

Staff Handbook

Please fill out and submit one table per person.

Name	Ratnawati, M.Sc.																								
Post	Plant Anatomy																								
Academic career	Teaching staff	Dept. of Biology Education, Universitas Negeri Yogyakarta	1986-now																						
	Master Degree	Biology Department, Universitas Gadjah Mada	2002																						
	Undergraduate degree (Biology)	Department of Biology Education, Universitas Negeri Yogyakarta	1979-1984																						
Employment	Position	Employer	Period																						
	Teaching staff	Ministry of higher Education, Science, and Technology, Republic of Indonesia	1986-now																						
Research and development projects over the last 5 years	<table border="1"> <thead> <tr> <th rowspan="2">Year</th><th rowspan="2">Topic</th><th colspan="2">Funding</th></tr> <tr> <th>Source</th><th>Amount (Rp.)</th></tr> </thead> <tbody> <tr> <td colspan="4">Research Experiences</td></tr> <tr> <td>2020</td><td>Struktur Perkembangan dan Profil Amilum Umbi sebagai Dasar Diversifikasi Sumber Karbohidrat. Development Structure and Profile of Tuber Starch as a Basis for Diversification of Carbohydrate Sources.</td><td>DIPA MIPA</td><td>24.000.000</td></tr> <tr> <td>2021</td><td>Perbanyakan tanaman anggrek melalui induksi tunas aksiler secara in vitro dan analisis keseragaman genetiknya Propagation of orchid plants through axillary shoot induction in vitro and analysis of their genetic uniformity</td><td>DIPA UNY</td><td></td></tr> <tr> <td>2021</td><td>Perbedaan Keseimbangan Lingkungan Dilihat dari</td><td>DIPA MIPA</td><td>24.000.000</td></tr> </tbody> </table>			Year	Topic	Funding		Source	Amount (Rp.)	Research Experiences				2020	Struktur Perkembangan dan Profil Amilum Umbi sebagai Dasar Diversifikasi Sumber Karbohidrat. Development Structure and Profile of Tuber Starch as a Basis for Diversification of Carbohydrate Sources.	DIPA MIPA	24.000.000	2021	Perbanyakan tanaman anggrek melalui induksi tunas aksiler secara in vitro dan analisis keseragaman genetiknya Propagation of orchid plants through axillary shoot induction in vitro and analysis of their genetic uniformity	DIPA UNY		2021	Perbedaan Keseimbangan Lingkungan Dilihat dari	DIPA MIPA	24.000.000
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		<i>Produktivitas Primer dan Indeks Kualitas Perairan Plankton di Dua Embung</i> Differences in Environmental Balance Seen from Primary Productivity and Plankton Water Quality Index in Two Reservoirs		
	2022	<i>Perbandingan Keseimbangan Lingkungan Plankton pada Awal Musim Kemarau dan Awal Musim Penghujan di Dua Embung</i> Comparison of Plankton Environmental Balance at the Beginning of the Dry Season and the Beginning of the Rainy Season in Two Reservoirs	DIPA MIPA	24.000.000
	2023	<i>Karakterisasi Serat pada Beberapa Tumbuhan Angiospermae</i> Characterization of Fiber in Several Angiosperm Plants	DIPA MIPA	24.000.000
	2023	<i>Perkembangan Struktur Morfologis dan Anatomis Daun Ketela Pohon (Manihot utilissima Pohl.) pada Intensitas Cahaya yang Berbeda</i> Development of Morphological and Anatomical Structure of Cassava Leaves (Manihot utilissima Pohl.) at Different Light Intensities	DIPA MIPA	15.000.000
	2024	<i>Karakterisasi dan Perkembangan Serat pada Beberapa Angiospermae</i> Characterization and Development of Fibers in Several Angiosperms	DIPA MIPA	24.000.000
	2024	<i>Kajian Potensi Kayu Bajakah Kalawit (Uncaria gambir Roxb) sebagai Antiangiogenic</i> Study of the Potential of Bajakah Kalawit Wood (Uncaria gambir Roxb) as an Antiangiogenic	DIPA MIPA	

	2025	<i>Karakteristik Morfoanatomis dan Mekanis Serat Beberapa Varietas Anggur (Vitis vinifera)</i> Morphoanatomical and Mechanical Characteristics of Fibers of Several Grape Varieties (Vitis vinifera)	DIPA MIPA	24.000.000
	Community Services Experiences			
	2022	<i>Pengayaan Materi dan Pengembangan Kegiatan Praktikum Keanekaragaman Tumbuhan di SMA</i> Enrichment of Material and Development of Plant Diversity Practical Activities in High School	DIPA MIPA	8.000.000
	2023	<i>Peningkatan Kompetensi Bidang Biologi Tumbuhan bagi Guru Madrasah Ibtidaiyah Negeri di Daerah Istimewa Yogyakarta sebagai Persiapan Olimpiade Sains Nasional Tingkat SD/MI</i> Improving Plant Biology Competence for State Elementary School Teachers in the Special Region of Yogyakarta as Preparation for the National Science Olympiad at Elementary School/Islamic Elementary School Level	DIPA MIPA	8.000.000
	2024	<i>Pengayaan Materi dan Pengembangan Kegiatan Praktikum IPA Biologi untuk Meningkatkan Kompetensi Guru IPA MIN di Daerah Istimewa Yogyakarta</i> Enrichment of Material and Development of Biology Science Practical Activities to Improve the Competence of Science Teachers at MIN in the Special Region of Yogyakarta	DIPA MIPA	8.000.000
	2025	<i>Pelatihan Penggunaan Aplikasi Identifikasi Tumbuhan (Google Lens) dan Pengawetan Tumbuhan untuk Pembelajaran Keanekaragaman</i>	DIPA MIPA	8.000.000

	Tumbuhan di MI Kabupaten Sleman Training on the Use of Plant Identification Applications (Google Lens) and Plant Preservation for Learning about Plant Diversity at MI Sleman Regency																										
Industry collaborations over the last 5 years	-																										
Patents and proprietary rights	-																										
Important publications over the last 5 years	<table><tr><td>Optimasi Media Kultur In Vitro Anggrek Berbasis Pupuk dengan Penambahan Air Kelapa dan Vitamin B1</td><td>2020</td><td>Jurnal Penelitian Saintek, Vol. 25, Nomor 2, 2020</td></tr><tr><td>Optimization of Fertilizer-Based Orchid In Vitro Culture Media with the Addition of Coconut Water and Vitamin B1</td><td></td><td></td></tr><tr><td>Pengayaan Materi dan Pengembangan Kegiatan Praktikum Keanekaragaman Tumbuhan di SMA</td><td>2023</td><td>Jurnal Pengabdian Masyarakat MIPA dan Pendidikan MIPA, Vol. 7, No. 2, https://doi.org/10.21831/jpmmp.v7i2.56696</td></tr><tr><td>Enrichment of Material and Development of Plant Diversity Practical Activities in High School</td><td></td><td></td></tr><tr><td>Perbandingan Spasio-Temporal Keseimbangan Lingkungan Plankton di Embung Daerah Bantul Yogyakarta</td><td>2024</td><td>Berita Biologi, Vol. 23, No. 1, https://doi.org/10.55981/beritabiologi.2024.390</td></tr><tr><td>Spatio-Temporal Comparison of Plankton Environmental Balance in Reservoirs in Bantul Regency, Yogyakarta</td><td></td><td></td></tr><tr><td>Website development on herbal plant diversity as media in Kurikulum Merdeka</td><td>2024</td><td>JPBI (Jurnal Pendidikan Biologi Indonesia), Vol. 10 Issue 1, March 2024, 329-338, ISSN: 2442-3750e-ISSN: 2537-6204</td></tr><tr><td>Characterization of Bast Fibers in Selected Dicotyledonous Plants:</td><td>2025</td><td>Berkala PENELITIAN HAYATI, Vol. 31, No. 1, DOI</td></tr></table>			Optimasi Media Kultur In Vitro Anggrek Berbasis Pupuk dengan Penambahan Air Kelapa dan Vitamin B1	2020	Jurnal Penelitian Saintek, Vol. 25, Nomor 2, 2020	Optimization of Fertilizer-Based Orchid In Vitro Culture Media with the Addition of Coconut Water and Vitamin B1			Pengayaan Materi dan Pengembangan Kegiatan Praktikum Keanekaragaman Tumbuhan di SMA	2023	Jurnal Pengabdian Masyarakat MIPA dan Pendidikan MIPA, Vol. 7, No. 2, https://doi.org/10.21831/jpmmp.v7i2.56696	Enrichment of Material and Development of Plant Diversity Practical Activities in High School			Perbandingan Spasio-Temporal Keseimbangan Lingkungan Plankton di Embung Daerah Bantul Yogyakarta	2024	Berita Biologi, Vol. 23, No. 1, https://doi.org/10.55981/beritabiologi.2024.390	Spatio-Temporal Comparison of Plankton Environmental Balance in Reservoirs in Bantul Regency, Yogyakarta			Website development on herbal plant diversity as media in Kurikulum Merdeka	2024	JPBI (Jurnal Pendidikan Biologi Indonesia), Vol. 10 Issue 1, March 2024, 329-338, ISSN: 2442-3750e-ISSN: 2537-6204	Characterization of Bast Fibers in Selected Dicotyledonous Plants:	2025	Berkala PENELITIAN HAYATI, Vol. 31, No. 1, DOI
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	<i>Hibiscus rosa-sinensis, Ficus septica, and Phaleria macrocarpa</i>	10.23869/bphjbr.31.1.20257
Activities in specialist bodies over the last 5 years	-	