

Staff Handbook

Name	Kartika Ratna Pertiwi, MD., M. Biomed. Sc, Ph.D		
Post	<i>Medicinal Biology</i>		
Academic career	<i>S1 (Bachelor)</i>	<i>Gadjah Mada University, Indonesia</i>	<i>1999-2003</i>
	<i>S2 (Master)</i>	<i>James Cook University, Australia</i>	<i>2009-2010</i>
	<i>S3 (Doctorate)</i>	<i>University of Amsterdam, the Netherland</i>	<i>2015-2020</i>
Employment	<i>Coordinator of International Class</i>	<i>International and Partnership (KUIK)</i>	<i>2012 – 2015</i>
	<i>International and Cooperation Unit</i>	<i>International and Partnership (KUIK)</i>	<i>2020</i>
	<i>Secretary of International Office</i>	<i>International and Partnership (KUIK)</i>	<i>2021 – 2022</i>
	<i>Head of Biology Education Department</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>2023</i>
	<i>Acting Dean for Faculty of Medicine</i>	<i>Faculty of Medicine</i>	<i>2024</i>
	<i>Dean of Faculty of Medicine</i>	<i>Faculty of Medicine</i>	<i>2025 - 2030</i>
Research and development projects over the last 5 years	<i>Year</i>	<i>Topic</i>	<i>Funding</i>
			<i>Source Amount (Million Rp.)</i>
	Research Experiences		
	2021	Development of Anticovid-19 Herbal Combination Formulation in Micro and Nanoemulsion Form and Testing Its Activity as an Immune Response Modulator (Year 1)	Ministry of Research, Technology, and Higher Education 310.250.000
	2021	The effect of dietary variation on several generations of fruit flies (<i>Drosophila Melanogaster</i>) as an experimental model organism for obesity.	UNY 18.000.000
	2022	Determination of Biomarkers of Diabetes Mellitus Progression Type II as a Risk Factor for Covid-19 Severity	Ministry of Research, Technology, and Higher Education 210.000.000
	2022	The Potential of <i>Drosophila Melanogaster</i> as a Model Organism for The Epigenetics of Metabolic Syndrome	UNY 50.000.000

	2022	Antibacterial and Antibiofilm Potential of Sambiloto Leaf Extract (<i>Andrographis paniculata</i>) as Prevention of Pathogenic Bacterial Resistance to Antibiotics	UNY	20.000.000
	2022	Antiglycation and Antioxidant Activity of Black Garlic in Diabetes Mellitus Model Rats Induced by Streptozotocin and Staphylococcus aureus	UNY	18.000.000
	2022	Innate Lymphoid Cells in Atherosclerosis	UNY	50.000.000
	2022	Development of Anticovid-19 Herbal Combination Formulation in Micro and Nanoemulsion Form and Testing Its Activity as an Immune Response Modulator (Year 2)	Ministry of Research, Technology, and Higher Education	172.552.000
	2023	Formulation and Physicochemical Biological Analysis of Fermented Coffee with Various Microbial Starters	Formulation and Physicochemical Biological Analysis of Fermented Coffee with Various Microbial Starters	18.000.000
	2023	Phenotyping Innate Lymphoid Cells in Coronary Thrombus	UNY	40.000.000
	2023	Mapping the Evolutionary Pathway of Nycteris javanica Bats (Chiroptera: Nycteridae) Based on DNA Barcoding (MtDNA D-Loop Gene)	UNY	50.000.000
	2023	Determination of Biomarker for Monitoring the Progression of Sport Injury: A Systematic Review	UNY	75.000.000
	2023	The Effectiveness of Black Garlic as a Progression Inhibitor and Immunity Booster in Diabetes Model Rats Infected with Staphylococcus aureus	UNY	137.600.036
	2023	Development of Nanoemulsion Formula of Combined Herbal Extracts as an Immunomodulator	Matching Fund with Deltomed - Ministry of Research, Technology, and Higher Education	847.539.557
	2024	Study of Nutrition Status and Intake and Supplement Use in National Paralympic Committee DIY Athletes	UNY	30.000.000
	2024	Exploration of Blood Donor Visits as a Decision Making Strategy for Blood Donor	Ministry of Research,	129.850.000

		Retention in the Special Region of Yogyakarta Province	Technology, and Higher Education	
	2024	Relationship of Fasting Blood Glucose Triglyceride Index (TyG) and Homeostatic Model Assessment for Insulin Resistance (HOMA-IR) to Metabolic Syndrome (MetS) in Adult Subjects in Yogyakarta	UNY	45.000.000
	2024	Development of Smart Planning Prototype Model in Green Laboratories Management, Faculty of Medicine, Yogyakarta State University	Equity - Ministry of Research, Technology, and Higher Education	50.000.000
	2025	Determinants of Immune Status to Hepatitis in Athletes in High-Achievement Sports	UNY	36.000.000
	2025	Development of FLYBIONY KIT learning media based on STEM approach using <i>Drosophila melanogaster</i> to improve students' analytical skills and creativity	UNY	50.000.000
	2025	HLA DRB Gene Polymorphism in Metabolic Syndrome Patients in Yogyakarta	UNY	70.000.000
	2025	Identification of HLA-DPB1 Polymorphism in Humoral Immunity Regulation After Hepatitis B Booster Vaccination as a Basis for Developing Personal Immunization Strategies	BIMA - Ministry of Research, Technology, and Higher Education	146.310.000
	2025	Determinants of NO and CRP Levels as Biomarkers of Oxidative Stress and Endothelial Dysfunction in Communities Affected by Microplastic Pollution: The Role of Physical Activity and Antioxidant Diet Patterns	Riset Kolaborasi LPTK Indonesia	50.000.000
	2025	Immunity Changes in Type 2 DM with Natural Supplements and Massage Therapy	Riset Kolaborasi Indonesia	75.000.000
	Community Services Experiences			
	2021	Efforts to Prevent the Spread of Covid-19 and Strengthen Body Immunity Through Local Potential-Based Immunosupplements	UNY	6.000.000
	2021	Strengthening Academic Competence, Soft Skills, and Cross-Cultural Understanding between FMIPA UNY, Indonesia, and Kolej 17 UPM, Malaysia	UPM	1.800.000
	2022	Empowerment of Health Cadres in an Effort to Increase Reproductive Health Literacy and Nutritional Awareness of the Sidorejo Village Community, Kemalang, Klaten to Prevent Early Marriage and Stunting Incidents	UNY	12.500.000

	2023	Empowerment of Posyandu Cadres in Preparing PMT Based on PUGS to Prevent Stunting and Wasting	UNY	8.000.000
	2024	Guidance in Preparation of Thematic Science Project-based Learning Modules for The Independent Curriculum for Biology Teachers at MA Yogyakarta	UNY	6.000.000
	2024	Screening and Prevention of Non-Communicable Diseases in Pengasih Village, Pengasih, Kulon Progo	UNY	20.000.000
	2024	Increasing Health Literacy and Nutritional Awareness of the Young Generation to Prevent Metabolic Syndrome Early	UNY	25.000.000
	2024	Sports Injury Handling Training for Hapkido Trainer in Special Region of Yogyakarta	UNY	10.000.000
	2024	Empowerment of Compassionate Elderly Cadres in Preventing Metabolic Diseases	UNY	20.000.000
	2025	Mitigating the Health Impact of Microplastic Pollution on Health through Strengthening Environmental Literacy and Healthy Lifestyle Education	UNY	25.000.000
	2025	Increasing Awareness of the Dangers of Hepatitis Infection through Nutritional Awareness Education and Healthy Living Behavior in Athletes in High-Achieving Sports	UNY	12.000.000
	2025	Strengthening Science, Health, Cultural, Digital and Financial Literacy for the Young Generation of Bumijo Through Mentoring at SMPN 12 Yogyakarta.	UNY	40.000.000
Industry collaborations over the last 5 years	<i>Project title: -</i> <i>Partners: -</i>			
Patents and proprietary rights	Patents Title <i>Komposisi Adonan Cookies Casava Terfortifikasi Kromium (Iii) Glutamat Sebagai Makanan Fungsional Bagi Penyandang Diabetes Mellitus Tipe II</i> Proprietary Rights Title <i>E-LKPD Probing Prompting Materi Sistem Imun Manusia berbantuan Telegram</i>			Year 2020

	<i>Modul Elektronik Pembelajaran Biologi Berbasis PBL pada Materi Pengaruh NAPZA terhadap Sistem Saraf Cerdik dan Patuh Mencegah PTM</i>			2024
	<i>Pencegahan dan Pengelolaan Penyakit Metabolik Bagi Kader Lansia E-Modul Pengayaan Berbasis Stem Materi Sistem Ekskresi Untuk Meningkatkan Keterampilan Berpikir Kritis dan Kemandirian Siswa SMA</i>			2024
				2024
Important publications over the last 5 years	International Conventions/Workshops/Seminars			
	Maastricht Conference on Coagulation and Thrombosis Consensus on Thrombosis and Haemostasis (MCCT)	2017	Oral Presenter	
	European Conference of Pathology (ECP) Amsterdam European Society of Pathology	2017	Oral Presenter	
	Frontiers Cardiovascular Biology Vienna European Society of Cardiology	2018	Oral Presenter	
	Workshop Cardiovascular Pathology FK UNHAS	2018	Speaker	
	International Seminar on Biology and Biology Education (ISBBDE) Jurdik Biologi FMIPA UNY	2018	Oral Presenter	
	Amsterdam Cardiovascular Sciences in Amsterdam, the Netherlands	2019	Poster Presenter	
	AMC-VUMC Pathology Joint Meeting in Amsterdam, the Netherlands	2019	Oral Presenter	
	The 7th International Conference on Research Implementation and Education of Mathematics and Sciences FMIPA UNY	2020	Oral Presenter	
	The 8th International Conference on Research Implementation and Education of Mathematics and Sciences FMIPA UNY	2021	Committee	
	The 9th International Conference on Research Implementation and Education of Mathematics and Sciences FMIPA UNY	2022	Oral Presenter	
	The 10th International Conference on Research Implementation and Education of Mathematics and Sciences FMIPA UNY	2023	Oral Presenter	
	The 10th International Seminar on Science Education	2024	Oral Presenter	
	The 12 th 1International Conference on Educational Research and Innovation	2024	Oral Presenter	
	Publications in International Journals			
	Atherothrombosis and Thromboembolism: Position Paper from the Second Maastricht Consensus Conference on Thrombosis	2018	Thrombosis and Haemostasis, 2018, 118, 2, 2567-689X	

	Etosis, rather than apoptosis or cell proliferation, typifies thrombus progression – An immunohistochemical study of coronary aspirates	2019	IJC Heart and Vasculature, 2019, 26, 1, 2352-9067
	Extracellular traps derived from macrophages, mast cells, eosinophils and neutrophils are generated in a time-dependent manner during atherothrombosis	2019	Journal of Pathology, 2019, 247, 4, 1096-9896
	Immunophenotypic analysis of the chronological events of tissue repair in aortic medial dissections	2019	Cardiovascular Pathology, 2019, 34, 1, 1054-8807
	Ischemia Reperfusion Injury Produces, and Ischemic Preconditioning Prevents, Rat Cardiac Fibroblast Differentiation: Role of KATP Channels	2019	Journal of Cardiovascular Development and Disease, 2019, 6, 2, 2308-3425
	Neutrophil Extracellular Traps Participate in All Different Types of Thrombotic and Haemorrhagic Complications of Coronary Atherosclerosis	2019	Thrombosis and Haemostasis, 2019, 118, 6, 0340-6245
	Phytochemical Analysis Both of Water and Ethanol Extract from Some Herbs Combinations, Nano emulsion Formulation, and Antioxidant Effects	2022	Open Access Macedonian Journal of Medical Sciences, 2022
	Potential Indonesian Herbs to Develop a Mix Herbal Immunomodulator Supplement: A Hermeneutic Systematic Review	2022	Journal of Drug and Alcohol Research, Vol 11, 2022
	Prognostic Value of Histopathological Thrombus Age in Large Vessel Occlusion-Related Stroke	2022	Cerebrovascular diseases extra, 2022: 13 (1), 97-104
	Thrombus characteristics evaluated by acute optical coherence tomography in ST elevation myocardial Infarction	2022	<i>PloS one</i> 17.4, 2022: e0266634
	Physical Activity and Post-COVID-19 Syndrome in Older Adults: A Systematic Review	2023	International Journal of Kinesiology and Sports

			Science, 2023: 11 (1), 42-52
	Enrichment of type 1 innate lymphoid cells in the course of human atherosclerotic plaque development suggests contribution to atherogenesis	2024	Frontiers in immunology 15, 1354617
Activities in specialist bodies over the last 5 years	<i>Organisation</i> <i>Role</i> <i>Period</i> <i>Membership without a specific role need not be mentioned</i> -		