Staff Handbook

Name	***Paramita Cahyaningrum Kuswandi, S.P., M.Sc., Ph.D.***		
Post	*Assistant Professor in Genetics* *Genetics*		
Academic career	*Teaching staff*	*Dept. of Biology Education, Universitas Negeri Yogyakarta*	*2010*
	Doctorate Degree (Plant and crop science)	*School of Biosciences, University of Nottingham, U.K.*	*2015-2019*
	Master Degree (Plant breeding)	*Fac. Agriculture, Universitas Gadjah Mada*	*2005-2009*
	Bachelor degree (Plant breeding)	*Fac. Agriculture, Universitas Gadjah Mada*	*1998-2002*
Employment	***Position***	***Employer***	***Period***
	Teaching staff (Genetics)	*Ministry of Higher Education, Science, and Technology, Republic of Indonesia*	*2010-now*

Research and development projects over the last 5 years	*Year*	*Topic*	*Funding*	
			Source	*Amount (Rp.)*
	Research Experiences			
	2020	*Nutritional Intake and Activity of Young Women, Relationship with Obesity and Its Inheritance Patterns.*	*Universitas Negeri Yogyakarta*	18.000.000
	2021	*Effect of Dietary Variation on Several Generations of Fruit Flies (Drosophila Melanogaster) as Obesity Experimental Model Organisms.*	*Universitas Negeri Yogyakarta*	*18.000.000*
	2021	*Exploitation of Endophytic Bacteria from Cayenne Pepper Plants as a Biocontrol Agent for Anthracnose Disease in Vitro to Reduce the Use of Fungicides.*	*Universitas Negeri Yogyakarta*	*20.000.000*
	2022	*Potential of Drosophila Melanogaster as a Model Organism for Epigenetic Metabolic Syndrome.*	*Universitas Negeri Yogyakarta*	*20.000.000*
	2022	*Volatile Organic Compound Analysis of Durian Infected by Phytophtera palmivora as Early Detecting Method Approach.*	*Universitas Negeri Yogyakarta*	*50.000.000*
	2022	*Characterization of Leaf Morphology, Physiology and Anatomy for Optimizing the Development of Black Betel Cultivation Habitat (Piper Betle L.*	*Universitas Negeri Yogyakarta*	*20.000.000*

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

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

Industry collaborations over the last 5 years	*Project title : -* *Partners : -*
Patents and proprietary rights	***Title*** — ***Year*** *The Process of Acclimatizing Cattleya Orchids with Hanging Techniques* — *2025* *Video DNA Extraction Method* — *2025*

Important publications over the last 5 years	**International Conventions/Workshops/Seminars**		
	Pedigree analysis of obesity in families of young women in Yogyakarta. (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 (*Piper betle* L. var. nigra) in varying natural and man-made habitats. **(**Author: Kuswandi PC, Ariyanti NA, Yunus MF, Amri) https://doi.org/10.13057/biodiv/d240618	*2023*	*Biodiversitas* 24: 3236-3244
	Genetic variation of the native Rusa deer (*Rusa timorensis*) 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 *Medinilla tapete-magicum* (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*	*MIPA Community Service and MIPA Education*, 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*	*Jurnal Sains Dasar*. 11 (1) : 1-6.
	The Effect Of Several Concentrations Of Glycine Amino Acid Additions In MS Medium Towars Callus Growth Of Konjac (*Amorphophallus Muelleri*) By In Vitro Culture. (Author: Rizka Anisa Rennytasari, Paramita Cahyaningrum Kuswandi). http://dx.doi.org/10.21831/kingdom.v8i2.18153	*2022*	*Kingdom (The Journal Of Biological Studies.*
	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*	*Kingdom (The Journal Of Biological Studies)*

	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*	*Scientiae Educatia: Journal of Science Education*. Vol 12 no1.
	The effects of 2,4-Dichlorophenoxyacetic acid and leaf surface orientation on callus induction of black betel (*Piper betle* L. var. nigra). (Author: Paramita Cahyaningrum Kuswandi, Fajar Prasetya, Rahma Sutanti Rahayu) https://doi.org/10.24252/bio.v11i1.35796	*2023*	*Biogenesis: Jurnal Ilmiah Biologi* 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*	*Journal of Science Education Research*, 9(8), 5827–5833.
	Effectiveness Of Majapahit Leaf Extract (*Crescentia Cujete* L.) As A Natural Pesticide For Banana Leaf Roller Caterpillar (*Erionota thrax* 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 Drosophila melanogaster*. (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 (*Piper betle* L. var Nigra) 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 (*Drosophila melanogaster*) 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	*Organisation*	*Role*	*Period*
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