Compounds of Methanol Extract of Red Algae <i>Kappaphycus alvarezii</i> against MCF-7 and MDA-MB-231 Breast Cancer Cells	Fundamental Research – Regular. BIMA	37.710.000,00
Community Services Experiences				
	2020	On-line Learning System as a Creative, Effective and Interesting Interactive Learning Method for MGMP Science Biology Teachers of Junior High Schools in Bantul Regency	FMIPA UNY	4.500.000
	2021	Enrichment and Guided LKPD Creation on Biotechnology Material for Biology Science Teachers at Muhammadiyah Middle Schools in Sleman Regency	FMIPA UNY	4.500.000
	2023	Workshop on Introduction to Tissue Culture Techniques for MGMMP Science Teachers of Middle Schools in Sleman Regency	FMIPA UNY	6.000.000

	2024	Workshop on Introduction to Tissue Culture Techniques for Senior High School Biology MGMP Teachers in Bantul Regency	FMIPA UNY	6.000.000
	2025	Introduction workshop to basic tissue culture techniques for high school biology mgmp teachers in gunung kidul district	PkM Assignment of Professors and Structural Lecturers 2024 DIPA UNY	8.000.000
	2025	Introduction to Orchids and Indonesian Culture through Batik activities	PKM Assignment of Professors and Structural Lecturers University (Drpm))	30.000.000
Industry collaborations over the last 5 years	<i>Project title : -</i> <i>Partners : -</i>			
Patents and proprietary rights	Title KI	Year of Acquisition	Type of IP	Number
Important publications over the last 5 years	International Conventions/Workshops/Seminars			
	Publications in International Journals			
	Publications in National Journals			
	Optimization of Dendrobium nobile Axillary Shoot Induction Through Combination of 2-iP and 2,4-D In Vitro		2023	DOI : https://doi.org/10.55180/agi.v7i1.613
	Antidiabetic Molecular Mechanisms of Active Compounds from Several Orchids Journal of Science Education Research, 9(8), 373–386		2023	https://doi.org/10.29303/jppipa.v9i8.3940
	Anatomical and Physiological Response of Pegagan (Centella asiaticaL.Urban)at Different Altitudes in Kulon Progo		2023	DOI: https://doi.org/10.21831/jsd.v12i2.60

	Journal of Progressive Education, Vol. 13, No. 3, pp. 1121-1134, 2023		735.v13.i3.2 02317
Activities in specialist bodies over the last 5 years	<i>Organisation</i>	<i>Role</i>	<i>Period</i>
	<i>Pencinta Anggrek Indonesia</i>	<i>Partnerships & Fundraising Division</i>	<i>2025-2030</i>
	<i>Perhimpunan Biokimia dan Biologi Molekuler Indonesia</i>	<i>Mmeber</i>	<i>2025</i>
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