

Staff Handbook

Name	Nur Aeni Ariyanti, MP., M.Agr., Ph.D.		
Post	Associate Professor Plant Physiology		
Academic career	Teaching staff	Dept. of Biology Education, Universitas Negeri Yogyakarta	2008
	Doctorate Degree (Bioproduction Science)	Tottori University	2014-2017
	Master Degree (Agronomy, Bioresources Science)	Universitas Gadjah Mada Yamaguchi University	2005-2007 2012-2014
	Bachelor degree (Horticulture)	Institut Pertanian Bogor	2000-2004
Employment	Position Teaching staff (Plant Physiology, Agroforestry, Tropical Biology)	Employer Ministry of Higher Education, Science, and Technology, Republic of Indonesia	Period 2008-now
Research and development projects over the last 5 years	Year	Topic	Funding Source Ammount (Rp.)
	Research Experiences		
	2021	Pengembangan Produk Tekstil Multifungsi melalui Aplikasi Nanopartikel Logam yang Disintesis Menggunakan Alga	DIKTI 230.000.000
	2021	Eksplorasi Bakteri Endofit dari Tanaman Cabai Rawit sebagai Agen Pengendali Hayati Penyakit Antraknosa Secara In-Vitro untuk Mengurangi Penggunaan Fungisida	Universitas Negeri Yogyakarta 20.000.000
	2022	Pengembangan Produk Tekstil Multifungsi melalui Aplikasi Nanopartikel Logam yang Disintesis Menggunakan Alga	DIKTI 213.000.000
	2022	Karakterisasi Morfologi, Fisiologi dan Anatomi Daun Untuk Optimasi Pengembangan Habitat Budidaya Sirih Hitam (<i>Piper betle</i> L. var <i>Nigra</i>) sebagai Tanaman Obat Asli Indonesia.	Universitas Negeri Yogyakarta 20.000.000
	2022	Studi Potensi Nanopartikel Perak Ter-Capping Polietilen Glikol/Kitosan/L-Metionin sebagai Sensor Bakteri <i>Escherichia coli</i> Berbasis	Universitas Negeri Yogyakarta 15.000.000

	<i>Kolorimetripalmivora as Early Detecting Method Approach.</i>		
2023	<i>Asesmen Kualitas Pengelolaan Perkebunan Kakao di Dusun Doga sebagai Dasar Pengembangan Pusat Produksi Coklat Nglanggeran, Patuk, Gunung Kidul.</i>	<i>Universitas Negeri Yogyakarta</i>	<i>50.000.000</i>
2023	<i>Discrimination of Volatile Organic Compounds with Different Invasive Severities and Soil Profiles in Durian Infected with Phytophthora palmivora.</i>	<i>Universitas Negeri Yogyakarta</i>	<i>50.000.000</i>
2024	<i>Untargeted Metabolomic Analysis of Indonesian Shallot Landraces as Promising Source of Functional Food</i>	<i>Universitas Negeri Yogyakarta</i>	<i>75.000.000</i>
2025	<i>Studi Komparatif Kesiapan Implementasi Pembelajaran STEM Calon Guru di Indonesia, Malaysia, dan Thailand</i>	<i>Universitas Negeri Yogyakarta</i>	<i>55.000.000</i>
2025	<i>Uji sitotoksik ekstrak methanol alga merah Kappaphycus alvarezii terhadap pertumbuhan embrio zebrafish (Danio rerio) dan Potensinya untuk Pengobatan</i>	<i>Universitas Negeri Yogyakarta</i>	<i>50.000.000</i>
2025	<i>Morphophysiological and Metabolomic Analyses of Most Prospective Indonesian Shallot Landraces as Functional Foods Cultivated Under Drought Stress.</i>	<i>National Research and Innovation Agency</i>	<i>80.000.000</i>
Community Services Experiences			
2022	<i>Peningkatan Kemandirian dan Potensi Ekonomi Madrasah Melalui Program Galang Madrasah.</i>	<i>Universitas Negeri Yogyakarta</i>	<i>12.500.000</i>
2023	<i>Workshop STEM-Eco Printing untuk Mengembangkan Jiwa Entrepreneurship Siswa Sekolah Menengah Kebangsaan Tengku Muhammad, Pahang, Malaysia</i>	<i>Universitas Negeri Yogyakarta</i> <i>International Collaboration with IIUM</i>	<i>30.000.000</i>
2024	<i>Desiminasi Kekayaan Herbal dan Terapi Tradisional Indonesia ke Thailand dengan Pendekatan Lensa MIPA dan Keolahragaan</i>	<i>Universitas Negeri Yogyakarta</i> <i>International Collaboration with PPI Yamaguchi</i>	<i>30.000.000</i>
2024	<i>Pemberdayaan Kelompok Wanita Tani Tayuban Melalui Diversifikasi Olahan Bahan dan Limbah Kelapa Berbasis Local-Resources sebagai Upaya Membangun Ekonomi Sirkular</i>	<i>Universitas Negeri Yogyakarta</i>	<i>25.000.000</i>

	<table><tr><td>2024</td><td>Sanctioning Program Rekognisi Pembelajaran Lampau (RPL) untuk Diaspora Indonesia di Prefecture Yamaguchi</td><td>Universitas Negeri Yogyakarta International Collaboration with PPI Yamaguchi</td><td>30.000.000</td></tr><tr><td>2025</td><td>Workshop Kepenulisan: Merangkai Kisah Inspiratif Diaspora Indonesia di Perth dalam Perspektif Sosial dan Kultural</td><td>Universitas Negeri Yogyakarta International Collaboration with AIPSSA</td><td>35.000.000</td></tr></table>	2024	Sanctioning Program Rekognisi Pembelajaran Lampau (RPL) untuk Diaspora Indonesia di Prefecture Yamaguchi	Universitas Negeri Yogyakarta International Collaboration with PPI Yamaguchi	30.000.000	2025	Workshop Kepenulisan: Merangkai Kisah Inspiratif Diaspora Indonesia di Perth dalam Perspektif Sosial dan Kultural	Universitas Negeri Yogyakarta International Collaboration with AIPSSA	35.000.000
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2025	Workshop Kepenulisan: Merangkai Kisah Inspiratif Diaspora Indonesia di Perth dalam Perspektif Sosial dan Kultural	Universitas Negeri Yogyakarta International Collaboration with AIPSSA	35.000.000						
Industry collaborations over the last 5 years	Project title : - Partners : -								
	Publications in International Journals								
	Metabolome-Based Discrimination Analysis of Shallot Landraces and Bulb Onion Cultivars Associated with Differences in the Amino Acid and Flavonoid Profiles. https://doi.org/10.3390/molecules25225300	2024	Molecules, 2020, 25, 22, 1420-3049						
	Gas Chromatography-Mass Spectrometry Analysis of Compounds Emitted by Pepper Yellow Leaf Curl Virus-Infected Chili Plants: A Preliminary Study. https://doi.org/10.3390/separations8090136	2021	Separations, 2021, 8, 9, 2297-8739						
	Targeted Metabolome Profiling of Indonesian Shallots and Japanese Long-Day/Short-Day Bulb Onions. https://doi.org/110.3390/metabo12121260	2022	Metabolites, 2022, 12,12, 1260						
	Anatomical, morphological and physiological leaf characters of black betel (Piper betle L. var. nigra) in varying natural and manmade habitats. https://doi.org/10.13057/biodiv/d240618	2023	Biodiversitas, 2023, 24(6), pp. 3236–3244						
	Modification of Spandex Fabric with the Addition of Silver Nanoparticles and MTMS. https://doi.org/10.48317/IMIST.PRSM/morjchem-v12i2.44199	2024	Moroccan Journal of Chemistry, 2024, 12(2),pp. 734–748						
	Publications in National Journals								
	Saponins Accumulation and Antimicrobial Activities on Shallot (Allium cepa L.) from Marginal Land. https://doi.org/10.15575/12524	2021	Jurnal Agro, 2021, 8, 2, 2407-7933						
	Students’ Problem Solving Skill on the Cosystem Materials Throgh Somatic, Auditory, Visual and Intellectual Model. https://doi.org/10.24815/jpsi.v11i2.28546	2023	Jurnal Pendidikan Sains Indonesia (Indonesian Journal of Science Education), 11(2), 333-344.						

	Analysis of Student Problem-Solving Skills in XI Class Biology Learning at State Senior High Schools Sleman Regency. https://doi.org/10.29303/jppipa.v10i5.5466	2024	<i>Jurnal Penelitian Pendidikan IPA, 10(5), 2024, 2465–2472</i>
	Development of a flipped classroom-based emodule to improve problem-solving abilities and learning independence of high school students. https://doi.org/10.22219/jpbi.v10i2.32183	2024	<i>Jurnal Pendidikan Biologi Indonesia, Vol 10 Issue 2, 2024, 453-466</i>
	Development Augmented Reality as a Learning Media for Sensory System Material for Class XI in Biology Learning. https://doi.org/10.24815/jpsi.v13i1.40757	2025	<i>Jurnal Pendidikan Sains Indonesia, 13(1), 68-79.</i>
Activities in specialist bodies over the last 5 years	<i>Organisation</i>	<i>Role</i>	<i>Period</i>
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