

Staff Handbook

Name	<i>Paramita Cahyaningrum Kuswandi, S.P., M.Sc., Ph.D.</i>		
Post	<i>Assistant Professor in Genetics</i> <i>Genetics</i>		
Academic career	<i>Teaching staff</i>	<i>Dept. of Biology Education, Universitas Negeri Yogyakarta</i>	<i>2010</i>
	<i>Doctorate Degree (Plant and crop science)</i>	<i>School of Biosciences, University of Nottingham, U.K.</i>	<i>2015-2019</i>
	<i>Master Degree (Plant breeding)</i>	<i>Fac. Agriculture, Universitas Gadjah Mada</i>	<i>2005-2009</i>
	<i>Bachelor degree (Plant breeding)</i>	<i>Fac. Agriculture, Universitas Gadjah Mada</i>	<i>1998-2002</i>
Employment	Position <i>Teaching staff (Genetics)</i>	Employer <i>Ministry of Higher Education, Science, and Technology, Republic of Indonesia</i>	Period <i>2010-now</i>
Research and development projects over the last 5 years	Year	Topic	Funding Source Amount (Rp.)
	Research Experiences		
	2020	<i>Nutritional Intake and Activity of Young Women, Relationship with Obesity and Its Inheritance Patterns.</i>	<i>Universitas Negeri Yogyakarta</i> <i>18.000.000</i>
	2021	<i>Effect of Dietary Variation on Several Generations of Fruit Flies (<i>Drosophila Melanogaster</i>) as Obesity Experimental Model Organisms.</i>	<i>Universitas Negeri Yogyakarta</i> <i>18.000.000</i>
	2021	<i>Exploitation of Endophytic Bacteria from Cayenne Pepper Plants as a Biocontrol Agent for Anthracnose Disease in Vitro to Reduce the Use of Fungicides.</i>	<i>Universitas Negeri Yogyakarta</i> <i>20.000.000</i>
	2022	<i>Potential of <i>Drosophila Melanogaster</i> as a Model Organism for Epigenetic Metabolic Syndrome.</i>	<i>Universitas Negeri Yogyakarta</i> <i>20.000.000</i>
	2022	<i>Volatile Organic Compound Analysis of Durian Infected by <i>Phytophthora palmivora</i> as Early Detecting Method Approach.</i>	<i>Universitas Negeri Yogyakarta</i> <i>50.000.000</i>
	2022	<i>Characterization of Leaf Morphology, Physiology and Anatomy for Optimizing the Development of Black Betel Cultivation Habitat (<i>Piper Betle L.</i></i>	<i>Universitas Negeri Yogyakarta</i> <i>20.000.000</i>

		<i>Var Nigra) as a Medicinal Plant Native to Indonesia.</i>		
	2023	<i>Discrimination of Volatile Organic Compounds with Different Invasive Severities and Soil Profiles in Durian Infected with Phytophthora palmivora. 2023.</i>	<i>Universitas Negeri Yogyakarta</i>	<i>50.000.000</i>
	2023	<i>Biostimulation of Elicitors in In Vitro Culture Medium of Dendrobium antennatum to Increase the Content of Secondary Metabolites as Antioxidant and Antiglycation Agents.</i>	<i>Universitas Negeri Yogyakarta</i>	<i>50.000.000</i>
	2023	<i>Antimicrobial Activity of Dendrobium antennatum Ethanol Extract Grown in in vitro culture medium with the addition of Chitin and Cellulose Elicitors.</i>	<i>Universitas Negeri Yogyakarta</i>	<i>40.000.000</i>
	2023	<i>Mechanism of Secondary Metabolite Production Pathways by Chitin and Cellulose Elysatation in In Vitro Culture of Dendrobium antennatum.</i>	<i>Universitas Negeri Yogyakarta</i>	<i>40.000.000</i>
	2023	<i>Complete chloroplast genome sequencing of 6 (six) new species cultivated by "Eka Karya" Bali Botanic Garden.</i>	<i>National Research and Innovation Agency</i>	<i>171.949.103</i>
	2023	<i>Increase in the content of secondary metabolite compounds of the orchid Dendrobium antennatum through induction with chitosan in vitro.</i>	<i>Universitas Negeri Yogyakarta</i>	<i>18.000.000</i>
	2024	<i>Complete chloroplast genome sequencing of 4 (four) endemic bamboos of Bali.</i>	<i>National Research and Innovation Agency</i>	<i>101.944.788</i>
	2024	<i>Effect of Chitin and Cellulose Elisitis on In Vitro Culture on the Genetic Stability of Dendrobium antennatum Orchids Using Random Amplified Polymorphic DNA Mark.</i>	<i>Universitas Negeri Yogyakarta</i>	<i>45.000.000</i>
	2024	<i>DNA Barcoding of Hybrid Cattleya Orchid Based on Chloroplast DNA Marker.</i>	<i>Universitas Negeri Yogyakarta</i>	<i>24.000.000</i>
	2025	<i>The development of Flybiony Kit-based learning media based on the STEM approach uses Drosophila melanogaster to improve students' analytical skills and creativity.</i>	<i>Universitas Negeri Yogyakarta</i>	<i>50.000.000</i>
	2025	<i>Identification of Molecular Markers of Cattleya Orchid Flower Color Properties.</i>	<i>Universitas Negeri Yogyakarta</i>	<i>24.000.000</i>

Community Services Experiences			
2020	<i>Empowerment of posyandu cadres in COVID-19 prevention through simulation of good quality food selection</i>	<i>Universitas Negeri Yogyakarta</i>	6.000.000
2021	<i>Efforts to Prevent the Spread of Covid-19 and Strengthen Immunity through Local Potential-Based Immunosupplements</i>	<i>Universitas Negeri Yogyakarta</i>	6.000.000
2022	<i>Introduction to Basic Techniques of Tissue Culture for Development of Ornamental Plant Business in Sleman Regency</i>	<i>Universitas Negeri Yogyakarta</i>	8.000.000
2022	<i>Adaptation of the Repatriation of Indonesian People in Japan with an Educational and Socioeconomic Approach</i>	<i>Universitas Negeri Yogyakarta</i>	25.000.000
2023	<i>Introduction of orchid cultivation as an alternative to farming business of KWT Rejo Mulyo</i>	<i>Universitas Negeri Yogyakarta</i>	6.000.000
2024	<i>Improving Understanding of Cell and Molecular Biology Materials for MGMP Biology Teachers Through Simple DNA Isolation Practical Work</i>	<i>Universitas Negeri Yogyakarta</i>	25.000.000
2024	<i>Training and assistance in guidance techniques and care for Cattleya orchids</i>	<i>Universitas Negeri Yogyakarta</i>	8.000.000
2025	<i>Material Enrichment and Assistance in Plant Structure, Function, and Genetics Practicum at The Indonesian School of Bangkok</i>	<i>Universitas Negeri Yogyakarta</i>	32.000.000
2025	<i>Empowerment of DIY Orchid Lovers in the Development of Cattleya Orchid Variants</i>	<i>Universitas Negeri Yogyakarta</i>	15.000.000
Industry collaborations over the last 5 years	<i>Project title : -</i> <i>Partners : -</i>		
Patents and proprietary rights	Title <i>The Process of Acclimatizing Cattleya Orchids with Hanging Techniques</i> <i>Video DNA Extraction Method</i>		Year 2025 2025

Important publications over the last 5 years	International Conventions/Workshops/Seminars		
	<i>Pedigree analysis of obesity in families of young women in Yogyakarta.</i> (Author: Paramita Cahyaningrum Kuswandi, Tutiek Rahayu) https://doi.org/10.1063/5.0111149	2023	AIP Conference Proceedings 2556, 030005.
	Publications in International Journals		
	Anatomical, morphological and physiological leaf characters of black betel (<i>Piper betle</i> L. var. <i>nigra</i>) in varying natural and man-made habitats. (Author: Kuswandi PC, Ariyanti NA, Yunus MF, Amri) https://doi.org/10.13057/biodiv/d240618	2023	<i>Biodiversitas</i> 24: 3236-3244
	Genetic variation of the native Rusa deer (<i>Rusa timorensis</i>) in Java and Bali (Indonesia) as revealed using non-invasive sampling. (Authors : M. Hafizhul Iman, Paramita Cahyaningrum Kuswandi, Sena Adi Subrata). https://doi.org/10.13057/biodiv/d250141	2024	BIODIVERSITAS. 25 (1): 355-360.
	Nutrient Requirement and Fertilizer Management for Agarwood Plantations: A Review. (Authors: Muhamad Fahmi Yunus, Mohd Syahmi Salleh, Md Hoirul Azri Ponari, Paramita Cahyaningrum Kuswandi, and Mohd Syafik Mohamad Hamdan). http://doi.org/10.17503/agrivita.v46i2.4437	2024	AGRIVITA Journal of Agricultural Science. 46(2), xxx–xxx.
	The Complete Chloroplast Genome of <i>Medinilla tapete-magicum</i> (Melastomataceae) from Sulawesi, Indonesia. (Authors: Arief Priyadi, Paramita Cahyaningrum Kuswandi, Evy Yulianti, Risha Amilia Pratiwi, Ni Putu Sri Asih). https://doi.org/10.22146/jtbb.87932	2024	Journal of Tropical Biodiversity and Biotechnology. 09(02).
	Tomato fruit: Origin and its developmental regulation. (Authors: Paramita Cahyaningrum Kuswandi, Mohd Razik Midin, Sharifah Siti Maryam Syd Abdul Rahman and Nurul Hidayah Samsulrizal). https://doi.org/10.47253/jtrss.v13i2.1484	2024	J. Trop. Resour. Sustain. Sci. 12 (2024): 103-111.
	Publications in National Journals		
	Efforts to Prevent the Spread of Covid-19 and Strengthen Immunity Through Training on the Development of Immunosupplements Based on Local Potential. (Author: Kartika Ratna Pertiwi, Paramita Cahyaningrum Kuswandi, Tutiek Rahayu, Rizka Apriyani Putri. J.) http://dx.doi.org/10.21831/jpmmp.v6i1.47563	2022	<i>MIPA Community Service and MIPA Education,</i> 2022, 6 (1), 17-22.
Correlation Analysis of Body Mass Index (BMI) in Families of Obese Adolescent Women in Yogyakarta. (Author: Paramita Cahyaningrum Kuswandi & Tutiek Rahayu). https://doi.org/10.21831/jsd.v11i1.44921	2022	<i>Jurnal Sains Dasar.</i> 11 (1) : 1-6.	
The Effect Of Several Concentrations Of Glycine Amino Acid Additions In MS Medium Towards Callus Growth Of Konjac (<i>Amorphophallus Muelleri</i>) By In Vitro Culture. (Author: Rizka Anisa Rennytasari, Paramita Cahyaningrum Kuswandi). http://dx.doi.org/10.21831/kingdom.v8i2.18153	2022	<i>Kingdom (The Journal Of Biological Studies.</i>	
The Effect of BAP Addition on the Induction of Porang Plant Calluses in Vitro. (Author: Zhafira Istiqla Lailani, Paramita Cahyaningrum Kuswandi) http://dx.doi.org/10.21831/kingdom.v9i1.18481	2023	<i>Kingdom (The Journal Of Biological Studies)</i>	

	Exploring Students' Perspective on Using Online Collaborative Platform in Biology Laboratory Work. (Author: Rizqa Devi Anazifa, Suratsih Suratsih, Paramita Cahyaningrum Kuswandi, Anggi Tias Pratama) http://dx.doi.org/10.24235/sc.educatia.v12i1.11896	2023	<i>Scientiae Educatia: Journal of Science Education</i> . Vol 12 no1.
	The effects of 2,4-Dichlorophenoxyacetic acid and leaf surface orientation on callus induction of black betel (<i>Piper betle</i> L. var. <i>nigra</i>). (Author: Paramita Cahyaningrum Kuswandi, Fajar Prasetya, Rahma Sutanti Rahayu) https://doi.org/10.24252/bio.v11i1.35796	2023	<i>Biogenesis: Jurnal Ilmiah Biologi</i> Vol 11 No1.
	Karangsari's Starfruit Agrotourism; Blitar's Local Pride as A Source of Biology Worksheet Apps to Enhance Students' Science Literacy. (Author: Shafila Sahnaz, Paramita Cahyaningrum Kuswandi) https://doi.org/10.29303/jppipa.v9i8.3888	2023	<i>Journal of Science Education Research</i> , 9(8), 5827–5833.
	Effectiveness Of Majapahit Leaf Extract (<i>Crescentia Cujete</i> L.) As A Natural Pesticide For Banana Leaf Roller Caterpillar (<i>Erionota thrax</i> L). (Author: Ibnu Pratomo, Tien Aminatun, Paramita Cahyaningrum Kuswandi) https://doi.org/10.21831/ijobi.v1i1.106	2023	Indonesian Journal of Bioscience (IJOBI).1(1): 24-36.
	The Effect of Virgin Coconut Oil Diet on Cholesterol Levels, Weight, and Total Images of Five Generations of <i>Drosophila melanogaster</i> . (Author: Kartika Ratna Pertiwi, Estulesya Ika Fitriana, Paramita Cahyaningrum Kuswandi) https://journal.unesa.ac.id/index.php/lenterabio/index	2024	Lanterabio. 13 (1): 167-175.
	PteridophytaE-Encyclopedia of Kelud Mountain to Study of the Diversity of Fern Species in the Environment on the RICOSRE Model to Improve Student's Information Literacy. (Author: Dwi Ayuningtyas, Paramita Cahyaningrum Kuswandi) https://doi.org/10.29303/jppipa.v10i1.5917	2024	Jurnal Penelitian Pendidikan IPA, 10(1), 254–260.
	Effectiveness of Fungicides and Vinegar for the Sterilization of Black Betel (<i>Piper betle</i> L. var <i>Nigra</i>) Plants. (Authors : Paramita Cahyaningrum Kuswandi & Fajar Prasetya). https://doi.org/10.33394/bioscientist.v12i1.9901	2024	Bioscientist : Scientific Journal of Biology, 12(1): 380-390.
	The Transgenerational Effects Of Oil Supplementation On Fruit Flies (<i>Drosophila melanogaster</i>) Progeni. (Authors : Paramita Cahyaningrum Kuswandi, Kartika Ratna Pertiwi, Ibnu Kholdun Sukma Aji). http://dx.doi.org/10.15408/kauniyah.v18i1.35362	2025	AL-KAUNIYAH: Journal of Biology, 18(1), 2025, 83-90.
Activities in specialist bodies over the last 5 years	<i>Organisation</i>	<i>Role</i>	<i>Period</i>
	-	-	-