

## Staff Handbook

Name	Dr. Evy Yulianti, S.Si., M.Sc			
Post	Assistant Professor in Biochemistry Biochemistry			
Academic career	Teaching staff	Dept. of Biology Education, 2005 Universitas Negeri Yogyakarta		
	Doctorate Degree (Biochemistry)	Faculty of Medicine, Public Health, and Nursing, 2018-2021 Universitas Gadjah Mada		
	Master Degree (Biochemistry)	Faculty of Medicine, Public Health, and Nursing, 2006-2009 Universitas Gadjah Mada		
	Bachelor degree (Biology)	Fac. Biology, Universitas Gadjah Mada 1999-2004		
Employment	Position	Employer	Period	
	Teaching staff (Biochemistry)	Ministry of Higher Education, Science, and Technology, Republic of Indonesia	2005-now	
Research and development projects over the last 5 years	Year	Topic	Funding	
			Source	Ammount (Rp.)
	Research Experiences			
	2022	Determination of Biomarkers of Progressivity of Type II Diabetes Mellitus as a Risk Factor for Covid-19 Severity	Ministry of Education and Culture, Research, Technology and Higher Education	210.000.000
	2022	Genetic diversity of the Dendrobium antennatum orchid and its potential as a raw material for medicines/health supplements	FMIPA UNY	20.000.000
	2022	Development of Micro-Centrifuge Prototypes for RT-Based SARS-CoV-2 Detection	Research and Innovation Institute (LRI)  University of Muhammad	20.000.000

		iyah Yogyakarta	
2023	Genome sequencing of intact chloroplasts of six new species from the Botanical Garden Collection "Eka Karya" Bali Theme 2. Whole Genome Sequencing and Partial DNA/Protein Sequence Specimens/Culture of Nusantara Biodiversity	BRIN	171.949.103
2023	Effectiveness of Black Onion as an Inhibitor of Progressivity and Booster of Immunity in Diabetic Mice Infected with <i>Staphylococcus aureus</i>	Ministry of Education and Culture, Research, Technology and Higher Education	137.600.000
2023	Production of Nanoparticles of Beluntas Leaf ( <i>Pluchea indica</i> ) and Test of Its Activity as an Antimicrobial	FMIPA UNY	36.000.000
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 Cellulose Elysation in In Vitro Culture of <i>Dendrobium antennatum</i>	FMIPA UNY	36.000.000
2023	The Effect of Planting Media on Endophytic Bacterial Diversity and Corn Growth	FMIPA UNY	20.000.000
2023	Development of Webside-Based Interactive Multimedia on Cell Materials to Improve Critical Thinking Skills and Learning Independence of Grade XI High School Students	FMIPA UNY	20.000.000
2023	Biology Teacher's Knowledge and Experience in Utilizing Local Potential/Wisdom for High School Biology Learning	FMIPA UNY	20.000.000

2023	Development of Mesenchymal Stem Cells (MSCs) Secretomes as Liver Fibrosis Therapy	UNS	40.000.000
2023	Synthesis of Silver-Based Nanoparticles by Vapor Phase Growth Method	Research and Innovation Institute (LRI)  University of Muhammadiyah Yogyakarta	15,000,000
2024	Untargeted Metabolomic Analysis of Indonesian Shallot Landraces as Promising Source of Functional Food	International Cooperation Research (Outside Southeast Asia) DIPA UNY	75.000.000
2024	Effect of Chitin and Cellulose Elisitis on In Vitro Culture on the Genetic Stability of Dendrobium antennatum Orchids Using Random Amplified Polymorphic DNA Mark	Research on the Assignment of Professors and Structural Lecturers 2024 DIPA UNY	45.000.000
2024	DNA Barcoding of Hybrid Cattleya Orchid based on Chloroplast DNA Marker	Research Group	24.000.000
2025	Analysis of the Experience and Readiness of High School Biology Teachers in Pekanbaru in Implementing Learning with <i>a Deep Learning Approach</i>	Institutional Research FMIPA Development Department	30.000.000,00
2025	Activity and Mechanism Test of Anticancer Compounds of Methanol Extract of Red Algae Kappaphycus alvarezii against MCF-7 and MDA-MB-231 Breast Cancer Cells	Fundamental Research – Regular. BIMA	37.710.000,00
2025	Cytotoxic Assay of Methanol Extract of Red Algae Kappaphycus alvarezii	Research on the	50.000.000,00

	on Zebrafish ( <i>Danio rerio</i> ) Embryo Growth and Its Potential for Treatment	Assignment of Professors and Structural Lecturers	
2025	Morphophysiological and Metabolomic Analyses of Most Prospective Indonesian Shallot Landraces as Functional Foods Cultivated Under Drought Stress	Research on International Cooperation Outside Southeast Asia. FMIPA	80.000.000,00
	Identification of Molecular Markers of <i>Cattleya</i> Orchid Flower Color Properties	Research Group	24.000.000,00
<b>Community Services Experiences</b>			
2022	Interactive Education for Couples of Childbearing Age in Keputran Village, Kemalang District, Klaten Regency to Increase Reproductive Health Knowledge and Family Planning Awareness	FMIPA UNY	6.000.000
2022	Empowerment of Health Cadres in an Effort to Improve Reproductive Health Literacy and Nutritional Awareness of the Communities of Sidorejo Village, Kemalang, Klaten to Prevent Early Marriage and Stunting Incidence	FMIPA UNY	12.500.000
2023	Assistance in the Preparation of Science Thematic Project-Based Learning Teaching Modules for the Independent Curriculum for Biology Teachers in Ma Yogyakarta	FMIPA UNY	6.000.000
2023	Introduction of orchid cultivation as an alternative to farming business of KWT Rejo Mulyo	FMIPA UNY	
2024	Improving Understanding of Cell and Molecular Biology Materials for MGMP Biology Teachers Through Simple DNA Isolation Practicum	PkM Assignment of Professors and Structural Lecturers	25.000.000

			2024 DIPA UNY		
	2024	Sanctioning the Recognition of Past Learning (RPL) Program for the Indonesian Diaspora in Yamaguchi Prefecture		PkM International Cooperation DIPA UNY	30.000.000
	2025	Empowerment of DIY orchid lovers in the development of Cattleya orchid variants		Pkm Lecturers Activities Outside the Campus (DLK) FMIPA	8.000.000,00
	2025	Workshop on Discussion of Biology Olympiad Questions on Biochemistry and Molecular Biology Materials for MGMP Biology Teachers in MGMP Biology Teachers in Pekanbaru City, Riau Province		Department -Based Institutional PKM FMIPA	12.000.000,00
	2025	Introduction to Orchids and Indonesian Culture through Batik activities		PKM Assignment of Professors and Structural Lecturers University (Drpm)	30.000.000,00
	2025	Empowerment of the Wijaya Kusuma Farmer Women's Group (KWT) in Orchid Cultivation		Community Partnership Empowerment (PKM) University (Drpm)	43.671.000,00
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
	Basic Microbiology		2023	Copyright	000453851
	Basic Biochemistry		2023	Copyright	000461853

Genetics and Reproductive Biology	2023	Copyright	000468514
Nutrition Health and Disease	2023	Copyright	000468627
Basic Pharmaceutical Chemistry	2023	Copyright	000490292
Introduction to Biotechnology	2023	Copyright	000490294
Basic Immunology	2023	Copyright	000496908
Introduction to Biomolecules	2023	Copyright	000499402
Genetic Engineering Books	2024	Copyright	000763746
Drug Interactions and Side Effects	2024	Copyright	000650716
Nutrition and Health of Children Under Five	2024	Copyright	000640187
Coastal and Archipelago Public Health	2024	Copyright	000632450
Cattleya orchid acclimatization process with hanging technique	2024	Copyright	
Genetically		Copyright	
Medicinal Plant Culture	2024	Copyright	000758917
Antimicrobial Biotechnology	2024	Copyright	
Composition of Antimicrobial Herbal Soap with Leaf Additives (Pluchea indica (L.) Less.)	2024	Simple patent	IDS000009853
E-Magazine Learning Media Cell Structure and Function	2024	Copyright	000603265
Energy and Macronutrient Metabolism	2024	Copyright	000899191
Molecular Nutrition and Genetics	2025	Copyright	000861050
Video DNA Extraction Method	2025	Copyright	000847215

Important publications over the last 5 years	International Conventions/Workshops/Seminars		
	Design and performance evaluation of alternative home care systems for detecting SARS CoV-2 using the RT-LAMP method <i>AIP Conf. Proc.</i> 3124, 060005	2024	<a href="https://doi.org/10.1063/5.0232199">https://doi.org/10.1063/5.0232199</a>
	Community Empowerment through Enhancement of Pule Payung Tourist Spot Potential in Soropati, Hargotirto, Kokap, Kulon Progo, Special Region of Yogyakarta <i>Proceedings International Conference of Community Service</i> , Vol. 1 No. 2 (): Society Empowerment Through Digital and Economic Transformation	2023	<a href="https://doi.org/10.18196/iccs.v1i2.185">https://doi.org/10.18196/iccs.v1i2.185</a>
	A preliminary study on the luminescence of carbon nanodots formation prepared from thermally treated biologically active compounds via simple extraction method. <i>AIP Conference Proceedings</i> 2556, 020006	2023	<a href="https://doi.org/10.1063/5.0114426">https://doi.org/10.1063/5.0114426</a>
	Publications in International Journals		
	The effect of Kappaphycus alvarezii fraction on plasma glucose, Advanced Glycation End-products formation, and renal RAGE gene expression <i>Heliyon</i> , 2021, 7(1), e05978	2021	<a href="https://doi.org/10.1016/j.heliyon.2021.e05978">https://doi.org/10.1016/j.heliyon.2021.e05978</a>
	Preparation and Antimicrobial Activity Analysis of Organic Soap Bar Containing Gnetum gnemon Peel Extract <i>Molecules</i> , 2021, 16 (3)	2021	<a href="http://dx.doi.org/10.20884/1.jm.2021.16.3.800">http://dx.doi.org/10.20884/1.jm.2021.16.3.800</a>
	The effect of Kappaphycus alvarezii active fraction on oxidative stress and inflammation in streptozotocin and nicotinamide-induced diabetic rats <i>BMC Complementary Medicine and Therapies</i> , 2022. 22(1).	2022	<a href="https://doi.org/10.1186/s12906-021-03496-8">https://doi.org/10.1186/s12906-021-03496-8</a>
	Antimicrobial activity of Chitosan-silver nanoparticles made from jewelry industry silver waste <i>Archives of Biological Sciences</i> 2024 Volume 76, Issue 4, Pages: 445-453	2024	<a href="https://doi.org/10.2298/ABS240904034P">https://doi.org/10.2298/ABS240904034P</a>
	The Complete Chloroplast Genome of <i>Medinilla tapete-magicum</i> (Melastomataceae) from Sulawesi, Indonesia <i>Journal of Tropical Biodiversity and Biotechnology</i> This link is disabled., 2024, 9(2), jtbb87932 ISSN 25409573	2024	DOI 10.22146/jtbb.87932
	Publications in National Journals		
	Physical exercise as cytokine modulator in inflammatory immune response: a systematic review <i>Sports Journal</i> 2022, 10(2).	2022	<a href="http://dx.doi.org/10.21831/jk.v10i2.51677">http://dx.doi.org/10.21831/jk.v10i2.51677</a>
	Antidiabetic Molecular Mechanisms of Active Compounds from Several Orchids <i>Journal of Science Education Research</i> , 9(8), 373–386	2023	<a href="https://doi.org/10.29303/">https://doi.org/10.29303/</a>

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	Enhancing Student Higher Order Thinking Skills through Problem-Based Learning (PBL) Media Integration Journal of Progressive Education, Vol. 13, No. 3, pp. 1121-1134, 2023	2023	DOI: 10.23960/jppipa.v13.i3.202317
	The Development of PBL-Based Respiratory App Learning Media on Human Respiratory System Material to Improve Critical Thinking Skills of Grade 11th Students Journal of Science Education Research, 9(8), 6166–6173.	2023	<a href="https://doi.org/10.29303/jppipa.v9i8.3587">https://doi.org/10.29303/jppipa.v9i8.3587</a>
	Development of Multiple Intelligence Based Interactive Ebook to Improve Critical Thinking Ability and Cognitive Learning Outcomes on an Excretory System Journal of Science Education Research, 9(6), 4265–4272.	2023	<a href="https://doi.org/10.29303/jppipa.v9i6.3286">https://doi.org/10.29303/jppipa.v9i6.3286</a>
	Development of Flipped Classroom Based Interactive Multimedia on Biodiversity Concept to Increase Students' Learning Motivation and Critical Thinking Journal of Indonesian Science Education 12(3), p.614-627 (2024) e-ISSN: 2615-840X p-ISSN: 2338-4379 (Indonesian Journal of Science Education)	2024	<a href="https://dx.doi.org/10.24815/jpsi.v12i3.38487">https://dx.doi.org/10.24815/jpsi.v12i3.38487</a>
	Development of Website-Based Interactive Multimedia on Cell Material to Improve Critical Thinking Skills and Learning Independence of Class XI High School Students Indonesian Journal of Science Education 12(3), p.705-725, (2024) (Indonesian Journal of Science Education)	2024	<a href="https://doi.org/10.24815/jpsi.v12i3.38697">https://doi.org/10.24815/jpsi.v12i3.38697</a>
	Analysis of high school students' critical thinking ability in Bantul Regency on endocrine system material JPBI (Indonesian Journal of Biology Education), Vol 10 No 3 (2024)	2024	<a href="https://doi.org/10.22219/jpbi.v10i3.35854">https://doi.org/10.22219/jpbi.v10i3.35854</a>
	The Effectiveness of Electronic Student Worksheet with Problem-Based Learning (PBL) to Increasing Learning Interest <i>Journal of Science Education Research</i> , 11(1), 1033–1038.	2025	<a href="https://doi.org/10.29303/jppipa.v11i1.9307">https://doi.org/10.29303/jppipa.v11i1.9307</a>
Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	Pencinta Anggrek Indonesia	Partnerships & Fundraising Division	2025-2030



	<i>Perhimpunan Biokimia dan Biologi Molekuler Indonesia</i>	<i>Mmeber</i>	<i>2025</i>
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