

STAFF HANDBOOK



Name	Dr. Sapti Puspitarini, S.Si.,M.Si		
Position	Lecturer at Science Education, Universitas Negeri Surabaya (UNESA)		
Academic Career	Doctoral degree	Biology Department Brawijaya University	2018-2021
	Master degree	Biology Department Brawijaya University	2017-2019
	Bachelor degree	Biology Department Brawijaya University	2012-2016
Employment	Lecturer	Universitas Negeri Surabaya	2023 - now
Research and Development Project over the last 5 years	1. <i>Studi Efek Farmakologi Antikanker pada Kombinasi Jamu Pahitan Berbahan Sambiloto: Upaya Sainifikasi Jamu Menuju Pengembangan Fitofarmaka</i>		2025
	2. <i>Enkapsulasi Ekstrak Rumput Gajah (Pennisetum purpureum) Pada Supramolecular Polymeric Nanopartikel untuk Mengurangi Plak Aterosklerosis Pada Pembuluh Darah Tikus Strain Wistar</i>		2025
	3. <i>Studi Pengaruh Suhu pada Proses Ekstraksi Air Tanaman Herbal Terhadap Kandungan Senyawa Metabolit dan Aktivitas Antioksidan dalam Upaya Sainifikasi Jamu Tradisional</i>		2025
	4. <i>Instrumen Self-Assessment Berbasis Artificial Intelligence (AI) untuk Meningkatkan Keterampilan Argumentasi Mahasiswa pada Pembelajaran Sains</i>		2025
	5. <i>Implementasi Socio-Scientific Inquiry-Based Blended Learning (SSIBBL) untuk Meningkatkan Literasi Sains Mahasiswa Calon Guru IPA: Upaya Mewujudkan Warga Negara yang Melek Sains dan Bertanggung Jawab terhadap Berbagai Permasalahan Global</i>		2025
	6. <i>Studi Karakteristik dan Metabolomik pada Ekstrak Daun Ungu (Graptophyllum pictum Griff.) dan Miana (Plectranthus scutellarioides) sebagai Pewarna Alami</i>		2025
	7. <i>Identifikasi Fitokimia Daun dan Biji Mahoni Serta Potensinya Sebagai Anti-Inflamasi</i>		2025
	8. <i>Nanopartikel Berbasis Karbon Dari Kulit Kacang Berlapis β-Cyclodextrin sebagai Media Bioimaging untuk Mendeteksi Sel Kanker</i>		2024

	9. <i>Profil Metabolit Sekunder Ekstrak Meniran (Phyllanthus niruri) dan Katuk (Sauropus androgynus) serta Potensinya sebagai Antibakteri</i> 10. <i>Photosensitizer Ekstrak Meniran (Phyllanthus niruri) Berhias Zinc Oxide Nanokomposit Sebagai Agen Antikanker Berbasis Photodynamic Therapy</i>	2024 2024 2024
Industry Collaborations over the last 5 years	-	
Patents and Property right	-	
Important Publications over the last 5 years	Mohammad Budiyanto , Fasih B Ilhami , Andika P Wardana, Nora Ertanti, Sapti Puspitarini . Crafting extract of Meniran-derived carbon decorated on zinc oxide as composite material for effective cancer treatment. General physiology and biophysics 44(3):227-234.	2025
	Ahmad Fauzi Hendratmoko, Sapti Puspitarini , Mohammad Budiyanto, Nanang Rahman, Kiki Septaria, Siti Marpuah. Think-Aloud Protocol as a Method for Exploring and Understanding the Argumentation Skills of Pre-Service Science Teachers. Prisma Sains: Jurnal Pengkajian Ilmu dan Pembelajaran Matematika dan IPA IKIP Mataram Volume 13, No 2 https://e-journal.undikma.ac.id/index.php/prismasains/article/view/15214	2025
	Alyyah Fikrotun Nisa, Iffah Nur Fauziyah, Ika Nur Aini, Raden Eliza Wardhani, Dyah Astriani, Sapti Puspitarini . Preparation of Virgin Coconut Oil (VCO) Using the Pineapple Enzymatic Method. BIOTIK: Jurnal Ilmiah Biologi Teknologi dan Kependidikan Volume 13, No 1 http://dx.doi.org/10.22373/biotik.v13i1.23682	2025
	Abere Habtamu Manayia, Fasih Bintang Ilhami, Sapti Puspitarini . Investigation of Phytochemicals and Antibacterial Efficacy in Flower Extracts of Vernonia amygdalina: Complemented Molecular Docking Analysis. Journal of the Indian Chemical Society	2025

	Volume 102, Issue 3 https://doi.org/10.1016/j.jics.2025.101604	
	Fasih Bintang Ilhami, Sapti Puspitarini , Fitriana, Astrid Rahmawati, Noor Rohmah Mayasari, Hepy Herliniati . Protective layer β -cyclodextrin within peanut (<i>Arachis hypogaea</i> L.) shells' nanoparticles enhances intracellular stable fluorescence for bioimaging applications: An in vitro and in silico study. Plant Nano Biology Volume 11 , February 2025, 100135 https://doi.org/10.1016/j.plana.2025.100135	2025
	Fasih Bintang Ilhami, Sari Edi Cahyaningrum, Andika Pramudya Wardana, Noto Susanto Gultom, Hasan Subekti, Astrid Rahmawati and Sapti Puspitarini . Meniran (<i>Phyllanthus niruri</i> L.) embedded zeolitic imidazolate framework (ZIF-8) nanoparticle for cancer chemotherapy: supported molecular docking analysis. RSC advances 15, 223-230 https://doi.org/10.1039/D4RA06399F	2025
	Sapti Puspitarini , Haidar Azzamudin, Maria Ulinnuha, Alya H. Puspitoputri, Shafanony Khansa, Mohammad Budiyanto, Sri Widyarti, Nashi Widodo, Muhaimin Rifa'i. Immunomodulator Effect of Polyherbal Extract Turmeric-Meniran on Macrophages Profile of Mice Cancer Model by DMBA Injection. Malaysian Journal of Fundamental and Applied Sciences Volume 20 No. 3 https://doi.org/10.11113/mjfas.v20n2.3332	2024
	M Budiyanto , S Puspitarini , S Prasetyo , H Subekti , Y S Birhan , A Qosyim, F B Ilhami. In vitro investigation on Pennisetum purpureum leaf extracts grown in Indonesia of phytochemical components, optical characteristics, and antioxidant-antibacterial activities Brazilian Journal of Biology 84:e280855 https://doi.org/10.1590/1519-6984.280855	2024
	Tutut Nurita, Lia Yuliati, Muhamad Arif Mahdiannur, Fasih Bintang Ilhami, An Nuril Maulida Fauziah, Ahmad Fauzi Hendratmoko, Sapti Puspitarini . Increasing Pre-service Science Teacher Creativity Through STEM Problem-Solving. Jurnal Penelitian Pendidikan IPA Volume 10 No. 1 https://doi.org/10.29303/jppipa.v10i1.6335	2024
	Sapti Puspitarini , Dinia R Dwijayanti, Septian T Wicaksono, Noviana D Lestari, Rizka P Rahayu, Nashi Widodo.	2023

	Antioxidant Activity and Anti-inflammatory Effect of Indian Borage Against Lipopolysaccharide-Induced Inflammation in Murine Macrophage (RAW 264.7) Cell Line. Tropical Journal of Natural Product Research Vol 7, Issue 12, p5429 https://doi.org/10.26538/tjnpr/v7i12.10	
	Dinia Rizqi Dwijayanti, Sapti Puspitarini , Nashi Widodo. Piper betle L. Leaves Extract Potentially Reduce the Nitric Oxide Production on LPS-Induced RAW 264.7 Cell Lines. Journal of Experimental Life Science Volume 13 No. 2 https://doi.org/10.21776/ub.jels.2023.013.02.02	2023
	Muhammad Hermawan Widyananda, Sapti Puspitarini , Abdul Rohim, Fika Agalia Khairunnisa, Yoga Dwi Jatmiko, Masruri Masruri, Nashi Widodo. Anticancer potential of turmeric (Curcuma longa) ethanol extract and prediction of its mechanism through the Akt1 pathway. F1000Research https://f1000research.com/articles/11-1000	2022
	Muhammad Hermawan Widyananda, Septian Tri Wicaksono, Kurnia Rahmawati, Sapti Puspitarini , Siti Mariyah Ulfa, Yoga Dwi Jatmiko, Masruri Masruri, Nashi Widodo. A Potential Anticancer Mechanism of Finger Root (Boesenbergia rotunda) Extracts against a Breast Cancer Cell Line. Scientifica 2022:9130252 https://doi.org/10.1155/2022/9130252	2022
	Sapti Puspitarini , Nashi Widodo, Sri Widyarti, Yoga Dwi Jatmiko, Muhaimin Rifai. Polyherbal effect between Phyllanthus urinaria and Curcuma longa as an anticancer and antioxidant. Research Journal of Pharmacology and Technology Volume 15. No 2 https://doi.org/10.52711/0974-360X.2022.00111	2022
	Nashi Widodo, Sapti Puspitarini , Muhammad Hermawan Widyananda, Adzral Alamsyah, Septian Tri Wicaksono, Masruri Masruri, Yoga Dwi Jatmiko. Anticancer activity of Caesalpinia sappan by downregulating mitochondrial genes in A549 lung cancer cell line. F1000Research 11:169 https://doi.org/10.12688/f1000research.76187.2	2022
Activities in specialist	-	

bodies over the last 5 years		
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