STAFF HANDBOOK

Name	Bayu Hadi Permana, S.Si., Ph.D.			
Position	Lecturer on Biotechnology			
Academic Career	**Degree**	**University**		**Year**
	Bachelor Degree (Biology)	University of Brawijaya - Indonesia		2015-2018
	Doctor (Biotechnology)	King Mongkut's University of Technology Thonburi - Thailand		2019-2024
Employment	**Position**	**Employer**		**Period**
	Lecturer	Universitas Negeri Surabaya – Indonesia		2025-now
Research and Development Projects Over the Last 5 Years	**Title**	**Year**	**Partner/Funder**	**Amount of Financing (Rp)**
	Application of *Sansevieria trifasciata* to remove particulate matters and volatile organic compounds: Botanical biofilter development and stress priming response	2019	KMUTT/Petchra Pra Jom Klao Scholarship	100
Community Service Over the Last 5 Year	**Title**	**Year**	**Partner/Funder**	**Amount of Financing (Rp)**
Industry Collaborations	**Title**	**Year**	**Partner/Funder**	**Amount of Financing (Rp)**

Over the Last 5 Years				
Patents and Proprietary Rights	**Title**	**Patent ID**	**Year**	
Publication	**1.** **Permana, B. H.**, Nookongbut, P., Krobthong, S., Yingchutrakul, Y., Saithong, T., Thiravetyan, P., & Treesubsuntorn, C. 2025. Using proteomics to predict indoor potted plant and tree plant responses under particulate matter stress. Chemistry and Ecology, 1-16. (Journal Q2) **2.** **Permana, B.H.**, Krobthong, S., Yingchutrakul, Y., Thiravetyan, P., & Treesubsuntorn, C. 2024. *Sansevieria trifasciata'*s specific metabolite improves tolerance and efficiency for particulate matter and volatile organic compound removal. Environmental Pollution, 355, 124199. (Journal Q1). **3.** **Permana, B.H.**, Thiravetyan, P., Tresubsuntorn, C. 2024. Exogenous of different elicitors: proline and ornithine on *Sansevieria trifasciata* under particulate matter (PM) and volatile organic compounds (VOC), Environmental Science and Pollution Research , 1-10. (Journal Q1). **4.** **Permana, B. H.**, Krobthong, S., Yingchutrakul, Y., Saithong, T., Thiravetyan, P., Treesubsuntorn, C. 2023. Evidence of brassinosteroid signalling and alternate carbon metabolism pathway in the particulate matter and volatile organic compound stress response of *Sansevieria trifasciata*, Environmental and Experimental Botany, 105116. (Journal Q1). **5.** **Permana, B. H.**, Thiravetyan, P., Treesubsuntorn, C. 2022. Effect of airflow pattern and distance on removal of particulate matters and volatile organic compounds from cigarette smoke using *Sansevieria trifasciata* botanical biofilter, Chemosphere, 295, 133919. (Journal Q1).			

	6. Treesubsuntorn, C., Setiawan, G. D., **Permana, B. H.**, Citra, Y., Krobthong, S., Yingchutrakul, Y., Thiravetyan, P. 2021. Particulate matter and volatile organic compound phytoremediation by perennial plants: Affecting factors and plant stress response, Science of The Total Environment, 794, 148779. (Journal Q1). **7.** Siswanto, D., **Permana, B. H.**, Treesubsuntorn, C., Thiravetyan, P. 2020. *Sansevieria trifasciata* and *Chlorophytum comosum* botanical biofilter for cigarette smoke phytoremediation in a pilot-scale experiment—evaluation of multi-pollutant removal efficiency and CO2 emission, Air Quality, Atmosphere & Health, 13, 1, 109-117. (Journal Q2).		
Activities in Special Institution	**Organization**	**Position**	**Period**