

Staff Handbook

Name	<i>Prof. Dr. Sri Puji Astuti Wahyuningsih, Dra. M.Si.</i>		
Post	<i>Immunobiology, Animal Physiology, Molecular Genetics, Molecular Biology, Molecular Analysis Techniques, and Cell Biology.</i>		
Academic career	<i>Bachelor of Science (Biology, Bachelor of Science)</i>	<i>Faculty of Biology, Gadjah Mada University</i>	<i>1991</i>
	<i>Mater of Science (Biology)</i>	<i>Biotechnology, Gadjah Mada University</i>	<i>1999</i>
	<i>Doctorate (Biology)</i>	<i>Mathematics and Natural Science, Airlangga University</i>	<i>2006</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Lecturer (Faculty member of Faculty Science and Technology Universitas Airlangga)</i>	<i>Professor of Biology</i>	<i>1992-now</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <i>1. Immunomodulating and anti-cancer activity of methanol extract of red okra (<i>Abelmoschus esculentus moench</i>) as an effort to develop local natural ingredients to increase (BASIC RESEARCH OF HIGHER EDUCATION). IDR. Rp 237.000.000/2 years</i> <i>2. Antioxidant, Hepatoprotective and Renoprotective Activities of Methanol Extract of Okra Fruit (<i>Abelmoschus esculentus L.</i>) induced by Sodium Nitrite (NaNO_2) (MASTER'S THESIS RESEARCH). IDR. Rp. 60.000.000/year</i> <i>3. Neutraceutical potential of methanol extract of okra fruit (<i>Abelmoschus esculentus L.</i>) to increase immunity due to sodium nitrite induction. (FACULTY EXCELLENCE RESEARCH) IDR. Rp. 40.000.000/year</i> <i>4. Potential of Okra (<i>Abelmoschus esculentus</i>) Polysaccharides as Anti-Cancer Agents in Breast Cancer Cell-line, T47D 20192020 (PMDSU RESEARCH) IDR. Rp. 120.000.000/2 years</i> <i>5. Activity Test of Flavonoid, Xanthon and Polysaccharide Compounds from Biological Materials as Anticancer and Antidiabetic (COLLABORATIVE RESEARCH WITH FOREIGN PARTNERS) IDR. Rp. 100.000.000/year</i> <i>6. Bioactivity of ethanol extract of red okra fruit (<i>Abelmoschus esculentus (L.) Moench</i>) as an anti-colon and breast cancer agent (RESEARCH MANDATES) IDR. Rp. 250.000.000/2 years</i> 		

	<p>7. <i>Exploration and testing of the potential of active natural ingredients okra, mangosteen and Ganoderma sp. as a candidate for standardized herbal medicine for anti-cancer, anti-diabetic and hepatoprotector (RESEARCH MANDATE) IDR. Rp. 250.000.000/2 Years</i></p> <p>8. <i>Exploration and Testing of Potential Active Ingredients of Ganoderma sp. and Okra as a Candidate for Standardized Herbal Medicine for Anti-Cancer and Hepatoprotector (BASIC RESEARCH) IDR. Rp. 150.000.000/year</i></p> <p>9. <i>Antioxidant potential of red okra (Abelmoschus esculentus L. Moench) to repair rattus norvegicus kidney tubule damage caused by n-methyl-nitrosoarea (FACULTY FEATURED RESEARCH) IDR. Rp. 40.000.000/year</i></p> <p>10. <i>Development of quercetin PEGylated nanodiamonds to inhibit tumor growth in colon cancer (SATU JOINT RESEARCH SCHEME) IDR. Rp. 70.000.000/year</i></p> <p>11. <i>Palliative role of red okra pod extract (Abelmoschus esculentus Moench) in cervical cancer: study of molecular mechanisms of oncogene marker mRNA levels, as well as inhibition of cell proliferation and angiogenesis in mouse models (FLAGSHIP BASIC RESEARCH PT) IDR Rp. 276.000.000/2 years</i></p> <p>12. <i>Potential of Red Okra Ethyl Acetate Extract to Increase Apoptosis in Mouse Mammary Cancer Cells Induced by N-Methyl-NitrosoUrea (FACULTY FEATURED RESEARCH) IDR. Rp 40.000.000/year</i></p> <p>13. <i>Phytopharmaceutical Potential of Combination of Red Ginger Rhizome Extract and Avocado Leaves as Antioxidant and Antimicrobial (INTER-UNIVERSITY COLLABORATIVE RESEARCH) IDR. Rp. 60.000.000/year</i></p> <p>14. <i>Anti-Cancer Activity of Ganoderma applanatum Polysaccharide Crude Extract to Suppress the Growth of Cervical Cancer Cells (MASTER'S THESIS RESEARCH) IDR. Rp 24.500.000/year</i></p> <p>15. <i>Photodynamic Optimization of Blue and Red Lasers Using Exogenous Curcumin Activation and Electric Fields for Wound Repair of Mice Infected with Antibiotic Resistant Bacteria (MASTER'S THESIS RESEARCH) IDR. Rp. 24.500.000/year</i></p> <p>16. <i>Potential of Probiotic Strain Duo to Improve Growth, Immune Response, and Metagenomic Profile of Catfish Gastrointestinal Microbiota Due to Aeromonas hydrophila Infection (AIRLANGGA FEATURED RESEARCH) IDR. Rp. 215.000.000/2 years</i></p> <p>17. <i>Development of Nanoparticles for Breast Cancer Therapy (COLLABORATIVE RESEARCH WITH BRIN) IDR. Rp. 300.000.000/year</i></p>
Industry collaborations over the last 5 years	

Patents and proprietary rights	<div style="display: flex; justify-content: space-between;"> Title Year </div>
Important publications over the last 5 years	<p data-bbox="485 241 1246 315"><i>Nanodiamond Conjugation Method with Quercetin for Cancer Therapy</i> 2022</p> <p data-bbox="485 344 1374 418"><i>Immunomodulatory potential of polysaccharides from Coriolus versicolor against intracellular bacteria Neisseria gonorrhoeae, Veterinary World, 12(6): 735-739.</i></p> <p data-bbox="485 443 1433 517"><i>Protective effect of okra pods methanol extract against lead acetate-induced testicular toxicity in mice. Pollution Research. 38 (August Suppl. Issue): S110-S115.</i></p> <p data-bbox="485 542 1410 616"><i>Anticancer activity of okra raw polysaccharides extracts against human liver cancer cells. Tropical Journal of Pharmaceutical Research August 2019; 18 (8): 1667-1672.</i></p> <p data-bbox="485 640 1406 752"><i>Expression and purification of recombinant coat protein of sugarcane mosaic virus from Indonesian isolate as an antigen for antibody production. Indonesian Journal of Biotechnology, Vol 24, No 1 (2019)</i></p> <p data-bbox="485 777 1426 889"><i>The effect of okra (Abelmoschus esculentus moench) pods extract on malondialdehyde and cholesterol level in STZ-induced diabetic mice. Ecology, Environment and Conservation. 25 (4), S50-S56 (Q4).</i></p> <p data-bbox="485 913 1417 1025"><i>Hepatoprotective effect of crude polysaccharides extracted from Ganoderma lucidum against carbon tetrachloride-induced liver injury in mice. Veterinary World, December 2019, 12(12):1987-1991 (Q2).</i></p> <p data-bbox="485 1050 1417 1162"><i>Crude polysaccharides effect of Coriolus versicolor on Mycobacterium fortuitum-induced immune dysfunction in mice. Malaysian Journal of Science, 38 (Special Issue 3): 29- 41 (November 2019).</i></p> <p data-bbox="485 1187 1426 1299"><i>Antioxidant activities of curcumin to mda blood serum concentration and lead levels in liver of mice. Malaysian Journal of Science, 38 (Special Issue 3): 21-29 (November 2019)</i></p> <p data-bbox="485 1323 1394 1435"><i>Antioxidant potency of okra (Abelmoschus esculentus moench) pods extract on SOD level and tissue glucose tolerance in diabetic mice. Research Journal of Pharmacy and Technology. 12(12), pp. 5683-5688.</i></p> <p data-bbox="485 1460 1426 1534"><i>Effect of polysaccharide krestin on MMP3 expression and foot diameter in rheumatoid arthritis in rat. Indian Veterinary Journal, 97(1): 24-266.</i></p> <p data-bbox="485 1559 1394 1671"><i>Antioxidant and nephroprotective effects of okra pods extract (Abelmoschus esculentus L.) against lead acetate-induced toxicity in mice. Scientifica, Vol. 2020, Article ID 4237205, 10 pages</i></p> <p data-bbox="485 1695 1410 1807"><i>The effect of okra pods (Abelmoschus esculentus L.) methanol extract on white blood cell count, phagocytic activity, and IFN-γ level in Mus musculus exposed sodium nitrite. Ecology, Environment and Conservation, 26 (April Supplement Issue): S41-S48.</i></p> <p data-bbox="485 1832 1410 1944"><i>Nephroprotective activity of okra pods extract (Abelmoschus esculentus L.) in sodium nitrite-induced mice. Research Journal of Pharmacy and Technology. 13(8): 3648-3652, Agustus 2020.</i></p>

	<p><i>Hepatoprotective activity of okra (Abelmoschus esculentus L.) in sodium nitrite-induced hepatotoxicity. Veterinary World, 13(9): 1815-1821. Sep 2020.</i></p> <p><i>Antioxidant potency of various fractions of okra pods extract to ameliorate liver structure and function in diabetic mice. Annals of Biology, 2020, 36(2), pp. 154–158.</i></p> <p><i>Preliminary study of dengue virus serotype on aedes mosquitoes in endemic area, surabaya, indonesia, january 2020. Ecology, Environment and Conservation. Vol 26, Nov Suppl. Issue, 2020; Page No. (1-5).</i></p> <p><i>Dual role of immunomodulation by crude polysaccharide from okra against carcinogenic liver injury in mice. Heliyon, 7 (2021) e0618.</i></p> <p><i>Antioxidant Potential of Red Okra Pods (Abelmoschus esculentus Moench). Proceedings of KOBI 2nd International Conference on Management of Tropical Biodiversity for Human Welfare: From Ecosystem to Molecular, EPiC Series in Biological Sciences, Volume 1, 2021, Pages 158–163.</i></p> <p><i>Biocompatibility Testing of Hydroxyapatite-Chitosan-Chondroitin Sulfate Composite Scaffold as Bone Graft. Journal of International Dental and Medical Research, Volume · 14 · Number · 1: 404-411.</i></p> <p><i>Immunomodulating effect of Polysaccharide Krestin from Coriolus versicolor grown in Indonesia against Rheumatoid arthritis in Rat. Research Journal of Pharmacy and Technology. 14(3):1360-1364.</i></p> <p><i>Potential of Red Okra Extract (Abelmoschus esculentus L. Moench) to Restore Kidney Damage due to Sodium Nitrite. 2021. Biosaintifika, Vol 13, No 1: 84-91.</i></p> <p><i>Evaluation of the Bioactivity of MeOH:DMSO (1:1, v/v) Lime Peel Extract on Methicillin-Resistant Staphylococcus aureus. Journal of Hunan University (Natural Sciences), Vol.48, No 5: 216-222.</i></p> <p><i>Polysaccharide krestin activity from Coriolus versicolor extract against phagocytosis ability on mice infected by Staphylococcus aureus. Bioedukasi, Vol. XIX, No. 1: 37-41.</i></p> <p><i>Protective Effect of Red Okra (Abelmoschus esculentus (L.) Moench) Pods against Sodium Nitrite-Induced Liver Injury in Mice. Veterinary Medicine International, Vol. 2021, Article ID 6647800, 11 pages.</i></p> <p><i>The potential of A. muricata bioactive compounds to inhibit HIF1α expression via disruption of tyrosine kinase receptor activity: An in-silico study. Acta Informatica Medica, 29(3), pp. 176–18.</i></p> <p><i>Effect of crude Ganoderma applanatum polysaccharides as a renoprotective agent against carbon tetrachloride-induced early kidney fibrosis in mice. Veterinary World, 15(4): 1022-1030.</i></p> <p><i>Effect of the Ethanol Extract of Red Okra Pods (Abelmoschus esculentus (L.) Moench) to Inhibit Cervical Cancer Cells Growth through Cell Cycle-Associated Oncogenes. Scientifica. Volume 2022, Article ID 1094771, 7 pages.</i></p>
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	<p><i>Immunomodulatory Activity of Okra Raw Polysaccharide Extract by Regulating TNF-A, IFN-G Levels, and Cell Apoptosis in DEN-induced mice. Research Journal of Pharmacy and Technology. 15(2):546-0.</i></p> <p><i>Anti-cancer activity of ethanolic extract of red okra pods (Abelmoschus esculentus L. Moench) on rats induced by n-methyl-nitrosourea. Veterinary World, 15(5): 1177-1184.</i></p> <p><i>The Regulation of Hypoxia Inducible Factor (HIF)1α Expression by Quercetin: an In Silico Study. Acta Informatica Medica. 30(2): 96-99 Juni 2022.</i></p> <p><i>Study of Lime Peel Flavonoid as effectively Antibacterial against Methicillin-Resistant Staphylococcus aureus. Research Journal of Pharmacy and Technology, 2022, 15(7), pp. 3002–3008.</i></p> <p><i>Increasing the effect of annonacin using nanodiamonds to inhibit breast cancer cells growth in rats (Rattus norvegicus)-Induced breast cancer. Heliyon, 2022, 8(11), e11418. Pp. 1-11. 31 Oktober 2022. http://www.cell.com/heliyon.</i></p> <p><i>Enhancing the Anticancer Activity of Squamocin for Breast Cancer Treatment Using Nanodiamond Nanoparticles: An In Vivo Study. 2023. HAYATI Journal of Biosciences, 2023, 30(1), pp. 131–139. 30 Januari 2023.</i></p> <p><i>The Effect of Ganoderma applanatum Crude Polysaccharide Against α-Smooth Muscle Actin and Matrix Metalloproteinase-1 Expressions in Mice after Induced by Carbon Tetrachloride. Biomedical and Pharmacology Journal, 2023, 16(1), pp. 67–72</i></p> <p><i>In vitro and in vivo antiplasmodial activities of leaf extracts from Sonchus arvensis L. BMC Complementary Medicine and Therapies, 2023, 23(47): 1-12.</i></p> <p><i>An overview of the role of Zingiber officinale as an antimicrobial resistance (AMR) solution and a source of antioxidants. Indonesian Journal of Pharmacy.</i></p> <p><i>Characterization of silver nanoparticles (AgNPs) synthesized from Piperornatum leaf extract and its activity against food borne pathogen Staphylococcus aureus. Biodiversitas, volume 24, Number 3, March 2023, Pages: 1742-1748.</i></p> <p><i>Effectiveness of ozone-laser photodynamic combination therapy for healing wounds infected with methicillin-resistant Staphylococcus aureus in mice. Veterinary World, 16(5): 1176–1184. 31-05-2023.</i></p> <p><i>Annonacin and Squamocin Conjugation with Nanodiamond Alters Metastatic Marker Expression in Breast Cancer Cell Line. HAYATI Journal of Biosciences. 31 Oktober 2023</i></p> <p><i>The Effect of G. applanatum Crude Polysaccharide Extract on Proinflammatory Cytokines and Proapoptotic Caspases in HeLa Cell Line: An In Vitro Study. Advances in Pharmacological and Pharmaceutical Sciences, Volume 2023, Article ID 3593295.</i></p>
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Activities in	Organisation	Role	Period
specialist bodies over the last 5 years	<i>Indonesian Biology Association</i>	<i>Member</i>	<i>1992-now</i>
	<i>Indonesian Biology Consortium</i>	<i>Editorial Boards</i>	<i>2015-now</i>
	<i>Association of Indonesian Biology Teacher and Researcher</i>	<i>Member</i>	<i>2019-now</i>

Name	<i>Bambang Irawan</i>		
Post	<i>Ecology, Population Biology, Carcinology, Taxonomi</i>		
Academic career	<i>Doctorate (Population Biology)</i>	<i>Tohoku Univ.</i>	<i>1994</i>
	<i>Graduate (Population Ecology)</i>	<i>Ehime Univ.</i>	<i>1989</i>
	<i>Undergraduate degree (snimal Taxonomy)</i>	<i>Gadjah Mada Univ.</i>	<i>1981</i>
Employment	<i>Profesor</i>	<i>Airlangga University</i>	<i>1982 - now</i>
Research and development projects over the last 5 years	<i>Name of project or research focus</i> <i>Period and any other information</i> <i>Partners, if applicable</i> <i>Amount of financing</i>		
Industry collaborations over the last 5 years	<i>Project title</i> <i>Partners</i>		
Patents and proprietary rights	<i>Title</i>	<i>Year</i>	
Important publications over the last 5 years	<p>Bambang Irawan 2023. <i>Genetika Populasi.</i> Airlangga University Press.</p> <p>Bambang Irawan, Fatimah, Intan Ayu Pratiwi, Moch. Affandi, Ketut Wikantika, Lilik Budi Prasetyo and Thin Soedarti, 2019, Development of mangrove healthy condition (MHC) index based on their symbiotic organisms. <i>Eco. Env. & Cons.</i> 25 (July Suppl. Issue) : pp. (S37-S42) Copyright@ EM International ISSN 0971-765X</p> <p><i>Fu'adil Amin, M.H., Lee, S.R., Irawan, B., Andriyono, S. and Kim, H.W., 2021. Characterization of the complete mitochondrial genome of the Northern Mud Gudgeon, Ophiocara porocephala (Perciformes: Eleotridae) with phylogenetic implications. Mitochondrial DNA Part B, 6(3), pp.953-955.</i></p> <p><i>Amin, M.H.F.A., Syukriya, A.J., Irawan, B., Pratiwi, A.I., Muttaqin, Z. and Winarni, D., 2020. Taxonomic redescription of Colochirus quadrangularis (Echinodermata: Holothuroidea) from Surabaya Coastal Waters (East Java, Indonesia) with notes on new distinctive haplogroup of COI gene. Ecology, Environment and Conservation, 26(4), pp.1617-1622.</i></p> <p><i>Intan Ayu Pratiwi and Bambang Irawan. 2019. Data collection of Basidiomycetes in Eco Campus Area, Surabaya: initial efforts for green open space. Eco. Env. & Cons. 25 (July Suppl. Issue) : 2019; pp. (S95-S99) Copyright@ EM International ISSN 0971-765X</i></p>		
Activities in specialist bodies over the last 5 years	<i>Organisation</i>	<i>Role</i>	<i>Period</i>
	<i>Rhe Inbdonesian Biological Society</i>	<i>Member</i>	<i>1994 - now</i>
	<i>Consortium of Indonesian Bilogy</i>	<i>Member</i>	<i>2014 - now</i>





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Employment

2022 - Now Rector of Institute of Science Technology and Health, ICME Jombang
2016 - Now Head of Collegium of Medical Laboratory Technology
2013-2016 Reviewer of LPDP (National Scholarship)
National Ministry of Finance, Indonesia
2013 Reviewer of Innovative Research Proposal (RISPRO)
National Ministry of Finance, Indonesia
2013 Reviewer of Annual Meeting on Testing and Quality Seminar (AMTeQ)
Research Center for Quality and Technology System, LIPI
2011-2020 Dean of Faculty of Science and Technology
Airlangga University
2009-2016 Reviewer of RISBIN – IPTEKDOK
Department of Health, Indonesia
2009-2011 Reviewer of Research and Public Service in Veterinary and Dentistry Faculty
Airlangga University
2008-2009 Reviewer PHB Proposal for Math and Science
Department of Higher Education, Indonesia
2009 Reviewer of National Research Proposal of Math and Science
Department of Higher Education, Indonesia
2006 Reviewer Research Proposal for Math and Science
Department of Research and Public Service (LPPM), Airlangga University
2006 Professor

- MENDIKNAS (National Ministry of Education)*
- 2001** **Associate Professor**
MENDIKNAS (National Ministry of Education)
- 2001** **Assistant Professor**
MENDIKNAS (National Ministry of Education)
- 1993** **Lecturer**
MENDIKBUD (Ministry of Education and Culture)

Education

- 1982 - 1986** **Bachelor of Science (S.Si)**
Universitas Airlangga - Surabaya
Major in Reproduction Biology
- 1990 - 1993** **Master of Science (M.Si)**
Institut Tehnologi Bandung - Bandung
Major in Developmental Biology
- 1995 - 2000** **Doctorate of Science (Dr.)**
Nagoya University – Japan
Major in Molecular Biology
- 2001** **Post- Doctorate of Science (Dr.)**
Research Institute of Environmental Medicine, Nagoya University - Japan.
Major in Molecular Biology
- Jan – Mar 2005** **International Course (teleconference)**
Tohoku University, Sendai - Japan.
Major in Biotechnology

Public Service Experience

- 2023** Combination of Android Application and Utilization of Local Plant Extracts with Potential Immunomodulators to Support the Reduction of Tuberculosis Cases in Jombang
- 2022.** Android-Based Application for Mapping and Identifying Contacts of Pulmonary TB Patients in Jombang Regency
- 2012** Guest speaker in Biology, Faculty of Mathematics and Science.
Sepuluh Nopember Institute of Technology, Surabaya
- 2013** Topic : Graduate competence of Biology in the perspective of science and technology
Universitas Muhammadiyah Surabaya, Faculty of Teaching and Education
- 2012** Topic : Continuation of experiment result in exact field for lecturer in area VII of Coordinator of

Private Universities

Coordinator of Private Universities in Area VII

- 2011** Topic : The improvement of quality and productivity of university lecturer's research experience
Universitas Negeri Malang (UM)
- 2012** Topic : Soft skill excellence in campus, in order to produce a good quality graduates
Institute Agama Islam Negeri Sunan Ampel, (IAIN Surabaya), Faculty of Tarbiyah
- 2013** Topic : Workshop and clinic about research proposal
Universitas Wijaya Kusuma Surabaya
- 2016** Topic : Strengthening Of Basic Molecular Biology Techniques Towards Autonomy Of University, Presenting in The 40th Annual Conference of AMTT in conjunction with 16th ACCLS, Pattaya, Choburi, Thailand.
- 2016** Topic : Requirement For Quality And Competence Of Medical Laboratories
MUSCAB II, DPC KEDIRI
- 2016** Topic : Best Practices of Bio-ethic Learning and Application in Faculty of Science and Technology Guest speaker in World Bioethics Day by UNESCO Chair in Bioethics.
- 2016** Topic : Role of student in supporting National Autonomy.
Guest Lecturer in Mataram University, Lombok.
- 2016** Topic : Herbal medicine
Guest Lecturer in STIKES Maharani Graduation, Malang
- 2016** Topic : The Development of Medical Laboratory Experts towards International Level
Guest speaker in RAKERNAS XII dan Temu Ilmiah (12th National Report and Scientific Meeting) of Laboratory Technology Expert, in Medik Grand Royal Panghegar, Bandung.
- 2017** Topic : The Challenges and The Future of Medical Laboratory Experts in Indonesia
Guest Speaker in Konggres Luar Biasa (National Meeting I) of Indonesia Medical Analyst Association in University Level. Amroossa Royal Hotel, Bogor.
- 2017** Topic : Bioethic Application in Science and Healthcare
Guest Lecturer in STIKES Anwar Medika.
- 2017** Topic : The role of Collegium in developing Education and Specialist Standard towards National Autonomy.
Guest speaker in National Meeting of Medical Laboratory Technology Expert Association (PATELKI), Surabaya

Organization

1991 – Present	Indonesian Biology Association (PBI),
1995 – Present	Japanese Teratology Society (member)
1995 – Present	Japanese Radiation Research Society (member)
1982 – 1984	President of Senate of Faculty of Science and Technology

Research Interest

- Reproductive Biology
- Molecular Biology
- Teratology

Research Experience

No.	Years	Title
1	2021-2023	Potential of β -Glucan Nanoparticles as an inhibitor of cancer growth in the cervix and colon
2	2019-2021	Potency of <i>Ganoderma applanatum</i> Crude Polysaccharide as a anti fibrosis in kidney and anti-cervical cancer
3	2018-2020	Potency of the Ethanol Extract of Red Okra Pods (<i>Abelmoschus esculentus</i> (L.) Moench) to Inhibit Cervical Cancer Cells Growth through Cell Cycle-Associated Oncogenes.
4	2016-2017	Polysaccharides krestine potential for diabetes treatment caused by the induction of 2- Methoxyethanol in mice. (Research Leader)
5	2016-2017	Synthesis and Purification of Protein Recombinant of Kapsid Sugarcane Mosaic Virus for polyclonal antibody production as an alternative for fast detection of Mosaic disease in sugar cane. (Research Leader)
6	2014- 2015	Polysaccharide krestin immunomodulator from <i>Corolus versicolor</i> extract on the infection of intracellular and extracellular bacteria. (1 st member)
7	2013-2014	Cell death pattern characteristic and expression of neuroglobin gene, HIF1 α , in the cerebral cortex of Swiss Webster mice (<i>Mus musculus</i>) caused by 2-Methoxyethanol. Medical Science. Universitas Airlangga (1 st member)
8	2013-2014	The expression of mRNA Vimetin gene level and GFAP in cerebral cortex of mice caused by 2-Metoxyethanol. Medical Science. Universitas Airlangga (2 nd member)
9	2011-2012	Hematological Effect, cell Death Characteristic and Regulation of Protein Ngb, HIF1 α During Cortex Cerebral Development After Treated with 2-Methoxyethanol.
10	2012	Subchronic, Chronic and Acute Toxicity specifically for Polysaccharides

		from <i>Coriolus versicolor</i> Mushroom Extract: Efforts to Explore the Potential of Biological Ingredients as Immunomodulators of the Immune Response Against <i>Mycobacterium tuberculosis</i> .
8	2011	Ekpresi Protein Vimentin, dan GFAP terhadap penipisan Jaringan Cerebral korteks dan Dampaknya Terhadap Penurunan Kecerdasan Otak Akibat Induksi 2-Methoxyethanol.
9	2009-2010	Expression of Vimentin, Neurofilament and GFAP Proteins on the Thinning of Cerebral Cortex Tissue and Its Impact on Decreased Brain Intelligence Due to 2-Methoxyethanol Induction.
10	2009	Bioactivity of Krestin Polysaccharide from <i>Coriolus versicolor</i> mushroom extract as an immunomodulator for immune responses due to <i>Mycobacterium tuberculosis</i> infection.
11	2008-2009	Performance of Holography Interferometer Based on Optical Reconstruction as Alternative Dental Imaging for Artificial Tooth Morphology.
12	2007-2008	Study of DNA's mitochondria molecular sequence of putting shrimp (<i>Panaeus vannamei</i>) in java: as an effort to search for the best quality shrimps which resistant to disease.
13	2007-2008	Neural Tube Defects (NTDs) Fetus Mencit (<i>Mus musculus</i>) Akibat Induksi 2-Methoxyethanol : a study on Amino Acid Sequence
14	2007	Perancangan sistem holografi digital berbasis laser sebagai alat alternative untuk dokumentasi dan diagnosis kerusakan gigi
15	2007	Khitosan sebagai penghambat apoptosis dan abnormalitas anggota depan fetus mencit akibat induksi asam retinoat
16	2006	Ekstrak Jamur (Krestine) Sebagai Penghambat Apoptosis dan Gangguan Otak Akibat Radiasi Sinar Gamma: Suatu Model Pencegahan Penyakit Degeneratif
17	2005	Pemanfaatan Ekstrak Jamur (Polysaccharide Krestine) Sebagai Penghambat Apoptosis dan mencegah Munculnya Kelainan Janin akibat Induksi 2-Methoxyethanol.
18	2003-2005	Anti oksidan Polysaccharide Krestine (PSK) sebagai penghambat apoptosis dan mencegah munculnya kelainan janin akibat induksi 2-methoxyethanol
19	2001-2004	Gangguan Migrasi dan Perkembangan Sel Saraf Pada Cerebrum dan Cerebellum Mencit Akibat Induksi 2-Methoxyethanol; Sebagai Model Mekanisme Kelainan Otak.
20	2000	Ekspresi protein penghambat calcineurin, ZAKI-4 mRNA pada otak akibat radiasi sinar X.
21	1999	Mekanisme kelainan posisi sel otak akibat radiasi sinar X

Publication

No.	Titel	Year
1	<p>The Effect of <i>G. applanatum</i> Crude Polysaccharide Extract on Proinflammatory Cytokines and Proapoptotic Caspases in HeLa Cell Line: An In Vitro Study. Qurrotu A'yun,¹ Raden Joko Kuncoroningrat Susilo,² Suhailah Hayaza,² Nur'aini Fikriyah,¹ Fina Syifa'una Musthoza,¹ Ufairanisa Islamatasya,¹ Aulia Umi Rohmatika,¹ Dwi Winarni,³ Sri Puji Astuti Wahyuningsih,³ Ruey-an Doong,⁴ Deya Karsari,⁵ Aristika Dinar Yanti,⁵ Mochammad Zakki Fahmi⁶, and Win Darmanto^{3,7} (Correspondence should be addressed to Win Darmanto; windarmanto@fst.unair.ac.id). <i>Advances in Pharmacological and Pharmaceutical Sciences</i> Volume 2023, Article ID 3593295, 9 pages https://doi.org/10.1155/2023/3593295. Hindawi.</p>	2023
2	<p>Effect of <i>Euphorbia hirta</i> Ethanol Extract on <i>Salmonella typhimurium</i>-infected Typhoid Fever in BALB/c mice. Fina Syifa'una Musthoza¹, Qurrotu A'yun. MA¹, Nur'aini Fikriyah¹, Choirus Zakinah², Risma Aprinda Kristanti², Raden Joko Kuncoroningrat Susilo⁴, Suhailah Hayaza⁴, Win Darmanto^{3,5*}. *Corresponding Author E-mail: windarmanto@fst.unair.ac.id. <i>Research J. Pharm. and Tech.</i> 16(4): April 2023</p>	2023
	<p>The Effect of <i>Ganoderma applanatum</i> Crude Polysaccharide Against a-Smooth Muscle Actin and Matrix Metalloproteinase-1 Expressions in Mice after Induced by Carbon Tetrachloride . Raden Joko Kuncoroningrat Susilo¹, Dwi Winarni², Suhailah Hayaza¹, Sri Puji Astuti Wahyuningsih², Ruey-an Doong³, Win Darmanto^{2,5*} and Bilqis Inayatillah⁴. (Corresponding Author). <i>Biomedical & Pharmacology Journal</i>, March 2023. Vol. 16(1)</p>	
3	<p>The efficacy of a chicken antibody for the development of immunoassay-based rapid detection in sugarcane mosaic virus disease . Nurmalasari Darsono^{1,2}, Widhi Dyah Sawitri³, Retnosari Apriasti⁴, Agus Heri Setyo Wahyudi⁵, Putri Andreyana Saragi⁶, Vic-torin Mega Putri⁶, Sugiharto^{1,6}, Win Darmanto^{1,6,*} (Corresponding Author). <i>Indonesian Journal of Biotechnology</i> VOLUME 28(1), 2023, 31-36</p>	2023
4	<p>Effect of the Ethanol Extract of Red Okra Pods (<i>Abelmoschus esculentus</i> (L.) Moench) to Inhibit Cervical Cancer Cells Growth through Cell Cycle-Associated Oncogenes. Nabilatun Nisa,¹ Sri Puji Astuti Wahyuningsih,¹</p>	2022

	Win Darmanto, ¹ Putut Rakhmad Purnama, ² Firli Rahmah Primula Dewi, ¹ Tipuk Soegiarti, ¹ and Deya Karsari. ³ Scientifica, vol. 2022 (Co-author)	
5	Effect of crude <i>Ganoderma applanatum</i> polysaccharides as a renoprotective agent against carbon tetrachloride-induced early kidney fibrosis in mice. Raden Joko Kuncoroningrat Susilo ¹ , Dwi Winarni ¹ , Suhailah Hayaza ¹ , Ruey-An Doong ^{1,2} , Sri Puji Astuti Wahyuningsih ¹ and Win Darmanto ^{1,3} . (Corresponding Author) Veterinary World, EISSN: 2231-0916. Available at www.veterinaryworld.org/Vol.15/April-2022/28.pdf .	2022
6	Dual role of immunomodulation by crude polysaccharide from okra against carcinogenic liver injury in mice. Suhailah Hayaza ^{a,b} , Sri Puji Astuti Wahyuningsih ^b , Raden Joko Kuncoroningrat Susilo ^{a,b} , Saikhu Akhmad Husen ^b , Dwi Winarni ^b , Ruey-an Doong ^{b,c} , Win Darmanto ^{a,b,*} (Corresponding Author) Heliyon. 2021: 7(2). journal homepage: www.cell.com/heliyon	2021
8	Erbium-doped graphene quantum dots with up- and down-conversion luminescence for effective detection of ferric ions in water and human serum. Trung Viet Huynh ^a , Nguyen Thi Ngoc Anh ^b , Win Darmanto^c , Ruey-An Doong ^{a,d,*} . Sensors & Actuators: B. Chemical 328 (2021) 129056	2021
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10	Adverse Effects of Mercury Exposure in DDW Strain Mice during Organogenesis. Win Darmanto^{1*} , Saikhu Akhmad Husen ² , Raden Joko Kuncoroningrat Susilo ³ , Suhailah Hayaza ³ , Ruey-an Doong ^{4,5} , Hunsu Punnapayak ⁶ . Indian Journal of Forensic Medicine & Toxicology, 30-04-2020	2020
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- Disturbed Purkinje cell migration and abnormal foliation of the rat cerebellum caused by prenatal exposure to X-radiation. 1998. Proceeding of the 41th Annual Meeting of the Japan Radiation Research Society ;149
- Disturbed Purkinje cells migration due to reduced expression of Reelin by X-irradiation in developing rat cerebellum. 1998. Symposium Space Medicine; Nagoya, Japan
- Effects of X-radiation on the development of cerebellar cortex on rat. 1998. International Symposium on Environmental Medicine : Current Activities in Space Biomedical Research, Nagoya, Japan

Name	<i>Edy Setiti Wida Utami</i>
Post	<i>Plant Embryology, Plant Tissue Culture, Biotechnology</i>
Academic career	<p><i>Doctorate (Plant Embryology) Gadjah Mada Univ 2009</i></p> <p><i>Graduate (Plant Tissue Culture) Gadjah Mada Univ 1990</i></p> <p><i>Undergraduate degree (Economic Plant Anatomy) Gadjah Mada Univ 1983</i></p>
Employment	<i>Profesor Airlangga University 2019-now</i>
Research and development projects over the last 5 years	<p><i>Name of project or research focus</i></p> <p><i>Period and any other information</i></p> <p><i>Partners, if applicable</i></p> <p><i>Amount of financing</i></p>
Industry collaborations over the last 5 years	<p><i>No data</i></p> <p><i>No data</i></p>
Patents and proprietary rights	<i>No data</i>
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. <i>Effect of 2,4-dichlorophenoxyacetic acid (2,4-D) and kinetin on callus induction and growth of Physalis angulata L. leaf explants. Galuh Ayu Chantika Dwitara , Sucipto Hariyanto , Hery Purnobasuki , Junairiah , and Edy Setiti Wida Utami. Open Access Research Journal of Biology and Pharmacy, 2023, 08(02): 027–032.</i> 2. <i>Enhancing fruit quality of three Physalis sp. Throughout foliar nutrition. Diana Nurus Sholehah, Eko Setiawan, Dini Ermavitalini, Miratul Khasanah, Edy Setiti Wida Utami, Sucipto Hariyanto, Hery Purnobasuki. Plant, Soil and Environment, 2022, 68 (5): 231–236</i> 3. <i>The effect combination of growth regulator 2,4D and kinetin on callus induction from Elephantopus scaber leaf. Junairiah, Ariana Sri Rejeki and Edy Setiti Wida Utami. Eco. Env. & Cons. 2021, 27 (August Suppl. Issue) : S350-S354</i> 4. <i>Callus induction and secondary metabolite profile from Elephantopus scaber L. Junairiah, Diah Ayu Wulandari, Edy Setiti Wida Utami, Nabilah Istighfari Zuraidassanaaz. Journal of Tropical Biodiversity and Biotechnology. 2021, 06 (01): 1-11.</i> 5. <i>Optimization of Auxin and Cytokinin on Enhanced Quality and Weight of Coffea liberica Somatic Embryos. Fitria Ardiyani, Edy Setiti Wida Utami, and Hery Purnobasuki. Pelita Perkebunan. 2021, 37 (1): 1–12.</i> 6. <i>GENETIC DIVERSITY AND NETWORK WITHIN DESSERT BANANAS (MUSA ACUMINATA CV. AA AND AAA) INFERRED BY NEWLY DESIGNED MATK MARKER. Sucipto HARIYANTO, Rojaunnajah Kartika AINIYAH, Edy Setiti</i>

	<p>Wida Utami, Lia HAPSARI. INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE, 2021, 12 (2): 585-598.</p> <ol style="list-style-type: none"> 7. <i>Development and regeneration of somatic embryos from leaves-derived calli of Coffea liberica. FITRIA ARDIYANI, Edy Setiti Wida Utami, HERY PURNOBASUKI, SENJA APRILIA PARAMITA, B I O D I V E R S I T A S, 2020, 21(12): 5829-5834.</i> 8. <i>DNA barcoding: Study of Bananas (Musa spp.) Wild and cultivars group from East Java inferred by rbc L gene sequences. Rojaunnajah Kartika Ainiyah, Verina Wahyunindita, Windi Nur Pratama, Intan Ayu Pratiwi, Edy Setiti Wida Utami and Sucipto Hariyanto, Eco. Env. & Cons. 2020, 26 (April Suppl. Issue) : S7-S13.</i> 9. <i>Organic Compounds: Contents and Their Role in Improving Seed Germination and Protocorm Development in Orchids. Edy Setiti Wida Utami and Sucipto Hariyanto, International Journal of Agronomy. 2020, Vol 2020, 1-12.</i> 10. <i>Effects of 2,4-dichlorophenoxy acetic acid and 6-benzylaminopurine on callus induction and secondary metabolites of Elephantopus scaber L. unairiah, Fransisca Dewi Maya and Edy Setiti Wida Utami. Eco. Env. & Cons. 2020. 26 (4) : 1869-1875.</i> 11. <i>Seed Morphometry of Native Indonesian Orchids in the Genus Dendrobium. Sucipto Hariyanto , Intan Ayu Pratiwi, and Edy Setiti Wida Utami. Scientifica. 2020. Vol 2020. 1-14</i> 12. <i>The optimization mesophyll protoplast isolation for Phalaenopsis amboinensis J.J.Sm. Machmudi., Edy Setiti Wida Utami., Purnobasuki, H. 2019. Bulgarian Journal of Agricultural Science. 25(4): 737-743.</i> 13. <i>Phenology of Inflorescences of Dendrobium antennatum Lindl. Lilanaya, R.I., Edy Setiti Wida Utami., Purnobasuki, H. 2019. International Journal of Recent Technology and Engineering. 7(682): 462-465.</i> 14. <i>In vitro seed germination and seedling development of rare Indonesian native orchid Phalaenopsis amboinensis J.J.Sm. Edy Setiti Wida Utami., Hariyanto, S. 2019. Scientifica. 2019: 1-7</i> 15. <i>Effect of plant growth regulator and explant types on in vitro callus induction of Gynura procumbens (Lour.) Merr. Amin Nurokhman, Hanik Faizah, Sugiharto, Edy Setiti Wida Utami, Yosephine Sri Wulan Manuhara. 2019. Research Journal of Biotechnology. 14(9): 102-107.</i> 16. <i>Callus Induction of Piper betle Var Nigra Using 2,4-Dichlorofenoxyacetic Acid and 6-Benzil Aminopurin. Junairiah, Purnomo, Edy Setiti Wida Utami, Ni'matuzahroh, Lilis Sulistyorini. 2018. Biosaintifika 10 (3) (2018) 588-596</i> 17. <i>Agrobacterium tumefaciens-mediated transformation of Dendrobium lasianthera J.J.Sm: An important medicinal orchid. Edy Setiti Wida Utami, Hariyanto S, Manuhara YSM. 2018. Journal of Genetic Engineering and Biotechnology. 16(2018): 703-709.</i> 18. <i>Influence of Combination of Sucrose Concentration and Immersion Frequency on Biomass and Flavonoid Production of Gynura procumbens (Lour.) Merr Callus Culture in Temporary Immersion Bioreactor. Amin Nurokhman, Nadia Anisa Tahani, Hanik Faizah, Edy Setiti Wida Utami, Yosephine Sri Wulan Manuhara. 2018. Sch. Acad. J. Biosci. 6(12): 748-754</i>
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	<p>19. Production of biomass and flavonoid of <i>Gynura procumbens</i> (Lour.) Merr shoots culture in temporary immersion system. Pramita AD, Kristanti AN, Sugiharto, Edy Setiti Wida Utami., Manuhara YSW. 2018. <i>Journal of Genetic Engineering and Biotechnology</i> 16(2018): 639-643.</p> <p>20.</p>
Activities in specialist bodies over the last 5 years	<p><i>Organisation</i> <i>Role</i> <i>Period</i></p> <p><i>Membership without a specific role need not be mentioned</i></p>

Staff Handbook

Name	Alfiah Hayati		
Post	Zoology, Animal reproduction & animal physiology		
Academic career	Doctorate (Biology)	Universitas Gadjah Mada	2003-2007
	Graduate (Reproductive Health Sciences)	Universitas Airlangga	1997-2000
	Undergraduate degree (Biology)	Universitas Airlangga	1983-1987
Employment	Proffessor	Universitas Airlangga	2021-now
Research and development projects over the last 5 years	<p>Name of project or research focus:</p> <ol style="list-style-type: none"> 1. The Impact of Environmental Pollution (Heavy Metals, Microplastics, and Nanoplastics) on the Reproductive Health and Immune Response of Fish and Recovery with Supplementary Feeds (Herbal and Probiotics) (2019-2022) 2. The Impact of Microplastics and Nanoplastics on the Health of Rats (Biochemical and Molecular) and Recovery Using Antioxidants (Medicinal Plants) (2022-2023) 		
Industry collaborations over the last 5 years	Project title Partners		
Patents and proprietary rights	Title	Year	
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Supplementary Feed Potential on Histology and Immune Response of Tilapia (<i>Oreochromis niloticus</i> L.) Exposed to Microplastics Potensi Makanan Tambahan ke atas Histologi dan Tindak Balas Imun Tilapia (<i>Oreochromis niloticus</i> L.) Terdedah kepada Mikroplastik; Hayati, A., Pramudya, M., Soepriandono, H., ...Mughtaromah, B., Mwendolwa, A.A.; Sains MalaysianaThis link is disabled., 2023, 52(6), pp. 1607–1617 2. Potential of Red Seaweed (<i>Dichotomania obtusata</i>) on Immune Response and Histopathology of Rat Testis Exposed to Nanoplastics; Triwahyudi, H., Soehargo, L., Muniroh, L., ...Mughtaromah, B., Hayati, A. Tropical Journal of Natural Product ResearchThis link is disabled., 2023, 7(5), pp. 2969–2973 3. Assessing the recovery of steroid levels and gonadal histopathology of tilapia exposed to polystyrene particle pollution by supplementary feed; Hayati, A., Pramudya, M., Soepriandono, H., ...Adriansyah, W., Dewi, F.R.P. Veterinary WorldThis link is disabled., 2022, 15(2), pp. 517–523 4. Effects of Medicinal Plants Rhizome on Growth Performance of Tilapia (<i>Oreochromis niloticus</i>) Exposed to Micro Plastics; Hayati, A., Pramudya, M., Soepriandono, H., ...Wahyuni, A.D., Primula Dewi, F.R. AIP Conference ProceedingsThis link is disabled., 2022, 2554, 090012 5. Potential of feed supplements on morphometric and gonad weight of fish exposed to microplastics; A'Yun, Q., Musthoza, F.S., Supartini, S., ...Suprapti, N., Hayati, A. IOP Conference Series: Earth and Environmental ScienceThis link is disabled., 2022, 1036(1), 		

	<ol style="list-style-type: none"> 6. The ability of probiotics to ameliorate blood and gonad damage caused by copper toxicity in Nile tilapia (<i>Oreochromis niloticus</i>); Hayati, A., Pramudya, M., Soepriandono, H. <i>Veterinary World</i>This link is disabled., 2021, 14(11), pp. 2964–2970 7. The effect of diet supplement on <i>Oreochromis niloticus</i> (L.) morphometrics in environments contaminated with Cadmium; Hayati, A., Pramudya, M., Supriyanto, A., ...Zahra, P.F., Hayaza, S. <i>IOP Conference Series: Earth and Environmental Science</i>This link is disabled., 2021, 718(1), 012005 8. Toxicity of copper pollution on sperm quality of <i>Cyprinus carpio</i>; Pramudya, M., Hayati, A., Armando, D.S., ...Faridah, N., Susilo, R.J.K. <i>IOP Conference Series: Earth and Environmental Science</i>This link is disabled., 2021, 718(1), 012019
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. Basic Instructional Skills (PEKERTI) for Lecturers at Private and State Universities, Directorate of Innovation and Educational Development, Airlangga University (2016-now) Speaker 2016 until now 2. Applied Approach (AA) for Lecturers at Private and State Universities, Directorate of Innovation and Educational Development, Airlangga University Speaker 2016 until now 3. The National Science Olympiad (OSN)/National Biology Olympiad (KSN) for Senior High School (SMA) level, East Java Province Development team 2010 until 2022 4. The National Mathematics and Natural Sciences Competition, in the field of Biology, National Achievement Center, Ministry of Education, Culture, Research, and Technology, Jakarta Development & Jury team 2016 until now

Staff Handbook

Name	<i>Prof. Hery Purnobasuki, MSi., PhD.</i>		
Post	<ol style="list-style-type: none"> 1. <i>Cell Biology</i> 2. <i>Plant Morphogenesis</i> 3. <i>Plant Structure and Development</i> 4. <i>Plant Embryology</i> 5. <i>Plant Development</i> 6. <i>Plant Physiology</i> 7. <i>Plant Reproduction of Spermatophyte</i> 8. <i>Microtechnique</i> 		
Academic career	<i>Bachelor of Science (Biology, Bachelor of Science)</i>	<i>Faculty of Mathematics and Natural Science,</i>	<i>1990</i>
	<i>Mater of Science (Biology)</i>	<i>Airlangga University Department of</i>	<i>1995</i>
	<i>Doctorate (Biology)</i>	<i>Biology, ITB Biological Institute, Faculty of Science, TOHOKU University Japan</i>	<i>2021</i>
Employment	Position	Employer	Period
	<i>Lecturer (Faculty member of Faculty Science and Technology Universitas Airlangga)</i>	<i>Professor of Biology</i>	<i>1990-now</i>
	<i>Head of Biology Department, Mathematics and Natural Science, FMIPA Universitas Airlangga</i>		<i>2007-2007</i>
	<i>Head of Academic Affairs FMIPA/FST Universitas Airlangga</i>		<i>2007-2010</i>
	<i>Vice Dean III of FST Universitas Airlangga</i>		<i>2010-2015</i>
	<i>Head of Research and Innovation Institute of Universitas Airlangga</i>		<i>2015-2020</i>
	<i>Head of Institute of Innovation, Journal Development, Publishing and IPR</i>		<i>2020-2025</i>

Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. <i>Production, isolation, and bioactivity testing of active compounds from tempuyung (Sonchus arvensis L.) tissue culture: an attempt to produce medicinal compounds by tissue culture (International Research Scheme Collaboration Universitas Airlangga Year 2022 – Rp. 150.000.000/year)</i> 2. <i>Application of fertilization to Physalis sp to increase fruit production and quality as an effort to support food security in coastal areas of Madura (Faculty Excellence Research – Rp. 50.000.000/year)</i> 3. <i>Application of Molecular Markers and Root Architecture of Tobacco Plants under Inundation Stress in Support of Sustainable Agriculture(PDUPT – Rp. 100.000.000/year)</i> 4. <i>Botanical, molecular and metabolite profile evaluation of forage plants for honey-producing insects in Indonesia: Efforts to find quality bee food sources and plant conservation (Indonesia Research Collaboration – Rp. 200.000.000/year)</i> 5. <i>Proteomic Analysis of Citronella Leaves (Cymbopogon nardus L.) Against the Fungus Curvularia andropogonis Causing Red Spot Disease as an Indicator of Increased Pathogen Resistance (PDD – Rp. 60.000.000/year)</i> 6. <i>The exploration of Sonchus arvensis L. for phytochemical screening and anti-dengue fever (DHF) (Satu Joint Research - Rp. 70.000.000/year)</i> 7. <i>Analysis of secondary metabolite profiles and expression of pathogenesis related-17 (PR-17) as a resistance compound of citronella leaves (Cymbopogon nardus L.) against Culvularia andropogonis, the cause of red spot disease. (Airlangga Article Review – Rp. 50.000.000/year)</i> 																
Industry collaborations over the last 5 years	-																
Patents and proprietary rights	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Title</th> <th style="text-align: left;">Year</th> </tr> </thead> <tbody> <tr> <td>1. <i>A method of developing rose (Rosa hybrid L. hybride tea purple) shoot leaf callus by light elicitation to increase essential oil content. (P00201503612)</i></td> <td>2015</td> </tr> <tr> <td>2. <i>Gandarusa (Justicia gendarussa Burm. F.) callus culture medium for male contraceptive material. (P00201508301)</i></td> <td>2015</td> </tr> <tr> <td>3. <i>Forest honey formulation to induce stem cells to treat infertility. (S00202214413)</i></td> <td>2022</td> </tr> <tr> <td>4. <i>Formulation of hypoxia preconditioning in vitro culture to induce stem cell pluripotency and its manufacturing process (P00202212591)</i></td> <td>2022</td> </tr> <tr> <td>5. <i>Formulation and manufacturing process of low oxygen tension in late passage stem cell in vitro culture to maintain viability (P00202212557)</i></td> <td>2022</td> </tr> <tr> <td>6. <i>Overview of Mangrove Forest Perspectives (copyright - EC00202373505)</i></td> <td></td> </tr> <tr> <td>7. <i>Developing Plant Anatomy as an Interesting and Useful Biology Study in Various Aspects of Life (copyright - EC00202374140)</i></td> <td>2023</td> </tr> </tbody> </table>	Title	Year	1. <i>A method of developing rose (Rosa hybrid L. hybride tea purple) shoot leaf callus by light elicitation to increase essential oil content. (P00201503612)</i>	2015	2. <i>Gandarusa (Justicia gendarussa Burm. F.) callus culture medium for male contraceptive material. (P00201508301)</i>	2015	3. <i>Forest honey formulation to induce stem cells to treat infertility. (S00202214413)</i>	2022	4. <i>Formulation of hypoxia preconditioning in vitro culture to induce stem cell pluripotency and its manufacturing process (P00202212591)</i>	2022	5. <i>Formulation and manufacturing process of low oxygen tension in late passage stem cell in vitro culture to maintain viability (P00202212557)</i>	2022	6. <i>Overview of Mangrove Forest Perspectives (copyright - EC00202373505)</i>		7. <i>Developing Plant Anatomy as an Interesting and Useful Biology Study in Various Aspects of Life (copyright - EC00202374140)</i>	2023
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	<ol style="list-style-type: none"> 8. <i>Plant Embryology Practicum Assistance Material: Pollen Morphology</i> (copyright - EC002023106417) 9. <i>Practicum on Reproduction of Seed Plants Based on Observation and Simple Experiments during Pandemic 2021</i> (copyright - EC002023106418) 10. <i>Photo art of Batik Pattern Design of Plant Tissue Structure</i> (copyright - EC002023111327) 11. <i>Publication and Citation Management of LIPJPHKI Universitas Airlangga</i> (copyright - EC002023111330) 12. <i>Udeng & Batik Photo Art Airlangga</i> (copyright - EC002023111334)
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Suryani Dyah Astuti, Irawan Budi Utomo, Ernie Maduratna Setiawatie, Miratul Khasanah, Hery Purnobasuki, Deny Arifianto & Kartika Anggraini Alamsyah. 2021. <i>Combination effect of laser diode for photodynamic therapy with doxycycline on a wistar rat model of periodontitis. BMC Oral Health 21(80): ISSN: 1472-6831. DOI: 10.1186/s12903-021-01435-0</i> 2. Hery Purnobasuki, Sucipto Hariyanto and Putut Rakhmad Purnama. 2021. <i>Genetic diversity of seagrass Thalassia hemprichii and Enhalus acoroides in coastal area of East Java. Jordan Journal of Biological Sciences 14(1): 111-119. ISSN: 2307-7166. DOI: 10.54319/jjbs/140115</i> 3. Hery Purnobasuki, Tutik Nurhidayati, Sucipto Hariyanto and Nur Khunainah Wahyuni. 2021. <i>Response of Nicotiana tabacum plant under waterlogging stress during vegetative stage. Ecology, Environment and Conservation 27: 31-36. ISSN: 0971-765X</i> 4. Tutik Nurhidayati, Siti Nur A., Hery Purnobasuki, Endang Purwanti S. and Wirdatul Muslihatin. 2021. <i>Effect of photoperiod and stress physiological nutrients (N and Si) on the growth and lipid content of microalgae Skeletonema costatum. Ecology, Environment and Conservation 27: 38-43. ISSN: 0971-765X</i> 5. Muhammad E. Nurrahmawan, Dwi Oktafitria, Hery Purnobasuki, Dini Ermavitalini, and Nurul Jadid. 2021. <i>In vitro shoot micropropagation of Gracilaria verrucosa using plant growth dual regulators. AACL Bioflux 14(2): 655-663. ISSN: 1844-8143</i> 6. Nurul Jadid, Indah Prasetyowati, Nur Laili Alfina Rosidah, Dini Ermavitalini, Sri Nurhatika, Tutik Nurhidayati and Hery Purnobasuki. 2021. <i>In silico analysis of partial fatty acid desaturase 2 cDNA from Reutealis trisperma (blanco) airy shaw. Bioinformatics and Biology Insights 15: 1–8. ISSN: 1177-9322. DOI: 10.1177/11779322211005747</i> 7. Fitria Ardiyani, Edy Setiti Wida Utami dan Hery Purnobasuki. 2021. <i>Optimization of auxin and cytokinin on enhanced quality and weight of Coffea liberica somatic embryos. Pelita Perkebunan 37(1): 1-12. ISSN: 0215-0212</i> 8. Diana Nurus Sholehah, Sucipto Haryanto and Hery Purnobasuki. 2021. <i>Flower appearance of six Physalis ixocarpa genotype. AIP Conference Proceedings 2353, 030006: 1-5. ISSN: 0094-243X.</i> 9. Tutik Nurhidayati, Wanda Y. Safitri, Hery Purnobasuki and Sucipto Hariyanto. 2021. <i>Response of tobacco (Nicotiana tabacum L.) under waterlogging stress</i>

- based on agronomic characters. *AIP Conference Proceedings* 2349, 020019. ISSN: 0094-243X.
10. Suryani D. Astuti, Mohammad H. Tamimi, Anak A.S. Pradhana, Kartika A. Alamsyah, Hery Purnobasuki, Miratul Khasanah, Yunus Susilo, Kuwat Triyana, Muhammad Kashif and Ardiyansyah Syahrom. 2021. Gas sensor array to classify the chicken meat with *E. coli* contaminant by using random forest and support vector machine. *Biosensors and Bioelectronics: X* ISSN: 2590-1370. DOI: 10.1016/j.biosx.2021.100083
 11. Erma Safitri and Hery Purnobasuki. 2021. Effectiveness of mesenchymal stem cells cultured under hypoxia to increase the fertility rate in rats (*Rattus norvegicus*). *Veterinary World*, 14(11): 3056-3064. ISSN: 0972-8988. DOI: 10.14202/vetworld.2021.3056-3064
 12. Dwi Kusuma Wahyuni, Shilfiana Rahayu, Andi Hamim Zaidan, Wiwied Ekasari, Sehanat Prasongsuk, and Hery Purnobasuki. 2021. Growth, secondary metabolite production, and in vitro antiplasmodial activity of *Sonchus arvensis* L. callus under dolomite [CaMg(CO₃)₂] treatment. *PLOS One*. ISSN: 1932-6203. DOI: 10.1371/journal.pone.0254804
 13. Diana Nurus Sholehah, Sucipto Hariyanto and Hery Purnobasuki. 2021. Fruit development of groundcherry (*Physalis angulata* L.) in dryland. *Australian Journal of Crop Science* 15(8), pp. 1186-119. ISSN: 1835-2693. DOI: 10.21475/ajcs.21.15.08.p3318
 14. Dini Ermavitalini, Siska Yulia Rukhmana, Thalita Meidina, Leonardo Pascalis Dimas Cahyo Baskoro, Triono Bagus Saputro, Ni'matuzahroh and Hery Purnobasuki. 2021. Astaxanthin-producing microalgae identification using 18S rRNA: Isolates from Bangkalan Mangrove Waters and Sowan Tuban Northern Waters, East Java, Indonesia. *Journal of Tropical Biodiversity and Biotechnology* 6(3): jtbb64882. ISSN: 2540-9573. DOI: 10.22146/jtbb.64882
 15. Tutik Nurhidayati, Hery Purnobasuki, Sucipto Hariyanto and Vita Siti Fatimah. 2021. The dynamics of expression of xyloglucan endotransglucosylase / hydrolase (xth) and lateral root primordium 1 (Lrp1) genes and physiological responses of several tobacco varieties (*Nicotiana tabacum* L.) in flooding stress. *International Conference and Indonesia Biologi Consortium Congress 2021*. Manokwari, 24-25 November 2021.
 16. Suryani Dyah Astuti, Age Sulisty, Ernie Maduratna Setiawatie, Miratul Khasanah, Hery Purnobasuki, Deny Arifanto, Yunus Susilo, Kartika Anggraini Alamsyah, Suhariningsih and Ardiyansyah Syahrom. 2022. An in-vivo study of photobiomodulation using 403 nm and 649 nm diode lasers for molar tooth extraction wound healing in wistar rats. *Odontology* 110(2): 240-253. ISSN: 1618-1247. DOI: 10.1007/s10266-021-00653-w
 17. Diana Nurus Sholehah, Dini Ermavitalini, Miratul Khasanah, Edy Setiti Wida Utami and Hery Purnobasuki. 2022. Effect of foliar nutrients application to the growth and yield of *Physalis peruviana* and *Physalis alkekengi*. *IOP Conference Series: Earth and Environmental Science* 978, 012003: 1-5. ISSN: 1755-1307. DOI: 10.1088/1755-1315/978/1/012003
 18. Mulyadi Tanjung, Tjitjik Srie Tjahjandarie, Ratih Dewi Saputri, Muhammad Fajar Aldin and Hery Purnobasuki. 2022. Two new pyranoxanthones from the stem bark of *Calophyllum pseudomolle* P.F. Stevens. *Natural Product Research* 36(3): 822-827. ISSN: 1478-6419. DOI: 10.1080/14786419.2020.1808638

19. Hery Purnobasuki, Sarno and Ade Hermawan. 2022. Litter fall and decomposition of mangrove species *Avicennia marina* in Surabaya East Coast, Indonesia. *Pakistan Journal of Botany* 54(4): 1-5. ISSN: 0556-3321. DOI: 10.30848/PJB2022-4(45)
20. Hery Purnobasuki, Ferry Efendy, Imamatul Khair, Dessy Harisanty, dan Diyah Alinia Oktariningtias. 2022. *Journals Profiles and Update*. Airlangga University Press (AUP). Surabaya. ISBN: 978-602-473-820-4. 77 hal.
21. Mochammad Ilham, Siti Rizqiyatul Mukarromah, Galuh Ayu Rakashiwi, Dani Tri Indriati, Bruni Flaranda Yoku, Putut Rakhmad Purnama, Junairiah, Sehanat Prasongsuk, Hery Purnobasuki and Dwi Kusuma Wahyuni. 2022. Morpho-anatomical characterization and DNA barcoding of *Achillea millefolium* L. *Biodiversitas* 23(4): 1958-1969. ISSN: 1412-033X. DOI: 10.13057/biodiv/d230430.
22. Erma Safitri and Hery Purnobasuki. 2022. Aplikasi Madu sebagai Aktivator Stem Cell. Airlangga University Press (AUP), Surabaya. ISBN: 978-602-473-830-3. 278 hal.
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41. (<https://doi.org/10.12688/f1000research.124919.1>)
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	<p><i>honey bee Apis dorsata in Belitung Regency. HAYATI Journal of Biosciences 30(6): 1167-1174. ISSN: 1978-3019. DOI:10.4308/hjb.30.6.1167-1174</i></p> <p>52. Galuh Ayu Chantika Dwitara, Sucipto Hariyanto, Hery Purnobasuki, Junairiah and Edy Setiti Wida Utami. 2023. <i>Effect of 2,4-dichlorophenoxyacetic acid (2,4-D) and kinetin on callus induction and growth of Physalis angulata L. leaf explants. Open Access Research Journal of Biology and Pharmacy, 2023, 08(02), 027–032. ISSN: 2782-9979. DOI url: https://doi.org/10.53022/oarjbp.2023.8.2.0027</i></p> <p>53. Diana Retnosari, Hery Purnobasuki & Agus Supriyanto. 2023. <i>Antimalarial activity of crude bark extract of Pterocarpus indicus Willd. against Plasmodium falciparum Strain 3D7. Tropical Journal of Natural Product Research 7(9): 3893-3897. ISSN: 2616-0684. http://www.doi.org/10.26538/tjnpr/v7i9.6</i></p> <p>54. Rofiatun Solekha, Ni Nyoman Tri Puspaningsih, Putri Ayu Ika Setiyowati, Sri Bintang Sahara Mahaputra Kusumanegara, Fatan Mujahid & Hery Purnobasuki. 2023. <i>The effect in vivo and in silico citronella grass extract (Cymbopogon nardus L.) on the plasma ACE inhibitory activity and antihypertensive effect. Research Journal of Pharmacy and Technology 16(10):4487-4492. DOI: 10.52711/0974-360X.2023.00731</i></p> <p>55. Arif Nur Muhammad Ansori, Ahmad Affan Ali Murtadlo, Viol Dhea Kharisma, Bayyinatul Muchtaromah, Muhammad Badrut Tamam, Dora Dayu Rahma Turista, Imam Rosadi, Vikash Jakhmola, Tarun Parashar, Taru Saklani, Maksim Rebezov, Rahadian Zainul, Hery Purnobasuki, Amaq Fadholly, Muhammad Khaliim Jati Kusala. 2023. <i>A spotlight on gamma-mangostin: Exploring its potential as antiviral agents. Journal of Medicinal and Pharmaceutical Chemistry Research ISSN: 2981-0221</i></p>						
Activities in specialist bodies over the last 5 years	<table border="1"> <thead> <tr> <th data-bbox="539 1200 794 1234">Organisation</th> <th data-bbox="794 1200 1086 1234">Role</th> <th data-bbox="1086 1200 1430 1234">Period</th> </tr> </thead> <tbody> <tr> <td colspan="3" data-bbox="539 1285 1430 1319"><i>Membership without a specific role need not be mentioned</i></td> </tr> </tbody> </table>	Organisation	Role	Period	<i>Membership without a specific role need not be mentioned</i>		
Organisation	Role	Period					
<i>Membership without a specific role need not be mentioned</i>							

Staff Handbook

Name	Dr. Salamun, Drs., M.Kes.		
Post	<ol style="list-style-type: none"> 1. <i>Biology</i> 2. <i>Microbiology</i> 3. <i>Applied Microbiology</i> 		
Academic career	<p><i>Doctoral (Biology)</i></p> <p><i>Master of Medical Science (Microbiology and Parasitology)</i></p> <p><i>Undergraduate (Biology)</i></p>	<p><i>Faculty of Science and Technology, Universitas Airlangga</i></p> <p><i>Faculty of Medicine, Universitas Gadjah Mada</i></p> <p><i>Faculty of Mathematic and Natural Sciences, Universitas Airlangga</i></p>	<p>2020</p> <p>1993</p> <p>1986</p>
Employment	<p>Position</p> <p><i>Lecturer</i></p> <p><i>Department of Biology, Faculty of Science and Technology, Universitas Airlangga</i></p> <p><i>Surabaya, Indonesia</i></p>	<p>Employer</p> <p><i>Senior lecturer, Associate Professor in the Faculty of Science and Technology, Universitas Airlangga</i></p>	<p>Period</p> <p>2006 - Now</p>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. <i>Efforts to Develop Microbial Biocide Formulas: Synergistic Study and Consortium of Local Isolates of Bacillus Species as Antimicrobial Biological Agents. 2023. University Basic Research. IDR=48.815.000</i> 2. <i>DEVELOPMENT OF LOCAL BIOINSECTICIDE PRODUCTS: Biosurfactant production and detection of genes encoding surfactin biosynthesis in Bacillus spp. local, Efforts to develop biological control materials for plant disease and pest vectors. 2022. Internal Research. IDR=40000000</i> 3. <i>DEVELOPMENT OF LOCAL BIOINSECTICIDE PRODUCTS: Genetic Nationality of Local Entomopathogens Bacillus spp. and Its potential as a bioinsecticide in the biological control of plant pests. 2021. Internal Research. IDR=40000000</i> 4. <i>DEVELOPMENT OF LOCAL BIOINSECTICIDE PRODUCTS: Residual Toxicity of Local Entomopathogen Bacillus sp. LS9.1, EG6.4, and BK5.2 in Aedes aegypti Mosquito Breeding Sites and Safety Tests against Non-target Organisms. 2020. Doctoral Dissertation Research. IDR=60000000</i> 5. <i>DEVELOPMENT OF LOCAL BIOINSECTICIDAL PRODUCTS: Detection of Parasporal Toxin Structure of Local Entomopathogen Bacillus sp. and Test</i> 		

	<p>its Pathogenicity against Non-target Organisms. 2020. Internal Research. IDR=40000000</p> <p>6. BIOINSECTICIDAL PRODUCT DEVELOPMENT: Detection of Cry Genes and Genetic Characteristics of Local Entomopathogen <i>Bacillus</i> sp. as well as its Toxicity Test as a Dengue Hemorrhagic Fever Vector Biolarvicide. 2020. Internal Research. IDR=40000000</p>
Industry collaborations over the last 5 years	<p>No data</p> <p>No Data</p>
Patents and proprietary rights	No Data
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. <i>Diversity of Indigenous Entomopathogenic Bacilli from Domestic Breeding Sites of Dengue Hemorrhagic Fever Vector Based on the Toxicity against <i>Aedes aegypti</i> Larvae.</i> Salamun, Ni'matuzahroh, Fatimah, M. I. F. Maswantari, M.U. Rizka, T. Nurhariyati and A. Supriyanto. <i>Eco. Env. & Cons.</i> 26 (April Suppl. Issue): 2020; pp. (20-25) 2. <i>Prospect of Native Entomopathogenic Bacilli from Baluran National Park as Biological Control of Dengue Fever Vector.</i> Salamun, Ni'matuzahroh, Fatimah, Vicky Findawati, Rizky Danang Susetyo, Nadiah Al-Batati, Tri Nurhariyati and Agus Supriyanto. <i>Annals of Biology</i> 36 (2): 232-237, 2020 3. <i>Characteristics of native entomopathogenic <i>Bacillus</i> sp. BK5.2 as an environmentally friendly potential agent for disease vectors and plant diseases control.</i> Salamun, Ni'matuzahroh, Fatimah, Izdihar Tsana, Nadiah Al-Batati and Imro Atul Kasanah. <i>Eco. Env. & Cons.</i> 26 (4) 2020 pp 1852-1857. 4. <i>Exploration of Proteolytic Bacteria from Mangrove Center Tuban Soil.</i> Fatimah, Zahrotul Jannah, Fatichatus Suroiyah, Azzah, Salamun, Tri Nurhariyati and Tini Surtiningsih. <i>Annal of Biology</i>, Vol. 36(No. 2): hal. 267-271, April 2020 5. <i>Larvicidal toxicity and parasporal inclusion of native <i>Bacillus thuringiensis</i> BK5.2 against <i>Aedes aegypti</i>.</i> Salamun, Fatimah, Ahmad Fauzi, Seling N. Praduwana and Ni'matuzahroh. <i>J Basic Clin Physiol Pharmacol</i> 2021; 32(4): 379–384 6. <i>Biosurfactant activity of indigenous <i>Bacillus</i> sp. ES4.3 isolated from endemic breeding sites of dengue hemorrhagic fever vector in Surabaya, East Java, Indonesia.</i> Farah Aisyah Nafidiastri, Rizky Danang Susetyo, Tri Nurhariyati, Agus Supriyanto, Almando Gerald, Ni'matuzahroh, Fatimah, Salamun. <i>BIODIVERSITAS Journal of Biological Diversity</i> 22(12): 5375-5381 7. <i>Potential biocontrol agent of indigenous <i>Bacillus</i> sp. EG6.4: Molecular identification, larvicidal toxicity, and mechanism of actions.</i> Salamun, Rizky Danang Susetyo, Farah Aisyah Nafidiastri, Rizki Amaliah Zain, Rossy Permata Sari, Almando Gerald, Fatimah, Ni'matuzahroh. <i>Biodiversitas Journal of Biological Diversity</i> 23(10): 5431-5438 8. <i>Biosurfactant production of entomopathogenic <i>Bacillus subtilis</i> BK7.1, as potential biocontrol bacteria, isolated from Baluran National Park, East Java, Indonesia.</i> Salamun, Rizky Danang Susetyo, Ni'matuzahroh, Fatimah, Almando Gerald, Agus Supriyanto, Tri Nurhariyati, Farah Aisyah Nafidiastri,

	<p><i>Nabilatun Nisa', Endarto. BIODIVERSITAS Journal of Biological Diversity (2023), Vol.24, No. 3, pp. 1785-1792</i></p> <p>9. <i>Indigenous Bacillus species isolated from Aedes aegypti larvae: isolation, larvicidal toxicity, phenotypic characterizations, and molecular identification. Salamun, Rizky Danang Susetyo, Hakimatul Husniyah, Almando Geraldi, Ni'matuzahroh, Fatimah, Farah Aisyah Nafidiastri, Nabilatun Nisa, Muhammad Fath Alhaqqi Sanis Salmay. Biotropia (2023), Vol.30, No. 2. pp. 245-252</i></p>						
<p>Activities in specialist bodies over the last 5 years</p>	<table border="1"> <thead> <tr> <th data-bbox="536 517 815 555">Organisation</th> <th data-bbox="815 517 1094 555">Role</th> <th data-bbox="1094 517 1420 555">Period</th> </tr> </thead> <tbody> <tr> <td data-bbox="536 600 815 638"><i>Member of Indonesian Biological Association.</i></td> <td data-bbox="815 600 1094 638"></td> <td data-bbox="1094 600 1420 638"><i>1993 until now.</i></td> </tr> </tbody> </table>	Organisation	Role	Period	<i>Member of Indonesian Biological Association.</i>		<i>1993 until now.</i>
Organisation	Role	Period					
<i>Member of Indonesian Biological Association.</i>		<i>1993 until now.</i>					

Name	Dr. Sucipto Hariyanto		
Post	<p><i>Teaching area and designation</i></p> <p><i>Ecology, Environmental Management, Terrestrial Ecology, Evolution, General Biology (S1 Biology Program)</i></p> <p><i>Experimental Ecology (Master degree Program)</i></p>		
Academic career	<p><i>Initial academic appointment</i></p> <p>Habilitation [<i>German post-doctoral qualification</i>] (<i>subject</i>)</p> <p><i>Doctorate (Environment Science & Technology)</i></p> <p><i>Undergraduate degree (Biology)</i></p>	<p><i>Institution</i></p> <p><i>Institution</i></p> <p><i>University of Paris XII</i></p> <p><i>Gadjah Mada University</i></p>	<p><i>Year</i></p> <p><i>Year</i></p> <p><i>1997</i></p> <p><i>1981</i></p>
Employment	<p><i>Position</i></p> <p><i>Head of Department Biology</i></p> <p><i>Head of Undergraduate Biology study Program</i></p> <p><i>Lecturer</i></p>	<p><i>Employer</i></p> <p><i>FST-Unair</i></p> <p><i>FST-Unair</i></p> <p><i>FST-Unair</i></p>	<p><i>Period</i></p> <p><i>2015-2019</i></p> <p><i>2015-2019</i></p> <p><i>1986-now</i></p>
Research and development projects over the last 5 years	<p>Increasing Resistance to High Salinity in Food Plants Through Analysis and Transplantation of the Micro-biome of Halophyte Plants in the Sand Dune Ecosystem, 2021 & 2022. Financing by MOEC (IDR 155,000,000 & 123,141,000).</p> <p>Phytoplankton as a Marker of Organic Material Pollution in the Kali Surabaya River in an Effort to Mitigate the Quality of raw water in clean water consumption. 2021 & 2022. Financing by MOEC (IDR 56,000,000 & 46,665,000).</p> <p>Genetic Identification of the Primitive Brachiopod <i>Lingula</i> sp to Inventory and Support Marine Invertebrate Conservation Efforts. 2020. Financing by MOEC (IDR 39,162,500).</p> <p>Genetic Diversity and Relationships of Banana Cultivars <i>Musa acuminata</i>, <i>M. Balbisiana</i>, and <i>M. acuminata</i> X <i>M. balbisiana</i> to Support Agriculture in Indonesia. 2019, Financing by MOEC (IDR 58,520,000).</p> <p>Morphometric and Seed Morphology Study of Native Indonesian Species Genus <i>Dendrobium</i> Sw. 2019, Financing by Airlangga University (IDR 40,000,000).</p> <p>Response of <i>Thalassia hemprichii</i> (Ehrenb.) Ascers to High Temperature Stress Treatment. 2018, Financing by Airlangga University (IDR 40,000,000).</p>		

Industry collaborations over the last 5 years	<p><i>Project title -</i></p> <p><i>Partners -</i></p>				
Patents and proprietary rights	<table border="1"> <thead> <tr> <th data-bbox="536 349 1145 383"><i>Title</i></th> <th data-bbox="1145 349 1505 383"><i>Year</i></th> </tr> </thead> <tbody> <tr> <td data-bbox="536 405 1145 535"><i>Skeletonema sp cultivating method as Hg(II) and Cd(II) bio-absorbents</i></td> <td data-bbox="1145 405 1505 535">2019</td> </tr> </tbody> </table>	<i>Title</i>	<i>Year</i>	<i>Skeletonema sp cultivating method as Hg(II) and Cd(II) bio-absorbents</i>	2019
<i>Title</i>	<i>Year</i>				
<i>Skeletonema sp cultivating method as Hg(II) and Cd(II) bio-absorbents</i>	2019				
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. (give total number): 33 Articles</i></p> <p>O.H. Cahyonugroho, S. Hariyanto*, G. Supriyanto (2023) Association Between Phytoplankton Biology Indexes And Fluorescence Dissolved Organic Carbon Indexes For Monitoring Water Quality, <i>Rasayan J. Chem</i> Vol. 16 No.2 April-June 2023, 1050-1055.</p> <p>O.H. Cahyonugroho, S. Hariyanto*, G. Supriyanto (2023) Applying Fluorescence Dissolved Organic matter Spectra and Phytoplankton Biology Index for Assessing Urban River Quality, <i>Journal of Mathematics and Fundamental science</i>, Vol.54 No.3,2023, 311-329.</p> <p>Galuh Ayu Chantika Dwitara, Sucipto Hariyanto, Hery Purnobasuki, Junairiah and Edy Setiti Wida Utami * (2023), <i>Open Access Research Journal of Biology and Pharmacy (OARJBP)</i>, Vol. 08(02), 2023, 027–032.</p> <p>Hoang Dang Khoa Do, Arif Luqman, Minh Thiet Vu, Hoang Danh Nguyen, Yohanes Kartjito Putro, Elsalisa Ainur Rofiqah, Heri Santoso, Alfinda Novi Kristianti, Sucipto Hariyanto, Le Minh Bui, Yosephine Sri Wulan Manuhara*, Anjar Tri Wibowo*(2022) Differences in bacterial composition between vascular epiphyte and parasitic plants living on the same host plants, <i>Biodiversitas</i>, Volume 23, Number 11, November 2022: Pages: 5798-5805.</p> <p>Diana Nurus Sholehah, Eko Setiawan, Dini Ermavitalini, Miratul Khasanah, Edy Setiti Wida Utami, Sucipto Hariyanto, Hery Purnobasuki*(2022), Enhancing fruit quality of three <i>Physalis</i> sp. throughout foliar nutrition, <i>Plant, Soil and Environment</i>, Vol. 68, 2022 (5): 231–236.</p> <p>Minh Thiet Vu , Almando Geraldi , Hoang Dang Khoa Do , Arif Luqman , Hoang Danh Nguyen , Faiza Nur Fauzia, Fahmi Ikhlasul Amalludin, Aliffa Yusti Sadila, Nabilla Hapsari Wijaya, Heri Santoso, Yosephine Sri Wulan Manuhara 2,3 , Le Minh Bui 2,6 , Sucipto Hariyanto* and Anjar Tri Wibowo* (2022), Soil Mineral Composition and Salinity Are the Main Factors Regulating the Bacterial Community Associated with the Roots of Coastal Sand Dune Halophytes, <i>Biology</i> 2022, 11, 695, https://doi.org/10.3390/biology11050695.</p> <p>O.H. Cahyonugroho, S. Hariyanto*, G. Supriyanto (2022), Dissolved organic matter and its correlation with phytoplankton abundance for monitoring surface water quality, <i>Global J. Environ. Sci. Manage.</i> 8(1): 1-16, Winter 2022. DOI: 10.22034/gjesm.2022.01.05</p>				

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- Hery Purnobasuki*, **Sucipto Hariyanto** and Putut Rakhmad Purnama (2021), Genetic diversity of seagrass *Thalassia hemprichii* and *Enhalus acoroides* in coastal area of East Java, *Journal Jourdan of Biological Sciences*, Vol. 14, Number 1, March 2021, pages 111-119. <https://doi.org/10.54319/jjbs/140115>
- Sucipto HARIYANTO**, Rojaunnajah Kartika AINIYAH, Edy Setiti Wida UTAMI, Lia HAPSARI* (2021), Genetic Diversity and Network Within Dessert Bananas (*Musa acuminata* CV. AA and AAA) Inferred By newly Designated MatK Marker, *International Journal of Conservation Science*, Volume 12, Issue 2, April-June 2021: 585-598.
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- Sucipto Hariyanto** (2019), Variations in seed micromorphology and morphometry of native Indonesian *Phalaenopsis* and *Paphiopedilum* orchids, *Biodiversitas*, Vol. 20, No.12:3559-3567. <https://doi.org/10.13057/biodiv/d201214>
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- Febri Eko Wahyudianto*, Nur Indradewi Oktavetri, **Sucipto Hariyanto**, Dhila Nur Maulidia (2019), Application of Equisetum hyemale in Constructed Wetland: Influence of Wastewater Dilution and Contact Time, *Journal of Ecological Engineering (JEE)*, Volume 20, Issue 1: 174-179.
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- Almando Geraldi* Dimas Wahyu Meidivanto, Agoes Soegianto, Nurdiana Kameliatul Jannah, Faridlotul Ma'Rifah, Sucipto Hariyanto, Trisnadi Widyaleksono Catur Putranto & Bambang Irawan, Aken Puti Wanguyun and **Sucipto Hariyanto** (2019), Bioprospecting thermostable enzymes-producing thermophiles from Indonesia, *Ecology, Environment and Conservation*, 25 (July Suppl. Issue) : 2019; pp. (S57-S61).
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	<p><i>Thalassia hemprichii</i>, <i>Aquaculture, Aquarium, Conservation & Legislation (AACL Bioflux)</i>, Volume 11, Issue 6:1825-1833.</p> <p>Sitta Amaliyah, Sucipto Hariyanto, Hery Purnobasuki (2018), Growth responses of <i>Rhizophora apiculata</i> Blume in different soil and sediment conditions. <i>AACL Bioflux</i>, 2018, Volume 11, Issue 2. pages 379-386. DOI: 10.3923/jbs.2017.118.126</p> <p>Tutik Nurhidayati, R. Yuvita Rahman, Hery Purnobasuki, Sucipto Hariyanto, and Nurul Jadid (2018), Particular variety of tobacco <i>Nicotiana tabacum</i>) exhibits distinct morphological and physiological responses against periodic waterlogging stress, 2018 J. Phys.: Conf. Ser. Series 1028 (2018) 012035. doi :10.1088/1742-6596/1028/1/012035</p> <p>Hasan Adro'i, Sucipto Hariyanto*, Mahrus Ali, and Bambang Irawan (2018), Phenotype variation of guppy fish (<i>Poecilia reticulata</i> W. Peters, 1859) population from different quality of aquatic environments in Surabaya, Indonesia. AIP Conference Proceedings 2002. https://doi.org/10.1063/1.5050124</p>						
Activities in specialist bodies over the last 5 years	<table border="0"> <thead> <tr> <th style="text-align: left;"><i>Organisation</i></th> <th style="text-align: left;"><i>Role</i></th> <th style="text-align: left;"><i>Period</i></th> </tr> </thead> <tbody> <tr> <td colspan="3"><i>Membership without a specific role need not be mentioned</i></td> </tr> </tbody> </table>	<i>Organisation</i>	<i>Role</i>	<i>Period</i>	<i>Membership without a specific role need not be mentioned</i>		
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<i>Membership without a specific role need not be mentioned</i>							

Staff Handbook

Name	Dr. Sugiharto, S.Si., M.Si.
Post	Animal Physiology, Animal Cell Culture
Academic career	<p><i>Doctoral Programme</i> <i>S3 – FST, Unair</i> 2022</p> <p><i>Master Programme</i> <i>S2 – Biology, UGM</i> 2001</p> <p><i>Undergraduate (Biology)</i> <i>S1 – FMIPA, Unair</i> 1994</p>
Employment	<i>Lecturer (Assistant Profesor)</i> <i>Department of</i> <i>1994 – now</i> <i>Biology, Faculty of</i> <i>Science and</i> <i>Technology,</i> <i>Universitas Airlangga</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Antioxidant activity of curcumin on blood parameters and liver function of lead-exposed in mice (2018) 2. Potential of antioxidant and anticancer of <i>Gynura procumbens</i> adventitious root extract from in vitro culture (assay on mice and cell culture) (2019) 3. Potential of antioxidant <i>Gynura procumbens</i> leaf extract on mice cadmium-exposed (2020) 4. Potential of <i>Gynura procumbens</i> leaf extract as an antioxidant and anticancer: test of CAT enzyme levels and hepatocyte carcinoma cell culture (2021) 5. Potential of <i>Zingiber officinale cv rubra</i> and <i>Boesenbergia rotunda</i> rhizome extract as antioxidants and anticancer: assay on SOD and CAT enzyme and also cell culture (2023)
Industry collaborations over the last 5 years	-
Patents and proprietary rights	-
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Sugiharto, et al., (2019). Antioxidant activities of curcumin to mda blood serum concentration and lead levels in liver of mice, <i>Malaysian Journal of Science</i> 38 (Special Issue 3): 21-29. https://doi.org/10.22452/mjs.sp2019no3.3 2. Sugiharto, et al., (2019). Evaluation of antioxidant properties of curcumin for the management of lead exposed in mice, <i>Pollution Research</i>, 38, S177–S182. 3. Sugiharto, et al., (2020). The effects of lead acetate exposure on blood component and kidney: The mechanism of oxidative stress, <i>Ecology, Environment and Conservation</i>, 26: S65 - S69. 4. Sugiharto, et al., (2020). The comparison toxicity effects of lead and cadmium exposure on hematological parameters and organs of mice,

	<p><i>Ecology, Environment and Conservation</i>, 26 (4): 1842 – 1846. http://www.envirobiotechjournals.com/article_abstract.php?aid=11041&iid=322&jid=3</p> <p>5. Sugiharto, et al., (2021). Gynura procumbens ameliorates cadmium-induced hematotoxicity in mice, <i>Eco. Env. & Cons.</i>, 27 (August Suppl. Issue): S250-S253. http://www.envirobiotechjournals.com/article_abstract.php?aid=11603&iid=334&jid=3</p> <p>6. Sugiharto, et al., (2021). Comparison of antioxidant potential of Gynura procumbens adventitious root in vitro culture and ex vitro, <i>Eco. Env. & Cons.</i>, 27(4): 1880-1884. http://www.envirobiotechjournals.com/article_abstract.php?aid=12084&iid=342&jid=3</p> <p>7. Sugiharto, et al., (2022). Gynura procumbens adventitious root extract altered expression of antioxidant genes and exert hepatoprotective effects against cadmium-induced oxidative stress in mice, <i>Hayati Journal of Biosciences</i>, 29(4): 479-486. https://doi.org/10.4308/hjb.29.4.479-486</p> <p>8. Sugiharto, et al., (2022). The protective effect of Gynura procumbens adventitious root against lead acetate toxicity in mice, <i>Journal of Tropical Biodiversity and Biotechnology</i>, 07(02): 1-9. https://doi.org/10.22146/jtbb.69453</p> <p>9. Sugiharto, et al., (2022). Biological properties of Gynura procumbens leaves extract to MDA levels and antioxidant activities in liver of mice, <i>Res. J. Pharm. Technol.</i>, 15(12): 5829 – 5834. https://doi.org/10.52711/0974-360X.2022.00984</p> <p>10. Sugiharto, et al., (2023). Gynura procumbens methanolic extracts suppresses proliferation of hepatocellular carcinoma: in vitro assay, <i>AIP conference proceedings (Icowobas 8th)</i>: 2554, 090007. https://doi.org/10.1063/5.0104809</p>						
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<i>Member of Indonesian Biological Association.</i>							

Name	Dr. Dwi Winarni, M.Si.		
Post	Animal Physiology & Histology		
Academic career	Doctorate (Biology)	Mathematics and Natural Sciences, Universitas Airlangga	2008
	Master of Science (Biology)	Faculty of Biology, Universitas Gadjah Mada	1996
	Undergraduate degree (Biology)	Faculty of Mathematics and Natural Sciences, Universitas Airlangga	1988
Employment	Assistant Professor	Faculty of Mathematics and Natural Sciences, Universitas Airlangga	1989-2008
	Associate Professor	Faculty of Science & Technology, Universitas Airlangga	2008-now
Research and development projects over the last 5 years	<p><i>The Use of Alginate Sargassum Duplicatum Combined with Natural Extracts for Improving Hepatic and Kidney Structure and Function in Diabetic Mice. 2021-2022. Multiyears: Year 1= IDR Rp. 160.000,-, year 2 = IDR Rp 128.000.000,-). Fundamental Research (PDUPT)-Indonesia MOECRT</i></p> <p><i>Potency of Alginate Sargassum duplicatum, Okra Fruit Extract Abelmoschus esculentus) and Mangosteen Peel Extract (Garcinia mangostana) for preventing insulin resistance based on the relationship between changes in lipid profile, inflammation and intestinal microbiome. 2023. IDR Rp. 146.500.000,-. Fundamental Research (PDUPT)-Indonesia MOECRT</i></p> <p><i>Utilization of Local Sea Cucumber Collagen Extract (Acaudina rosettis) to Improve Glucose Levels, Lipid Profile and Glucose Transport in Muscle Tissue of Diabetic Mice (Mus musculus). 2023. IDR Rp. 29.700. Research for Master Thesis (PTM)-Indonesia MOECRT</i></p>		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	<p>20 publications</p> <p><i>Topical Administration Effect of Sargassum duplicatum and Garcinia mangostana Extracts Combination on Open Wound Healing Process in Diabetic Mice. Scientifica. 2022:7 pages. https://doi.org/10.1155/2022/9700794</i></p> <p><i>Wound Healing and Antioxidant Evaluations of Alginate from Sargassum ilicifolium and Mangosteen Rind Combination Extracts on Diabetic Mice Model. Applied Sciences. 2021. 11 (10), 4651. https://doi.org/10.3390/app11104651</i></p>		

	<i>Evaluation of the combination of Sargassum duplicatum, Sargassum ilicifolium, Abelmoschus esculentus, and Garcinia mangostana extracts for open wound healing in diabetic mice. Systematic Reviews in Pharmacy 2020. 11 (9), 888-892.</i>
Activities in specialist bodies over the last 5 years	<i>The Indonesian Biological Society</i> member 2000-now

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Name	Hari Soepriandono, S.Si., M.Si.		
Post	Animal Embryology, Animal Histology, Animal Anatomy		
Academic career	<i>Master of Medical Science (Biology)</i>	<i>Universitas Brawijaya</i>	2002
		<i>Faculty of Mathematic and Natural Sciences, Universitas Airlangga</i>	
	<i>Undergraduate (Biology)</i>		1994
Employment	<i>Lecturer</i>	<i>Assistant Professor</i>	<i>1994- now</i>
	<i>Department of Biology, Faculty of Science and Technology, Universitas Airlangga</i>	<i>in the Faculty of Science and Technology, Universitas Airlangga</i>	
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Potency of Alginate <i>Sargassum duplicatum</i>, Okra Fruit Extract (<i>Abelmoschus esculentus</i>) and Mangosteen Peel Extract (<i>Garcinia mangostana</i>) for preventing insulin resistance based on the relationship between changes in lipid profile, inflammation and intestinal microbiome. 2023. IDR Rp. 146.500.000,-. Fundamental Research (PDUPT)-Indonesia (Dwi Winarni et al.) 2. Potential of Red Ginger Rhizome Extract (<i>Zingiber officinale cv rubra</i>) and Temu Kunci (<i>Boesenbergia rotunda</i>) As an Antioxidant and Anticancer: SOD, CAT and Cell Culture Enzyme Activity Tests. 2023. IDR Rp. 41.550.000,- Internal Research. (Sugiharto et al.) 3. The Impact of Microplastics and Nanoplastics on the Health of Rats (Biochemical and Molecular) and Recovery Using Antioxidants (Medicinal Plants) (2022-2023) (Alfiah Hayati et al.) 		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Supplementary Feed Potential on Histology and Immune Response of Tilapia (<i>Oreochromis niloticus</i> L.) Exposed to Microplastics Potensi Makanan Tambahan ke atas Histologi dan Tindak Balas Imun Tilapia (<i>Oreochromis niloticus</i> L.) Terdedah kepada Mikropplastik; Hayati, A., Pramudya, M., Soepriandono, H., ...Muchtarmah, B., 		

	<p>Mwendolwa, A.A.; Sains MalaysianaThis link is disabled., 2023, 52(6), pp. 1607–1617</p> <p>2. Assessing the recovery of steroid levels and gonadal histopathology of tilapia exposed to polystyrene particle pollution by supplementary feed; Hayati, A., Pramudya, M., Soepriandono, H., ...Adriansyah, W., Dewi, F.R.P. <i>Veterinary World</i>This link is disabled., 2022, 15(2), pp. 517–523</p> <p>3. Effects of Medicinal Plants Rhizome on Growth Performance of Tilapia (<i>Oreochromis niloticus</i>) Exposed to Micro Plastics; Hayati, A., Pramudya, M., Soepriandono, H., ...Wahyuni, A.D., Primula Dewi, F.R. <i>AIP Conference Proceedings</i>This link is disabled., 2022, 2554, 090012</p> <p>4. The ability of probiotics to ameliorate blood and gonad damage caused by copper toxicity in Nile tilapia (<i>Oreochromis niloticus</i>); Hayati, A., Pramudya, M., Soepriandono, H. <i>Veterinary World</i>This link is disabled., 2021, 14(11), pp. 2964–2970</p>						
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<i>Organisation</i>	<i>Role</i>	<i>Period</i>					
<i>Member of Indonesian Biological Association.</i>							

Staff Handbook

Name	Dr. Junairiah, S.Si., M.Kes.		
Post	Plant Biochemistry Biology Plant Physiology Physiology of Growth Regulator Plant Taxonomy Economic Botany Plant Structure Taxonomy Taxonomy of Magnoliopsida'		
Academic career	<i>Doctorate (Biology)</i>	<i>Faculty of Biology, Universitas Gadjah Mada</i>	<i>2013</i>
	<i>Master of Medical Science (Medical Biology)</i>	<i>Faculty of Medicine, Universitas Airlangga</i>	<i>2001</i>
	<i>Undergraduate degree (Biology)</i>	<i>Faculty of Mathematics and Natural Sciences, Universitas Airlangga</i>	<i>1995</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Lecturer (Faculty of Science and Technology, Universitas Airlangga)</i>	<i>Assistant Professor of Biology</i>	<i>2002-now</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <i>1. Exploration and Potential of Ferns Candidates for Antioxidant and Antimicrobial. 2023. (SATU JRS). IDR. Rp. 70.000.000/year</i> <i>2. Phytochemistry, biological activity, and secondary metabolite production methods from Elephantopus scaber callus culture. (Airlangga Research Fund). IDR. 47.300.000.</i> <i>3. Isolation of secondary metabolites, antioxidant and antimicrobial activity tests of methanol and n hexane extracts of various Tabebuia species. (DRTPM). IDR. 29.900.000.</i> <i>4. Development of antimicrobial and antioxidant products for Piper sarmentosum callus as functional medicinal ingredients for the control of infectious diseases in Indonesia. (Airlangga Research Fund) .IDR. 48.800.000</i> 		

	<p>5. <i>Production of Antimicrobial and Antioxidants Agents from Callus Culture of Anredera cordifolia as a countermeasure Tropical Diseases in Indonesia. 2022. (PUF UNAIR). IDR. 40.000.000/year.</i></p> <p>6. <i>Exploration of Antimicrobial and Antioxidants Candidates Local Medicinal Plant to Overcome Disease Infection. 2021. (PUF UNAIR). IDR. 40.000.000/year.</i></p> <p>7. <i>Optimization of callus induction of Piper sarmentosum Roxb For Production Antimicrobial and Antioxidant Agents As an Effort to Overcome Tropical Diseases. 2020.(PUF UNAIR). IDR. 40.000.000</i></p> <p>8. <i>Exploration of Antimicrobial Agents from Culture Callus Javanese Chili Callus (Piper retrofractum Vahl.) Development Efforts Natural Ingredients Medicine. 2019. (PUF UNAIR). IDR. 40.000.000</i></p> <p><i>Production Biotechnology of Antibacterial and Antifungal Compound from Callus Culture of (Piper betle L. var Nigra) Original Species. 2019. (PUF UNAIR). IDR. 120.000.000</i></p>
Industry collaborations over the last 5 years	<p><i>Project title</i></p> <p><i>Partners</i></p>
Patents and proprietary rights	<p><i>Production of biotic elicitor to stimulate secondary metabolite (Junairiah, Ni'matuzahroh, Hery Suwito, Tri Nurhariyati) 2019</i></p>
Important publications over the last 5 years	<p>1. <i>Unraveling the Secrets of Eclipta alba (L.) Hassk: a Comprehensive Study of Morpho-Anatomy and DNA Barcoding. Wahyuni, DK., Yoku, BF., Mukarromah, SR., Purnama, PR., Ilham, M., Rakhasiwi, GA., Indriati, DT, Junairiah, Wacharasindhu, S., Prasongsuk., Subramaniam, S., Purnobasuki, H. Brazilian Journal of Biology. 2023.</i></p> <p>2. <i>Extraction , Isolation and Characterization of Bioactive Compounds from Ethanol and Chloroform Extracts of Piper sarmentosum Roxb. Leaves Asian. Junairiah, Nurhariyati,T., Marisan M, Suhargo S, Zuraidassanaaz NI. Asian Journal of Plant Sciences, 22 (2) : 290-294, 2023</i></p> <p>3. <i>Antioxidant, Antimicrobial Activity and Phytocheemical Sreening of Syzygium cumini L. Leaves in Tropical Region from Surabaya, East Java, Indonesia..Junairiah, Fatimah, Nurhariyati T, Zuraidassanaaz N.I. Asian Journal of Plant Sciences, 22 (1) : 104-112, 2023</i></p> <p>4. <i>Effect of 2,4 D dichlorophenoxyacetic acid (2,4 D) and kinetin on callus induction and growth of Physalis angulate L. leaf explants.Dwitara GA., Hariyanto, S., Purnobasuki, H., Junairiah, Utami, ESW. Biology and Pharmacy. 08(02).027-032. 2023.</i></p> <p>5. <i>Effect of Copper Sulphate on Biomass Production and Bioactive Compound in Callus Culture of Piper betle L. var Nigra. Junairiah, Ni'matuzahroh, Sulistyorini, S., Zuraidassanaaz. European Chemical Bulletin. 12 (1): 1735-1741.2023.</i></p> <p>6. <i>Callus Induction of Anredera cordifolia L with Various Concentration of Benzyl Amino Purin (BAP). Junairiah, Fatimah, Nurhariyati, T., Zuraidassanaaz, N.I. European Chemical Bulletin. 12 91): 2396-2400. 2023.</i></p>

	<p>7. <i>Effect of various types of growth regulators on callus induction of piper betle L var Nigra.</i> Junairiah, Ni'matuzahroh, Zuraidassanaaz, NI., Sulistyorini, L. <i>Journal Pharmasc.</i> Vol 8. No. 1. 2023.</p> <p>8. Effect of Abiotic and Biotic Elicitors on Callus and Suspension from Piper Betle L. Var. Nigra . Junairiah, Ni'matuzahroh, Sulistyorini, L., Zuraidassanaaz, NI. <i>Jurnal Syntax Idea.</i> Vol 5. No. 4.2023.</p> <p>9. <i>Molecular simulation of compounds from n-hexane fraction of Sonchus arvensis L. leaves as SARS-CoV-2 antiviral through inhibitor activity targeting strategic viral protein.</i> Wahyuni, DK., Wacharasindhu, S., Bankeeree, W., Punnapayak, H., Purnobasuki, H., Junairiah, Ansori, ANM, Kharisma, VD, Parikesit, AA, Suhargo, L., Prasongsuk, S. <i>Journal of Pharmacy and Pharmacognosy Research</i>, 10(6): 1126 – 1138. 2022. https://doi.org/10.56499/jppres22.148910.6.1126</p> <p>10. <i>Morpho-anatomical characterization and DNA Barcoding of Achillea millefolium L.</i> IlhamM., Mukarromah, SR., Rakashiwi, GA., Indriati, DT., Yoku, BF., Purnama, PR., Junairiah, Prasongsuk, S., Purnobasuki, H., Wahyuni, DK. <i>Biodiversitas</i>, 23: 1958-1969. 2022. https://doi.org/10.13057/biodiv/d230430.</p> <p>11. <i>Morpho-anatomical characterization and DNA barcoding analysis of Pluchea indica (L.) Less.</i> Wahyuni, DK., Mukarromah, SR., Purnama, PR., Ilham, M., Rakashiwi, GA., Indriati, DT., Yoku, BF., Purnobasuki, H., Junairiah, Prasongsuk, S. <i>Biodiversitas</i> 23: 4272-4282. 2022. https://doi.org/10.13057/biodiv/d230851.</p> <p>12. <i>Effect of 2,4 -D and BAP on Callus Induction of Piper retrofractum vahl.</i> Junairiah, Arofah J, Manuhara YSW, Nurhariyati T, Ni'matuzahroh. <i>Research Journal of Pharmacy and Technology</i>, 14 (3) March 2021 ISSN 0974-360x</p> <p>13. <i>Phytochemical in the Methanol Extract of Piper Sarmentosum.</i> Junairiah, Nurhariyati T, Zuraidassanaaz N I, <i>Eco.Env. & Cons.</i> 26 (November Suppl. Issue : 2020; pp(S123 – S126) ISSN 0Bioactive Compounds profile and Antimicrobe Activities of N-hexane and Ethyl Acetate Extracts of Piper retrofractum fruit. Junairiah, Irmayanti ND, Nurhariyati T, Ni'matuzahroh. <i>Annals of Biology</i> 36(2): 329-332, 2020, ISSN 0970-0153</p> <p>14. <i>Identification of Phytochemical Compounds in Ethanol and N-Hexane Leaf Extracts of Piper retrofractum vahl By gas chromatography mass spectrometry.</i> Junairiah, Amalia S E, Ni'matuzahroh, Nurhariyati T, <i>Moroccan Journal of Chemistry</i>. 8 S1 (2020)032-037 ISSN 2351-812X 971-765x</p>
	<p>Organisation</p> <p>Role</p> <p>Period</p>

Activities in specialist
bodies over the last 5
years

Member of Indonesian Biological Association

Name	<i>Dr Hamidah M.Kes.</i>		
Post	1 Biology 2 Plant taxonomy 3 Morphology plant		
Academic career	<i>Doctoral (Biology)</i>	<i>Faculty Biology, University of Gajah Mada</i>	<i>2009</i>
	<i>Master of Medical Sains (basic medical sains)</i>	<i>Faculty of Medical, University Airlangga</i>	<i>1996</i>
	<i>Undergraduate degree (Biology)</i>	<i>Faculty of Sains</i>	<i>1986</i>
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Lecturer</i>	<i>Senior lecturer, Department of Biology, Faculty of Science and Technology, Universitas Airlangga Surabaya, Indonesia</i>	<i>2006 - Now</i>
		<i>Associate Professor in the Faculty of Science and Technology, Universitas Airlangga</i>	
Research and development projects over the last 5 years	<i>No Data</i>		
Industry collaborations over the last 5 years	<i>No Data</i>		
Patents and proprietary rights	<i>No Data</i>		
Important publications over the last 5 years	<i>No Data</i>		
Activities in specialist bodies over the last 5 years	<i>Organisation</i>	<i>Role</i>	<i>Period</i>
	<i>Member of Indonesian Biological Association. 1993 until now.</i>		

Name	<i>Thin Soedarti, DRA, CESA</i>		
Post	<ol style="list-style-type: none"> 1. <i>Behavioral Ecology</i> 2. <i>Conservation Biology</i> 3. <i>Environmental Geographic Information System</i> 4. <i>General Ecology</i> 5. <i>Introduction to General Ecology</i> 6. <i>Terrestrial Ecology</i> 		
Academic career	<i>Bachelor of Science (Biology and General Biotechnology)</i>	<i>Faculty of Science and Technology, Airlangga University</i>	1991
	<i>Master of Science (Biology and General Biotechnology)</i>	<i>Department of Biology, École Nationale Supérieure Agronomique de Rennes</i>	1997
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	<i>Associate Professor (Faculty member of Faculty Science and Technology Universitas Airlangga)</i>	<i>Dean of The Faculty of Science and Technology, Airlangga University</i>	<i>2010-now</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. <i>Synthesis and Utilization of Hydroxyapatite from Batik Clam Shell Waste (Paphia undulata) as The Adsorbent for Pb and Cd Removal: Implementation Of SDGs Number 6 (Clean Water and Sanitation) and 12 (Responsible Consumption and Production). 2023-2024. Airlangga Research Fund. IDR 47.375.000/year</i> 2. <i>Utilization of Meretrix Clam Shell Waste (Meretrix meretrix) as The Adsorbent for The Removal Of Pb, Cd, Cu, Ni, And Zn for The Application Of Circular Economy And Water Pollution Control. 2022. Advanced Research Directorate of Research, Technology and Community Service. IDR 47.375.000</i> 3. <i>Utilization of Immobilized Skeletonema sp. for Remediation of Alkylphenol and Estradiol in Raw Drinking Water. 2021. Internal Research. IDR 40.000.000</i> 4. <i>Utilization of Green Mussel (Perna viridis) and Antique Ark (Anadara antiquata) Shell Waste as Cheap Adsorbent for The Removal of Copper, Nickel and Zinc: Waste Valorisation for Water Pollution Control. 2021. Internal Research. IDR 100.000.000</i> 5. <i>Utilization of Batik Clam Shell Waste (Pavia undulata) as The Adsorbent to Remove Lead and Cadmium: Efforts to Implement Zero Waste and Control Water Pollution. 2020. Internal Research. IDR 100.000.000</i> 		

	<ol style="list-style-type: none"> 6. <i>Composite Adsorbent Made from Sawn Wood Waste and Cassava Peel for The Removal of Lead, Cadmium, Copper and Zinc from Water (Second Year). 2021. Internal Research. IDR 120.565.700</i> 7. <i>Utilization of Immobilized Skeletonema sp. for Remediation of Micropollutants in Drinking Water Raw Materials. 2020. Internal Research. IDR 40.000.000</i> 8. <i>Composite Adsorbent Made from Sawn Wood Waste and Cassava Peel for The Removal of Lead, Cadmium, Copper and Zinc from Water (First Year). 2019. Directorate of Research, Technology and Community Service Funding. IDR 105.000.000</i> 9. <i>Bioremediation of Heavy Metals and Their Mixtures by the Marine Diatom Skeletonema sp. (Second Year). 2018. Internal Research. IDR 110.000.000</i> 10. <i>Aerobic Wastewater Treatment Innovation with The Application of Microalgae-Bacteria Immobilization to Save Energy in Waste Processing. 2018. Internal Research. IDR 40.000.000</i> 11. <i>Relationship Analysis of Annona spp (Annonaceae) Based on the DNA Approach: Efforts to Exploration and Development of Natural Medicines. 2018. Internal Research. IDR 40.000.000</i>
Industry collaborations over the last 5 years	No Data
Patents and proprietary rights	<ol style="list-style-type: none"> 1. <i>Metode Pengkulturasian Skeletonema sp. sebagai Bio-Adsorben Hg(ii) dan Cd(ii)</i> 2022 2. <i>METODE PEMBUATAN ADSORBEN DARI LIMBAH PADAT PABRIK AGAR-AGAR BERBAHAN DASAR Gracilaria sp., ADSORBEN DAN PENGGUNAANNYA SEBAGAI PEREDUKSI DAN PENGHILANG Hg(II), Pb(II), DAN Cd(II)</i> 2019
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. <i>Sudarwati, T. P. L., Kusumo, G. G., Hanny Ferry Fernanda, M. A., Soedarti, T., & Soegianto, A. 2021. Bioautography of ethanol extract from carica papaya leaves for antimicrobial activity against staphylococcus aureus, e. Coli and bacillus subtillis. Ecology, Environment and Conservation, 27(2), 917-920.</i> 2. <i>Agustin, R. E., Hamidah, & Soedarti, T. 2020. The correlation of lead (Pb) content on leaves of puring (codiaeum variegatum) cultivar croton to stomata's number in Surabaya, Indonesia. Pollution Research, 39(4), 966-970.</i> 3. <i>Arfiati, D., Cokrowati, N., Pratiwi, D. C., Pratiwi, N., A'yunin, Q., Putranto, T. W., & Soedarti, T. 2020. Comparison of remediation performance of Chaetoceros calcitrans on heavy metals and diesel fuel exposure.</i> 4. <i>Shalihah, I. A., Kuncoro, E. P., Surtiningsih, T., Oktavetri, N. I., & Soedarti, T. Difference of Hg (II) removal efficiency in leachate by Immobilized Skeletonema sp.</i> 5. <i>Kurniawan, T.P., Kuncoro, E.P., Surtiningsih, T., Oktavetri, N.I. and Soedarti, T., 2020. Removal efficiency of total chromium in leachate from landfill</i>

	<p>using immobilized <i>Skeletonema</i> sp. <i>Ecology, Environment and Conservation</i>, 26, pp.S174-S178.</p> <p>6. Puspitasari, E., Kuncoro, E.P., Surtiningsih, T., Oktavetri, N.I. and Soedarti, T., 2020. The difference of percentage removal efficiency of heavy metal Pb (II) in leachate by <i>Skeletonema</i> sp. immobilized. <i>Ecology, Environment and Conservation</i>, 26, pp.S165-S168.</p> <p>7. Istiqomah, N.A., Kuncoro, E.P. and Soedarti, T., 2019. Removal of cadmium from electroplating industry wastewater using adsorbent from solid waste of agar industry. <i>Pollution Research</i>, 38, pp.S193-S197.</p> <p>8. Purnama, M.Y., Soedarti, T., Oktavetri, N.I. and Fitriani, N., 2019, May. Distribution mapping of Open Defecation (OD) houses in East Surabaya based on Geographic Information System (GIS). In <i>IOP Conference Series: Earth and Environmental Science</i> (Vol. 259, No. 1, p. 012023). IOP Publishing.</p> <p>9. Soedarti, T., Fadila, A.F., Hariyanto, S. and Safitri, D.P., 2019. Mapping seagrass beds diversity distribution in substrates on Sirondo Beach–Baluran National Park using GIS. <i>Ecology, Environment and Conservation</i>, 25, pp.11-14.</p> <p>10. Soedarti, T., Surtiningsih, T. and Oktavetri, N.I., 2019. Removal of heavy metals (Mix of Hg (II), Cd (II), and Pb (II)) in aqueous solution using microalgae. <i>Pollution Research</i>, 38, pp.S100-S104.</p>
Activities in specialist bodies over the last 5 years	<p><i>Indonesian Biology Association (PBI)</i> Member 1992-2022</p>

Staff Handbook

Name	Tri Nurhariyati, S.Si.,M.Kes						
Post	<ul style="list-style-type: none"> - <i>General Microbiology</i> - <i>Bacteriology</i> - <i>Mycology</i> - <i>Applied Microbiology</i> - <i>Microtechniques</i> - <i>Biology</i> 						
Academic career	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;"><i>Master of Medical Science (Microbiology)</i></td> <td style="width: 30%;"><i>Faculty of Medicine, Universitas Airlangga</i></td> <td style="width: 30%; text-align: right;">2001</td> </tr> <tr> <td><i>Undergraduate (Biology)</i></td> <td><i>Faculty of Mathematic and Natural Sciences, Universitas Airlangga</i></td> <td style="text-align: right;">1993</td> </tr> </table>	<i>Master of Medical Science (Microbiology)</i>	<i>Faculty of Medicine, Universitas Airlangga</i>	2001	<i>Undergraduate (Biology)</i>	<i>Faculty of Mathematic and Natural Sciences, Universitas Airlangga</i>	1993
<i>Master of Medical Science (Microbiology)</i>	<i>Faculty of Medicine, Universitas Airlangga</i>	2001					
<i>Undergraduate (Biology)</i>	<i>Faculty of Mathematic and Natural Sciences, Universitas Airlangga</i>	1993					
Employment	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;"><i>Lecturer</i></td> <td style="width: 30%;"><i>Assistant Professor in the Faculty of Science and Technology, Universitas Airlangga</i></td> <td style="width: 30%; text-align: right;"><i>1994- now</i></td> </tr> <tr> <td><i>Department of Biology, Faculty of Science and Technology, Universitas Airlangga</i></td> <td><i>Surabaya, Indonesia</i></td> <td></td> </tr> </table>	<i>Lecturer</i>	<i>Assistant Professor in the Faculty of Science and Technology, Universitas Airlangga</i>	<i>1994- now</i>	<i>Department of Biology, Faculty of Science and Technology, Universitas Airlangga</i>	<i>Surabaya, Indonesia</i>	
<i>Lecturer</i>	<i>Assistant Professor in the Faculty of Science and Technology, Universitas Airlangga</i>	<i>1994- now</i>					
<i>Department of Biology, Faculty of Science and Technology, Universitas Airlangga</i>	<i>Surabaya, Indonesia</i>						
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. <i>Efforts to Develop Microbial Biocide Formulas: Synergistic Study and Consortium of Local Isolates of Bacillus Species as Antimicrobial Biological Agents. Salamun, Supriyanto A, Nurhariyati, T.2023. University Basic Research. IDR=48.815.000</i> 2. <i>DEVELOPMENT OF LOCAL BIOINSECTICIDE PRODUCTS: Biosurfactant production and detection of genes encoding surfactin biosynthesis in Bacillus spp. local, Efforts to develop biological control materials for plant disease and pest vectors. Salamun, Nurhariyati T, Supriyanto A 2022. Internal Research. IDR=40.000.000</i> 3. <i>Production of antimicrobial and antioxidant materials from anredera cordifolia callus as an effort to control tropical diseases in</i> 						

	<p><i>Indonesia. Junairiah, Tri Nurhariyati, ... Internal Research.. 2022 IDR : 40.000.000</i></p> <p>4. <i>DEVELOPMENT OF LOCAL BIOINSECTICIDE PRODUCTS: Genetic Nationality of Local Entomopathogens Bacillus spp. and Its potential as a bioinsecticide in the biological control of plant pests. Salamun, Nurhariyati T, Supriyanto A, 2021. Internal Research. IDR=40.000.000</i></p> <p>5. <i>Exploration of antimicrobial and antioxidant candidates from local Indonesian Medicinal Plants to Treat infectious disease , . Junairiah, Fatimah, Nurhariyati T. 2021. Internal Research. IDR: 40.000.000</i></p> <p>6. <i>Utilization of Potential microbes isolated from Mangrove Soil , Indonesia to biofertilizer and effort to provide culture Collection of local Isolates. . Fatimah, Surtiningsih T, Nurhariyati T. 2020. University Basic Research (PDUPT) IDR: 97.790.000</i></p> <p>7. <i>Production and characterization of biosurfactants from BP(1)5 isolate on sugar substrates the result of hydrolysis of agricultural waste. Ni'matuzahroh, Tri Nurhariyati, ...2029. IDR :</i></p>
Industry collaborations over the last 5 years	No data
Patents and proprietary rights	<p><i>Production of Biotic Elicitors to stimulate secondary metabolites. (Junairiah, Ni'matuzahroh, Suwito H,Nurhariyati T}</i> 2019</p>
Important publications over the Research Journal of Pharmacy and Technology,14 (3) March 2021 ISSN 0974-360x	<ol style="list-style-type: none"> <i>Extraction , Isolation and Characterization of Bioactive Compounds from Ethanol and Chloroform Extracts of Piper sarmentosum Roxb. Leaves Asian. Junairiah, Nurhariyati,T., Marisan M, Suhargo S, Zuraidassanaaz NI. Asian Journal of Plant Sciences, 22 (2) : 290-294, 2023</i> <i>Biosurfactant production of entomopathogenic Bacillus subtilis BK7.1, as potential biocontrol bacteria, isolated from Baluran National Park, East Java, Indonesia. Salamun, Rizky Danang Susetyo, Ni'matuzahroh, Fatimah, Almando Gerald, Agu Supriyanto, Tri Nurhariyati, Farah Aisyah Nafidiastri, Nabilatun Nisa', Endarto. BIODIVERSITAS Journal of Biological Diversity (2023), Vol.24, No. 3, pp. 1785-1792</i> <i>Antioxidant, Antimicrobial Activity and Phytocheemical Sreening of Syzygium cumini L. Leaves in Tropical Region from Surabaya, East Java, Indonesia.Junairiah, Fatimah, Nurhariyati T, Zuraidassanaaz N I. Asian Journal of Plant Sciences, 22 (1) : 104-112, 2023</i> <i>Comparison of Nutrient rich and Limited Media in The Production of Biosurfactant by Achromobacter xylosoxidans BP(1)5.Sari S K, Ni'matuzahroh, Fatimah, Nurhariyati T, Trikurniadewi N, Khiftiyah A M, Abidin A Z, Indriyasari K N. Malaysian Journal of microbiology vol. 18 (2) 2022,pp 215-221</i>

5. *Antimicrobial Activity of Actinomycetes Isolated from Mangrove Soil in Tuban, Indonesia.* Fatimah, Suroiyah F, Solikkha N, Dwirahayuningtyas N, Surtiningsih T, **Nurhariyati T**, Ni'matuzahroh, Affandi M, Geraldi A, Thontowi A. *Biodiversitas Vol. 23, number 6, june 2022, Pages 2957-2965 ISSN : 1412-033X, E-ISSN :2085-4722*
6. *Ability. Test of IAA (Indole-3-Acetic Acid) Hormone Producing Endophytic Bacteria from Lamongan Mangrove.* Fatimah, Fadillah R L, Millah A I, **Nurhariyati T**, Irawan B, Ni'matuzahroh, Affandi M, Zuhri A R N I, Widhiya E W, Salsabila S, Ramly Z A. *Jurnal Riset Biologi dan Aplikasinya, vol.4, issue 1, march 2022*
7. *Isolation and Potency Test of Endophytic Bacteria as Nitrogen Fixer from Mangrove Plant In Lamongan.* Fatimah, Millah A I, Fadilah R L A, Salsabila S, Ramly Z A, Sugiarti T, **Nurhariyati T**, Ni'matuzahroh, Affandi M, *Jurnal Riset Biologi dan Aplikasinya, vol.3 issue 1, March 2021*
8. *Biosurfactant activity of indigenous Bacillus sp. ES4.3 isolated from endemic breeding sites of dengue hemorrhagic fever vector in Surabaya, East Java, Indonesia.* Farah Aisyah Nafidiastri, Rizky Danang Susetyo, **Tri Nurhariyati**, Agus Supriyanto, Almando Geraldi, Ni'matuzahroh, Fatimah, Salamun. *BIODIVERSITAS Journal of Biological Diversity 22(12): 5375-5381*
9. *The effect of Diet Supplement on Oreochromis niloticus (L) Morphometrics in Environments Contaminated with Cadmium.* A Hayati, Pramudya M, Supriyanto A, **Nurhariyati T**, Zahra PF, Hatasa S, *IOP conferenceseries : earth and environmental science. 718(2021) doi: 10.1088/1755-1315/718/1/012005*
10. *Effect of 2,4 -D and BAP on Callus Induction of Piper retrofractum vahl.* Junairiah, Arofah J, Manuhara YSW, **Nurhariyati T**, Ni'matuzahroh. *Research Journal of Pharmacy and Technology, 14 (3) March 2021 ISSN 0974-360x*
11. *Phytochemical in the Methanol Extract of Piper Sarmentosum.* Junairiah, **Nurhariyati T**, Zuraidassanaaz N I, *Eco.Env. & Cons.26 (November Suppl. Issue : 2020; pp(S123 – S126) ISSN 0971-765x*
12. *Phosphate Solubilizing Bacteria Isolated from Tuban Mangrove Soil, Indonesia.* Fatimah, I N Annizah, D D Alawiyah, R D Susetya, T Surtiningsih, **T Nurhariyati.** *IOP Conf.series Earth and Enviromental Science 762(2021)012007. Doi 10.1088/1755-1315/762/1/012007*
13. *Potency of phosphate Solubilizing Yeast from Mangrove Center Jenu, Tuban, Indonesia.* **Tri nurhariyati**, Puspita Ayu Dewi, Indah Nur Annizah, Tini Surtiningsih, Fatimah. *Eco.Env.& Cons. 26(4): pp. 265-268, 2020*
14. *Prospect of Native Entomopathogenic Bacilli from Bahuran National Park as Biological Control of Dengue Fever Vector.* Salamun, Ni'matuzahroh, Fatimah, Vicky Findawati, Rizky Danang Susetyo,

- Nadiyah Al-Batati, **Tri Nurhariyati** and Agus Supriyanto. *Annals of Biology* 36 (2): 232-237, 2020*
15. *Diversity of Indigenous Entomopathogenic Bacilli from Domestic Breeding Sites of Dengue Hemorrhagic Fever Vector Based on the Toxicity against Aedes aegypti Larvae. Salamun, Ni'matuzahroh, Fatimah, M. I. F. Maswantari, M.U. Rizka, **T. Nurhariyati** and A. Supriyanto. *Eco. Env. & Cons.* 26 (April Suppl. Issue): 2020; pp. (20-25)*
 16. *Corn Cob Hydrolyzate from Penicillium Citrinum H9 as an alternative Substrate for Biosurfactant Production by Hydrocarbonoclastic Bacteria. Fatimah, Sari S K, Trikurniadewi N, Ibrahim S N M M, Khiftiyah A M, Indriyasari K N, **Nurhariyati T**, Surtiningsih T, Yuliani H, Ni'matuzahroh, *Eco. Env. & Cons.* 26 (April Suppl. Issue) :2020 PP (S169-S17). ISSN 0971-765X5*
 17. *Bioconversion of Agricultural Waste Hydrolysate from Lignocellolytic Mold into Biosurfactant by Achromobacter sp BP (1)5. Ni'matuzahroh, Sari S K, Trikurniadewi N, Ibrahim S N M M, Khiffiyah A M, Abidin A Z, **Nurhariyati T**, Fatimah. *Biocatalysis and Agricultural Biotechnology.* Vol 24, March 2020*
 18. *Potential of Probiotics and Vitamin C on Metallothionein and Hematological Parameters in tilapia (Oreochromis niloticus) affected by Cadmium Exposure. Alfiah Hayati, **Nurhariyati T**, Pramudya M, Susilo J K, Mwendolwa A A *AACL Bioflux*, 2020, vol 13, issue 5*
 19. *Exploration of Proteolytic Bacteria from Mangrove Center Tuban Soil. Fatimah, Zahrotul Jannah, Fatichatus Suroiyah, Azzah, Salamun, **Tri Nurhariyati** and Tini Surtiningsih. *Annal of Biology*, Vol. 36(No. 2): hal. 267-271, April 2020*
 20. *Potency of phosphate solubilizing mold from rhizosphere soil in mangrove center tuban, Indonesia. Surtiningsih T, Ni'matuzahroh, **Nurhariyati T**, Fatimah. *Ecology, Environment and Conservation* .26 (November Suppl, Issue. ISSN 0971=765x, 2020.*
 21. *Bioactive Compounds profile and Antimicrobe Activities of N-hexane and Ethyl Acetate Extracts of Piper retrofractum fruit. Junairiah, Irmayanti ND, **Nurhariyati T**, Ni'matuzahroh. *Annals of Biology* 36(2): 329-332, 2020, ISSN 0970-0153*
 22. *Identification of Phytochemical Compounds in Ethanol and N-Hexane Leaf Extracts of Piper retrofractum vahl By gas chromatography mass spectrometry. Junairiah, Amalia S E, Ni'matuzahroh, **Nurhariyati T**, *Moroccan Journal of Chemistry.* 8 S1 (2020)032-037 ISSN 2351-812X*
 23. *Dietary Supplements of Herbs and Lactic Acid Bacteria to Improve the Quality of Fish Sperm Exposed to Mercury. Hayati A, Rohmi F N, Fikriyah N A, Saba A F, **Nurhariyati T**, Supriyanto A, Suhargo L, Ayubu A. *Eco. Env. & Cons. (June. Suppl, issue): 2020: pp (S160-S164). ISSN 0971-765X0**

	<p>24. <i>Utilization of Rice Straw Hydrolysis Product of Penicillium sp H9 as A Substrate of Biosurfactant Production by LII61 Hydrocarbonoclastic bacteria. .Ni'matuzahroh, S K sari, N Trikurniadewi, A D Pusfita, I P Ningrum, S N M M Ibrahim, T Nurhariyati, Fatimah, Tb Surtiningsih. IOP conf. series : Earth and Environmental Science 217 (2019)012028. doi:10.1088/1755-1315</i></p> <p>25. <i>Morphometric Variations of Fish from Brantas River East Java, Indonesia.A Hayati, Rasyad M F M , Putra I D S, Nurhariyati T, AminM HF, Putranto T W C , Wanguyun A P, Sugiharto, Affandi M. Eco.Env. & Cons 25 (april suppl.issue : 2019. pp(557-561) ISSN 0917-765X</i></p> <p>26. <i>The potential of Indigenous Bacteria from Oil Sludge for Biosurfactat Production Using Hydrolysate of Agricultural waste.Ni'matuzahroh, Sari S K, Ningrum I P, Pusfita A D, Maryayandari L, Trikurniadewi N, Ibrahim S M N, Fatimah, Nurhariyati T, Surtiningsih T, Yuliani H. Biodiversitas Journal of Biological Diversityvol.20, Number 5, May 2019, pages 1374-1379</i></p> <p>27. <i>Biodegradation of Plastic Waste by Bacteria Isolated from Surabaya Landfills.Sitorus AAM, Rahayu T, Khiftiyah, Salamun, Nurhariyati T, Fatimah, Ni'matuzahroh. Pollution Research, Vol. 38 (August Suppl. Issue): S21-25 (2019)</i></p>						
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<i>Member of Indonesian Biological Association.</i>							

Name	<i>Dwi Kusuma Wahyuni, S.Si., M.Si., Ph.D.</i>		
Post	<ol style="list-style-type: none"> 1. <i>Plant Tissue Culture</i> 2. <i>Economy Botany</i> 3. <i>Plant Morphogenesis</i> 4. <i>Plan Structure and Development</i> 5. <i>Plant Embryology</i> 		
Academic career	<p><i>Bachelor of Science (Biology, Bachelor of Science)</i></p> <p><i>Mater of Science (Biology)</i></p> <p><i>Doctorate (Botany)</i></p>	<p><i>Faculty of Biology, Gadjah Mada University</i></p> <p><i>Faculty of Biology, Gadjah Mada University</i></p> <p><i>Department of Botany, Faculty of Science, Chulalongkorn University</i></p>	<p>2001</p> <p>2004</p> <p>2023</p>
Employment	<p><i>Position</i></p> <p><i>Lecturer (Faculty member of Faculty Science and Technology Universitas Airlangga)</i></p>	<p><i>Employer</i></p> <p><i>Assistant Professor of Biology</i></p>	<p><i>Period</i></p> <p>2006-now</p>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. <i>Molecular analysis of antimalarial compound synthesis-genes on Sonchus arvensis L. callus. 2018-2020. Minister of Education of the Republic of Indonesia (DIPA SILITABMAS-PDUPT). IDR. Rp. 260.000.000,00/year</i> 2. <i>DNA Barcoding of Medicinal Plant. 2018-now. PT. Intiland Development Tbk. Surabaya, Indonesia. IDR. Rp. 70.000.000,00/year</i> 3. <i>Morpho-anatomical structure, DNA barcoding, and metabolite profiles analysis of tempuyung (Sonchus arvensis L.) and angšana (Pterocarpus sp.): Efforts to obtain quality standards for Indonesian medicinal plants. 2020. Partners: Chulalongkorn University. Minister of Education of the Republic of Indonesia (BOPTN-UNAIR-RMKLN). IDR. Rp. 100.000.000,00/year</i> 4. <i>Induction of microspore embryogenesis of chili (Capsicum spp.): efforts to obtain quality pure line crossbreeds in one generation. 2020-2021. Minister of Education of the Republic of Indonesia (RISPRO/PRN/LPDP). IDR. Rp. 350.000.000,00/year</i> 5. <i>DNA barcoding, secondary metabolite profiles, and bioactivity tests of several asteraceae plants (Achillea millefolia L., Artemisia vulgare L., Eclipta alba L., Cosmos caudatus Kunth, Plunchea indica L.). 2021. Partners: Chulalongkorn University. Minister of Education of the Republic of Indonesia (BOPTN-UNAIR-RMKLN). IDR. Rp. 100.000.000,00/year</i> 6. <i>Ethnomedicine study and in silico anticovid-19 activity test of Indonesian medicinal plants in Javanese ethnic groups: efforts to search for anticovid-19 drug candidates.</i> 		

	<p>2021. Partners: Chulalongkorn University. Minister of Education of the Republic of Indonesia (BOPTN-UNAIR-Hibah Covid). IDR. Rp. 150.000.000,00/year</p> <p>7. Evaluation of botanical, molecular and plant metabolite profiles of food sources for honey-producing insects in Indonesia: efforts to find quality bee food sources and plant conservation. 2021. Partners: Chulalongkorn University. Minister of Education of the Republic of Indonesia (BOPTN-RKI). IDR. Rp. 60.000.000,00/year</p> <p>8. Production, isolation, and bioactivity testing of active compounds from tempuyung (<i>Sonchus arvensis</i> L.) tissue culture: efforts to produce medicinal compounds using tissue culture. 2022. Partners: Chulalongkorn University and USM. Minister of Education of the Republic of Indonesia (BOPTN-UNAIR-Hibah Tier One). IDR. Rp. 225.000.000,00/year</p> <p>9. Botanical, molecular, metabolomic, and bioactivity analysis of lemongrass plants (<i>Cymbopogon</i> spp.) in Indonesia: efforts to determine quality standards for Indonesian medicinal plants. 2022. Partners: Chulalongkorn University. Minister of Education of the Republic of Indonesia (BOPTN-Unair-Hibah Top 300). IDR. Rp. 90.000.000,00/year</p> <p>10. Products and plant sources of food for honeybees: ethnomedical study in the Javanese ethnic group. 2022. Partners: Chulalongkorn University. Minister of Education of the Republic of Indonesia (BOPTN-RKI). IDR. Rp. 60.000.000,00/year</p> <p>11. Increasing the production of antioxidant and anti-cancer compounds in <i>Sonchus arvensis</i> L. plants through cell suspension culture and hairy root culture: efforts to mass produce medicinal compounds. 2023. Partners: Chulalongkorn University and UPM. Minister of Education of the Republic of Indonesia (BOPTN-Unair-Hibah Top 300). IDR. Rp. 92.500.000,00/year</p> <p>12. Exploration of inhibitor agents for non-structural protein (NS) in dengue virus (DENV) in tempuyung (<i>Sonchus arvensis</i> L.) leaf extracts through in vitro and in silico approaches: an effort to find new DENV antivirals from Indonesian natural ingredients. 2023. Partners: UM. Minister of Education of the Republic of Indonesia (BOPTN-Unair-Hibah Top 300). IDR. Rp. 97.500.000,00/year</p> <p>13. The exploration of <i>Sonchus arvensis</i> L. for phytochemical screening and anti-dengue fever (DHF). 2023. Partners: UM, USM, UITM, and Sun Yat-Sen University. Minister of Education of the Republic of Indonesia (BOPTN-Unair-SATU Joint Research). IDR. Rp. 70.000.000,00/year</p> <p>14. Optimization of microspore culture techniques to produce local pure lines of tobacco (<i>Nicotiana tabacum</i> L.) with superior characteristics: metabolomics and calcium dynamics studies on the induction of tobacco microspore embryogenesis. 2023. Partners: UM. Minister of Education of the Republic of Indonesia (BOPTN-Unair-Hibah Top 300). IDR. Rp. 97.500.000,00/year</p> <p>15. Glutamine and methyl jasmonate for enhancing the metabolite production of <i>Sonchus arvensis</i> L. Culture under LED treatment. 2023. Partners: UM, and USM. Minister of Education of the Republic of Indonesia (BOPTN-Unair-SATU Joint Research). IDR. Rp. 70.000.000,00/year</p> <p>16. Method establishment of bioactive compound production from <i>Sonchus arvensis</i> L. culture under calcium chloride treatment: insight metabolomic, transcriptomic, and computational pathway analysis. 2023. Partners: UM. Minister of Education of the Republic of Indonesia (BOPTN-Unair-International Research Network). IDR. Rp. 150.000.000,00/year</p>
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Industry collaborations over the last 5 years	<p>Project title: Plant Medicinal Conservation (Medicinal Plant Graden “Taman Husada Graha Famili)</p> <p>Partners: PT. Intiland Development Tbk.</p>					
Patents and proprietary rights	<table border="1"> <thead> <tr> <th data-bbox="534 351 1246 383">Title</th> <th data-bbox="1246 351 1522 383">Year</th> </tr> </thead> <tbody> <tr> <td data-bbox="534 461 1246 2038"> <p>Wahyuni, DK., Yoku, BF., Mukarromah, SR., Purnama, PR., Ilham, M., Rakashiwi, GA., Indriati, DT., Purnobasuki, H., Junairiah, Wacharasindhu, S., Prasongsuk, S. 2024. Unraveling the secrets of Eclipta alba (L.) Hassk: a comprehensive study of morpho-anatomy and DNA barcoding. <i>Brazilian Journal of Biology</i>. Accepted: 12:1</p> <p>Wahyuni, DK., Pradana, RAP., Wahyuningsih, SPA., Purnobasuki, H., Pramudya, M., Prasongsuk, S., Wacharasindhu, S., Atere, TG., 2024. Effect of Tempuyung (Sonchus arvensis L.) Leaf Extract on Kidney Histology of Mice Exposed to Plasmodium berghei. <i>Research J. Pharm. and Tech.</i> 17(1)</p> <p>Wahyuni, DK., Wacharasindhu, S., Bankeeree, W., Wahyuningsih, SPA, Ekasari, W., Purnobasuki, H., Punnapayak, H., and Prasongsuk, S. 2023. 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Important publications over the last 5 years						

	<p><i>Saputro, TB., Muslihatin, W., Wahyuni, DK., Nurhidayati, T., Wardhani, FO., Rosalia, E. 2019. Variation induction of Glycine max through low dose gamma irradiation produces genetic and physiological alteration as source of tolerant variants in waterlogging conditions. Biodiversitas 20: 3299-3308.</i> https://doi.org/10.13057/biodiv/d201124</p>														
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<i>Indonesian Orchid Society</i>	<i>Member</i>	<i>2006-now</i>													
<i>American Botany Society</i>	<i>Member</i>	<i>2020-now</i>													
<i>Indonesian Biology Society</i>	<i>Member</i>	<i>2008-now</i>													

Name	Muhammad Hilman Fu'adil Amin
Post	Zoology, Molecular Biology
Academic career	<p>Doctorate (Industry 4.0 Bionics Engineering) Pukyong National University, South Korea 2022</p> <p>Graduate (Molecular Biology) Universitas Brawijaya, Indonesia 2011</p> <p>Undergraduate (Biology) Universitas Brawijaya, Indonesia 2009</p>
Employment	Assistant Professor Universitas Airlangga 2015-now
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 2023. Environmental DNA Application for Next Generation Biomonitoring of Fish Invasive Species in Freshwater Ecosystems. SATU Joint Research – Universitas Airlangga, University of Malaya. IDR 70M 2023. Exploring fish communities in the mud volcano polluted river using environmental DNA metabarcoding. Airlangga Research Fund. IDR 30M 2023. Optimization of Invertebrate eDNA Metabarcoding for NG Freshwater Biomonitoring. Airlangga Research Fund – Pukyong National University. 50M 2023. Enhancing the generation of electricity from polluted sediment by combining microalgae with bio-electrochemical systems. SATU Joint Research - Universiti Malaya and UCSI Malaysia. IDR 70M. 2020-2021. Biodiversity study of fish species in Korean rivers using eDNA metabarcoding analysis. NRF-Republic of Korea. 2020. Development of species-specific eDNA Assay for Salmonids. BK21-Pukyong National University. KRW 2M. 2019-2020. Anadromous Fish Monitoring using eDNA. FIRA- Republic of Korea.
Industry collaborations over the last 5 years	<p>Project title -</p> <p>Partners -</p>
Patents and proprietary rights	Title - Year -
Important publications over the last 5 years	<p>De Alwis, P.S., Kundu, S., Gietbong, F.Z., Amin, M.H.F.A., Lee, S.R., Kim, H.W. and Kim, A.R., 2023. Mitochondriomics of Clarias Fishes (Siluriformes: Clariidae) with a New Assembly of Clarias camerunensis: Insights into the Genetic Characterization and Diversification. <i>Life</i>, 13(2), p.482.</p> <p>Fu'adil Amin, M.H., Lee, J.H., Kim, A.R., Kim, J.K., Lee, C.I. and Kim, H.W., 2021. Development of a Quantitative PCR Assay for Four Salmon Species Inhabiting the Yangyangnamdae River Using Environmental DNA. <i>Biology</i>, 10(9), p.899.</p> <p>Jang, Y., Kim, A.R., Fu'adil Amin, M.H., Andriyono, S., Zuweh Jr, J.A. and Kim, H.W., 2021. The complete mitochondrial genome of the longneck croaker, <i>pseudotolithus typus</i> Bleeker, 1863 from Sierra Leone. <i>Mitochondrial DNA Part B</i>, 6(5), pp.1640-1641.</p> <p>Fu'adil Amin, M.H., Lee, S.R., Irawan, B., Andriyono, S. and Kim, H.W., 2021. Characterization of the complete mitochondrial genome of the Northern Mud Gudgeon, <i>Ophiocara porocephala</i> (Perciformes: Eleotridae) with phylogenetic implications. <i>Mitochondrial DNA Part B</i>, 6(3), pp.953-955.</p> <p>Fu'adil Amin, M.H., Tabassum, N., Kim, A.R., Lee, D.S. and Kim, H.W., 2020. Mitogenome Announcement Characterization of the complete mitochondrial genome of golden tank goby, <i>Glossogobius aureus</i> (Perciformes: Gobiidae). <i>Mitochondrial DNA Part B</i>, 5(4), pp.3817-3818.</p> <p>Amin, M.H.F.A., Syukriya, A.J., Irawan, B., Pratiwi, A.I., Muttaqin, Z. and Winarni, D., 2020. Taxonomic redescription of <i>Colochirus quadrangularis</i> (Echinodermata: Holothuroidea) from Surabaya Coastal Waters (East Java, Indonesia) with notes on</p>

	<p><i>new distinctive haplogroup of COI gene. Ecology, Environment and Conservation, 26(4), pp.1617-1622.</i></p> <p><i>Hayati, A., Wulansari, E., Armando, D.S., Sofiyanti, A., Amin, M.H.F.A. and Pramudya, M., 2019. Effects of in vitro exposure of mercury on sperm quality and fertility of tropical fish Cyprinus carpio L. The Egyptian Journal of Aquatic Research, 45(2), pp.189-195.</i></p> <p><i>Amin, M.H.F.A., Rahmawati, Y. and Irawan, B., 2019. RAPD fingerprinting of snakehead fish (Channa striata) in Brantas Watershed, East Java, Indonesia. Ecology, Environment and Conservation, 25, pp.S18-S23.</i></p> <p><i>Amin, M.H.F.A., Nisa, N. and Irawan, B., 2019. New haplotypes of black-bearded tomb bat (Taphozous melanopogon) from puncakwangi cave (east java, indonesia). Ecology, Environment and Conservation, 25(7), pp.S194-S198.</i></p> <p><i>Amin, M.H.F.A., Andriyani, A.P., Sari, S.T., Pratiwi, I.A., Suhargo, L. and Irawan, B., 2019. First report of amblyomma sp. Collected from varanus salvator in baluran national park identified by DNA barcoding. Ecology, Environment and Conservation, 25, pp.S90-S95.</i></p> <p><i>Hayati, A., Rasyad, M.F.M., Putra, I.D.S., Nurhariyati, T., Amin, M.H.F.A., Putranto, T.W.C., Wanguyun, A.P. and Affandi, M., 2019. Morphometric variations of fish from Brantas river, East Java, Indonesia. Ecology, Environment and Conservation, 25(2019), pp.57-61.</i></p> <p><i>Amin, M.H.F.A., Hayati, A., Darmanto, W. and Pramudya, M., 2019. DNA barcoding of invasive freshwater fish reveals two species of amphilophus from two dams in Brantas Stream, East Java, Indonesia. Ecology, Environment and Conservation, 25(7), pp.S141-S145.</i></p>						
<p>Activities in specialist bodies over the last 5 years</p>	<table border="0"> <tr> <td data-bbox="536 958 821 1059"><i>Indonesian Society of Bioinformatics and Biodiversity (MABBI)</i></td> <td data-bbox="821 958 1125 1059"><i>Member</i></td> <td data-bbox="1125 958 1471 1059"><i>2022-now</i></td> </tr> <tr> <td data-bbox="536 1059 821 1240"><i>Indonesian Genetic Biodiversity Community</i></td> <td data-bbox="821 1059 1125 1240"><i>member</i></td> <td data-bbox="1125 1059 1471 1240"><i>2019-now</i></td> </tr> </table>	<i>Indonesian Society of Bioinformatics and Biodiversity (MABBI)</i>	<i>Member</i>	<i>2022-now</i>	<i>Indonesian Genetic Biodiversity Community</i>	<i>member</i>	<i>2019-now</i>
<i>Indonesian Society of Bioinformatics and Biodiversity (MABBI)</i>	<i>Member</i>	<i>2022-now</i>					
<i>Indonesian Genetic Biodiversity Community</i>	<i>member</i>	<i>2019-now</i>					

Name	<i>Almando Gerald, S.Si., Ph.D.</i>		
Post	<i>Microbiology, Molecular Biology</i>		
Academic career	<i>Doctorate (Biological Sciences)</i>	<i>Korea Advanced Institute of Science and Technology, South Korea</i>	<i>2017</i>
	<i>Undergraduate (Microbiology)</i>	<i>Institut Teknologi Bandung, Indonesia</i>	<i>2008</i>
Employment	<i>Assistant Professor</i>	<i>Universitas Airlangga</i>	<i>2018-now</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. 2023. <i>Study on Resistance Pattern of Staphylococcus aureus and Escherichia coli against Methanolic Extract of Indonesian Medicinal Plants Using Adaptive Evolution Techniques. SATU Joint Research. IDR 70M</i> 2. 2023. <i>The analysis of microbial community and isolation of gentamicin-degrading bacteria from hospital waste water treatment plants in Indonesia and Malaysia. In International Research Network, Universitas Airlangga. IDR 99.5M</i> 3. 2023. <i>Testing Antibacterial Activity of Methanol Extracts of Rhizomes of Zingiberaceae Family from Indonesia: Efforts to Develop Antibacterial Drugs Based on Natural Materials. Airlangga Research Fund, Universitas Airlangga. 29.75M</i> 4. 2022. <i>Biodiversity and Microbial Community Structure in Parangkusumo Sand Dunes, Indonesia and Mui Ne Sand Dunes, Vietnam. Airlangga Research Fund, Universitas Airlangga. IDR 45M.</i> 5. 2020-2021. <i>Development of Portable Detection Kit Based on RNA Biosensor for Covid-19. Kemenristek/BRIN and LPDP. 340M</i> 6. 2020. <i>he analysis of microbial community and isolation of ciprofloxacin-degrading bacteria from hospital waste water treatment plants in Indonesia and Malaysia. Airlangga Research Fund, Universitas Airlangga. IDR 100M.</i> 7. 2020. <i>Bioprospecting Bacteria Producing Thermostable Lipase and 6-Glucosidase Enzymes in Cangar Hot Springs. Airlangga Research Fund, Universitas Airlangga. IDR 20M.</i> 		
Industry collaborations over the last 5 years	<p><i>Project title -</i></p> <p><i>Partners -</i></p>		
Patents and proprietary rights	<ol style="list-style-type: none"> 1. <i>Recombinant Plasmid for Production of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Mutant Spike Protein</i> <i>Indonesian Patent P00202104611 – 2022</i> 2. <i>Recombinant Plasmid Encoding Synthetic Messenger RNA for The Detection of Conserved Regions at Nucleotides 28384-28413 of the SARS-CoV-2 Genome.</i> <i>Indonesian Patent S00202104442 – 2022</i> 3. <i>Recombinant Plasmid Encoding Synthetic Messenger RNA for The Detection of Conserved Regions at Nucleotides 28385-28414 of the SARS-CoV-2 Genome.</i> <i>Indonesian Patent S00202104443 – 2022</i> 		

	<p>4. <i>Recombinant Plasmid Encoding Synthetic Messenger RNA for The Detection of Conserved Regions at Nucleotides 28386-28415 of the SARS-CoV-2 Genome.</i></p> <p>5. <i>Composition for solubilizing target protein and use thereof</i></p>	<p>Indonesian Patent S00202104444 – 2022</p> <p>US Patent Application 15/884,543</p>
<p>Important publications over the last 5 years</p>	<p>Tay, C. C., Razali, I. A., Haikal, N. K. S. K. G., Kasri, S. S., & Gerald, A. (2023). <i>Bioremediation of Carbamazepine using Bacteria: A Review</i>. <i>Journal of Advanced Research in Applied Sciences and Engineering Technology</i>, 30(3), 236-243. https://doi.org/10.37934/araset.30.3.236243</p> <p>Gerald, A., Famunghui, M., Abigail, M., Siona Saragih, C. F., Febitania, D., Elmarthenez, H., Putri, C. A., Putri Merdekawati, U. A. S., Sadila, A. Y., & Wijaya, N. H. (2022). <i>Screening of antibacterial activities of Bacillus spp. isolated from the Parangkusumo coastal sand dunes, Indonesia</i>. <i>BIO Integration</i>, 3(3), 132-137. https://doi.org/10.15212/bioi-2022-0005</p> <p>Vu, M. T., Gerald, A., Do, H. D. K., Luqman, A., Nguyen, H. D., Fauzia, F. N., Amalludin, F. I., Sadila, A. Y., Wijaya, N. H., Santoso, H., Manuhara, Y. S. W., Bui, L. M., Hariyanto, S., & Wibowo, A. T. (2022). <i>Soil Mineral Composition and Salinity Are the Main Factors Regulating the Bacterial Community Associated with the Roots of Coastal Sand Dune Halophytes</i>. <i>Biology</i>, 11(5), Article 695. https://doi.org/10.3390/biology11050695</p> <p>Gerald, A., Wardana, A. P., Aminah, N. S., Kristanti, A. N., Sadila, A. Y., Wijaya, N. H., Wijaya, M. R. A., Diningrum, N. I. D., Hajar, V. R., & Manuhara, Y. S. W. (2022). <i>Tropical Medicinal Plant Extracts from Indonesia as Antifungal Agents against Candida Albicans</i>. <i>Frontiers in Bioscience - Landmark</i>, 27(9), Article 274. https://doi.org/10.31083/j.fbl2709274</p> <p>Gerald, A., Puspaningsih, N. N. T., & Khairunnisa, F. (2022). <i>Update on the Development of Toehold Switch-Based Approach for Molecular Diagnostic Tests of COVID-19</i>. <i>Journal of Nucleic Acids</i>, 2022, Article 7130061. https://doi.org/10.1155/2022/7130061</p> <p>Gerald, A., Khairunnisa, F., Farah, N., Bui, L. M., & Rahman, Z. (2021). <i>Synthetic scaffold systems for increasing the efficiency of metabolic pathways in microorganisms</i>. <i>Biology</i>, 10(3), Article 216. https://doi.org/10.3390/biology10030216</p> <p>Gerald, A., Tay, C. C., Ni'matuzahroh, Fatimah, & Hanafi, W. N. W. (2021). <i>Unraveling the bacterial diversity of cangar hot spring, indonesia by next generation sequencing of 16s rRNA gene</i>. <i>Biodiversitas</i>, 22(9), 4060-4066. https://doi.org/10.13057/biodiv/d220955</p> <p>Gerald, A. (2020). <i>Advances in the Production of Minor Ginsenosides Using Microorganisms and Their Enzymes</i>. <i>BIO Integration</i>, 1(1), 15-24. https://doi.org/10.15212/bioi-2020-0007</p> <p>Gerald, A., Ni'matuzahroh, Fatimah, Cui, C. H., Nguyen, T. T., & Kim, S. C. (2020). <i>Enzymatic biotransformation of ginsenoside Rb1 by recombinant β-glucosidase of bacterial isolates from Indonesia</i>. <i>Biocatalysis and Agricultural Biotechnology</i>, 23, Article 101449. https://doi.org/10.1016/j.bcab.2019.101449</p> <p>Bui, L. M., Gerald, A., Nguyen, T. T., Lee, J. H., Lee, J. Y., Cho, B. K., & Kim, S. C. (2019). <i>MRNA engineering for the efficient chaperone-mediated co-translational folding of recombinant proteins in escherichia coli</i>. <i>International Journal of Molecular Sciences</i>, 20(13), Article 3163. https://doi.org/10.3390/ijms20133163</p>	
<p>Activities in specialist bodies over the last 5 years</p>		

Industry collaborations over the last 5 years													
Patents and proprietary rights	<i>Title</i> EPIGENETICALLY STABLE CLONED PLANTS <i>Year</i> 2016												
Important publications over the last 5 years	<p><i>Fermentation in Minimal Media and Fungal Elicitation Enhance Violacein and Deoxyviolacein Production in Two Janthinobacterium Strains. Fermentation 8 (12), 714</i></p> <p><i>Differences in bacterial composition between vascular epiphyte and parasitic plants living on the same host plants. Biodiversitas Journal of Biological Diversity 23 (11)</i></p> <p><i>Predictable and stable epimutations induced during clonal plant propagation with embryonic transcription factor. PLoS Genetics 18 (11), e1010479</i></p> <p><i>Effects of Microplastic on Human Gut Microbiome: Detection of Plastic-Degrading Genes in Human Gut Exposed to Microplastics—Preliminary Study. Environments 9 (11), 140</i></p> <p><i>Soil mineral composition and salinity are the main factors regulating the bacterial community associated with the roots of coastal sand dune halophytes. Biology 11 (5), 695</i></p> <p><i>Microplastic contamination in human stools, foods, and drinking water associated with Indonesian coastal population. Environments 8 (12), 138</i></p> <p><i>Microplastic contamination in the human gastrointestinal tract and daily consumables associated with an Indonesian farming community. Sustainability 13 (22), 12840</i></p> <p><i>The underlying nature of epigenetic variation: Origin, establishment, and regulatory function of plant epialleles. International Journal of Molecular Sciences 22 (16), 8618</i></p> <p><i>Analysis of morphological characteristics and phenetic relationship of ebony (Diospyros spp.) in Indonesia. Biodiversitas Journal of Biological Diversity 22 (7)</i></p> <p><i>Fermentation of Jamaican cherries juice using Lactobacillus plantarum elevates antioxidant potential and inhibitory activity against Type II diabetes-related enzymes. Molecules 26 (10), 2868</i></p> <p><i>A new role for histone demethylases in the maintenance of plant genome integrity. Elife 9, e58533</i></p>												
Activities in specialist bodies over the last 5 years	<table border="1"> <thead> <tr> <th>Organisation</th> <th>Role</th> <th>Period</th> </tr> </thead> <tbody> <tr> <td>Gene Reports</td> <td>Editorial Boards</td> <td>2022-now</td> </tr> <tr> <td>Polytechnic Journal</td> <td>Editorial Boards</td> <td>2023-now</td> </tr> <tr> <td>Association of Indonesian Biology Teacher and Researcher</td> <td>Member</td> <td>2019-now</td> </tr> </tbody> </table>	Organisation	Role	Period	Gene Reports	Editorial Boards	2022-now	Polytechnic Journal	Editorial Boards	2023-now	Association of Indonesian Biology Teacher and Researcher	Member	2019-now
Organisation	Role	Period											
Gene Reports	Editorial Boards	2022-now											
Polytechnic Journal	Editorial Boards	2023-now											
Association of Indonesian Biology Teacher and Researcher	Member	2019-now											

Name	<i>Firli Rahmah Primula Dewi, M.Si., Ph.D</i>		
Post	<i>Zoology</i>		
Academic career	<i>Initial academic appointment</i>	<i>Universitas Airlangga</i>	<i>2019</i>
	<i>Doctorate (Biology-Cell Bionomics)</i>	<i>Kanazawa University</i>	<i>2015-2018</i>
	<i>Undergraduate degree (Biology)</i>	<i>Brawijaya University</i>	<i>2008-2012</i>
Employment	<i>Assistant Professor</i>	<i>Universitas Airlangga</i>	<i>2019-now</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <i>Hibah riset mandat dosen muda Universitas Airlangga, 20201: Pemanfaatan nanodiamond sebagai carrier senyawa bioaktif dari bahan herbal untuk terapi kanker (200 million IDR).</i> <i>Hibah penulisan article review Universitas Airlangga, 2020 (50 million IDR)</i> <i>Hibah SATU-JRS 2021: Development of quercetin PEG-ylated nanodiamonds to inhibit tumor growth in colon cancer (70 million IDR).</i> <i>Hibah SATU-JRS 2022: Anti-cancer activity of inclusion complex carotenoids with beta-cyclodextrin to the growth of colon cancer cells (70 million IDR).</i> <i>Hibah SATU-JRS 2022: Development of green synthesized polysaccharide-based silver nanoparticles from selected plants for pharmacological assays (70 million IDR).</i> <i>Hibah Program Pendanaan Riset dan Inovasi untuk Indonesia Maju (RIIM) kolaborasi UNAIR-BRIN 2023-2025 (250 million IDR/year).</i> <i>Hibah SATU-JRS 2023: Green Synthesis of Gold Nanoparticles Using Plant Extracts for Anticancer Therapy (70 million IDR).</i> 		
Industry collaborations over the last 5 years	<i>None</i>		
Patents and proprietary rights	<i>Title</i>	<i>Year</i>	
	<i>Description of Model for Nup58 Protein Localization and its Function During Cytokinesis</i>	<i>2023</i>	
Important publications over the last 5 years	<ol style="list-style-type: none"> <i>Kogilavane Devavarayan, Batoul Alallam, Muhammad Amir Yunus, Firli Rahmah Primula Dewi, Nik Nur Syazni Nik Mohamed Kamal, Vuanghao Lim. 2023. Microwave-assisted green synthesis of silver nanoparticles using alkaline extracted crude polysaccharide of <i>C. Nutans</i>: Optimisation, characterisation, toxicity, anticancer potential and antibacterial studies. <i>Journal of Drug Delivery Science and Technology</i> 86: 104688.</i> <i>Firli Rahmah Primula Dewi, Vuanghao Lim, Fatimah Fatimah, Sri Puji Astuti Wahyuningsih, Umami Zubaidah. 2023. Characterization of silver nanoparticles (AgNPs) synthesized from Piper ornatum leaf extract and its activity against food borne pathogen Staphylococcus aureus. <i>Biodiversitas Journal of Biological Diversity</i> 24(3).</i> <i>Zhi Xuan Low, Michelle Yee Mun Teo, Fariza Juliana Nordin, Firli Rahmah Primula Dewi, Vijayaraj Kumar Palanirajan, Lionel Lian Aun In. 2022. Biophysical Evaluation of Water-Soluble Curcumin Encapsulated in β-Cyclodextrins on Colorectal Cancer Cells. <i>International Journal of Molecular Sciences</i> 23(21): 12866.</i> <i>Elma Sakinatus Sajidah, Keesiang Lim, Tomoyoshi Yamano, Goro Nishide, Yujia Qiu, Takeshi Yoshida, Hanbo Wang, Akiko Kobayashi, Masaharu Hazawa, Firli RP Dewi, Rikinari Hanayama, Toshio Ando, Richard W Wong. 2022. Spatiotemporal tracking of</i> 		

	<p><i>small extracellular vesicle nanotopology in response to physicochemical stresses revealed by HS-AFM. Journal of Extracellular Vesicles 11(11): 12275.</i></p> <ol style="list-style-type: none"> 5. Firli Rahmah Primula Dewi, Sri Puji Astuti Wahyuningsih, Rasyidah Fauzia Ahmar, Na'ilah Insani Alifiyah, Vuanghao Lim, Muhammad Darwin Prenggono. 2022. <i>Enhancing The Anticancer Activity of Squamocin for Breast Cancer Treatment Using Nanodiamond Nanoparticles: an In Vivo Study. HAYATI Journal of Bioscience 30 (1), 131-139</i> 6. Firli Rahmah Primula Dewi, Nadia Shoukat, Na'ilah Insani Alifiyah, Sri Puji Astuti Wahyuningsih, Muhammad Darwin Prenggono, Hartono Hartono. 2022. <i>Increasing the Effect of Annonacin Using Nanodiamond to Inhibit Breast Cancer Cells Growth in Rats (Rattus norvegicus)-Induced Breast Cancer. Heliyon. https://doi.org/10.1016/j.heliyon.2022.e11418.</i> 7. Sri Puji Astuti Wahyuningsih, Firli Rahmah Primula Dewi, Amy Saik Yi Hsan, Looi Mee Lee, Vuanghao Lim, Lionel In Lian Aun, Tau Chuan Ling, Sephia Tiara Marviella. 2022. <i>The regulation of Hypoxia Inducible Factor (HIF)1α Expression by Quercetin: an In Silico Study. Acta Informatica Medica. 30(2), pp. 96–99.</i> 8. Manikya Pramudya, Firli Rahmah Primula Dewi, Richard W Wong, Devinta Wahyu Anggraini, Dwi Winarni, Sri Puji Astuti Wahyuningsih. 2022. <i>Anti-cancer activity of ethanolic extract of red okra pods (Abelmoschus esculentus L. Moench) on rats induced by n-methyl-nitrosourea. Veterinary World, 15 (5): 1177-1184.</i> 9. Nabilatun Nisa, Sri Puji Astuti Wahyuningsih, Win Darmanto, Putut Rakhmad Purnama, Firli Rahmah Primula Dewi, Tipuk Soegiarti, Deya Karsari. 2022. <i>Effect of The Ethanol Extract of Red Okra Pods (Abelmoschus esculentus L. Moench) to Inhibit Cervical Cancer Growth Through Cells Cycle-Associated Oncogenes. Scientifica. 2022, 1094771.</i> 10. A Hayati, M Pramudya, H Soepriandono, AR Astri, MR Kusuma, S Maulidah, W Adriansyah, FRP Dewi. <i>Assessing the recovery of steroid levels and gonadal histopathology of tilapia exposed to polystyrene particle pollution by supplementary feed. Veterinary World, 2022; 15 (2): 517-523.</i> 11. Firli Rahmah Primula Dewi, Rasyidah Fauzia Ahmar, Na'ilah Insani Alifiyah, Nadia Shoukat, Sri Puji Astuti Wahyuningsih. <i>The potential of A. Muricata bioactive compounds to Inhibit HIF1α Expression Via Disruption of Tyrosine Kinase Receptor Activity: an In Silico Study. Acta Informatica Medica, 2021; 29(3):176-181.</i> 12. Firli R P Dewi, et al. <i>Nucleoporin TPR (translocated promoter region, nuclear basket protein) upregulation alters MTOR-HSF1 trails and suppresses autophagy induction in ependymoma. Autophagy, 2021; 17 (4): 1001-1012.</i> 13. H Hartono, M Hazawa, KS Lim, FRP Dewi, A Kobayashi, RW Wong. <i>Nucleoporin Nup58 localizes to centrosomes and mid-bodies during mitosis. Cell division, 2019; 14 (1): 1-13.</i> 		
Activities in specialist bodies over the last 5 years	<p>Organisation</p> <p>Gene Reports Journal (Elsevier)</p>	<p>Role</p> <p>Scientific Editor</p>	<p>Period</p> <p>(2022-present)</p>

Name	<i>Manikya Pramudya, S.Si., M.Si.</i>		
Post	<i>Zoology, Animal Physiology, Entomology</i>		
Academic career	<i>Master (Biology)</i>	<i>Universitas Airlangga, Indonesia</i>	<i>2018</i>
	<i>Bachelor (Biology)</i>	<i>Universitas Airlangga, Indonesia</i>	<i>2016</i>
Employment	<i>Lecturer</i>	<i>Department of Biology, Faculty of Science and Technology, Universitas Airlangga</i>	<i>2018-now</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. <i>2023 – 2024 Exploration of Cinnamomum sp. as an additive compound in glycolipid metabolism regulation of rats exposed to polystyrene nanoplastics. Head of the research project: Prof. Dr. Alfiah Hayati, M.Kes.</i> 2. <i>2023 – 2024 Cinnamomum sp. potential as hepatoprotector for rats (Rattus norvegicus) due to nanoplastics toxicity. Head of the research project: Prof. Dr. Alfiah Hayati, M.Kes.</i> 3. <i>2022 – 2023 Potency of supplementary feed on immunity and reproduction health of freshwater fish exposed to micro and nanoplastic compounds. Head of the research project: Prof. Dr. Alfiah Hayati, M.Kes.</i> 4. <i>2022 – 2023 Potency of supplementary feed on immunity and reproduction health of freshwater fish exposed to micro and nanoplastic compounds. Head of the research project: Prof. Dr. Alfiah Hayati, M.Kes.</i> 5. <i>2021 – 2022 Potency of Probiotic Supplementary Feed Against Steroid Levels and Gonad Histopathology of Freshwater Fish Exposed to Microplastics. Head of the research project: Prof. Dr. Alfiah Hayati, M.Kes.</i> 6. <i>2021 – 2022 Antioxidant potential of red okra (Abelmoschus esculentus L. Moench) to repair ren tubulus of Rattus norvegicus after N-Methyl-Nitrosourea exposure. Head of the research project: Prof. Dr. Sri Puji Astuti W., M.Si.</i> 7. <i>2020 – 2021 Anti-cancer activity of red okra pods (Abelmoschus esculentus) in rats exposed by MNU. Head of the research project: Prof. Dr. Sri Puji Astuti W., M.Si.</i> 8. <i>2018 – 2019 Potention of Brotowali (Tinospora crispa) leaves and stem as biolarvacide against Aedes aegypti. Head of research project: Manikya Pramudya, S.Si., M.Si.</i> 		
Industry collaborations over the last 5 years	<p><i>Project title -</i></p> <p><i>Partners -</i></p>		
Patents and proprietary rights	-		
Important publications over the last 5 years	<ul style="list-style-type: none"> ▪ <i>Sri Puji Astuti Wahyuningsih, Manikya Pramudya, Intan Permata Putro, Nadyatul Ilma Indah Savira, Dwi Winarni, Win Darmanto. 2018. Crude polysaccharides from okra pods (Abelmoschus esculentus) grown in Indonesia enhance the immune response due to bacterial infection. Advance in Pharmacological Science. 2018: 1-7.</i> ▪ <i>Alfiah Hayati, Erika Wulansari, Dhea Sanggita Armando, Ari Sofiyanti, Muhammad Hilman Fu'adil Amin, Manikya Pramudya. 2019. Effect of in vitro exposure of mercury on sperm quality and fertility of tropical fish Cyprinus Carpio L. Egyptian Journal of Aquatic Research. 45(2)</i> ▪ <i>Manikya Pramudya, Sri Puji Astuti Wahyuningsih. 2019. Immunomodulatory potential of polysaccharides from Coriolus versicolor against intracellular bacteria Neisseria gonorrhoeae. Veterinary World. 12(6): 735-739</i> 		

	<ul style="list-style-type: none"> ▪ <i>Muhammad Hilman Fu'adil Amin, Alfiah Hayati, Win Darmanto, Manikya Pramudya. 2019. DNA Barcoding of invasive freshwater fish reveals two species of Amphilopus from two dams in Brantas Stream, East Java, Indonesia. Ecology, Environment and Conservation. 141-145.</i> ▪ <i>Sri Puji Astuti Wahyuningsih, Siti Richa Isnaini, Dwi Winarni, Win Darmanto, Manikya Pramudya, Anni Mar'atun Nafi'ah, Khoirunnisa, Elma Sakinatus Sajidah and Baiq Naili Dewi Atika. 2020. The effect of okra pods (Abelmoschus esculentus L.) methanol extract on white blood cell count, phagocytic activity, and IFN-gamma level in mus musculus exposed sodium nitrite. Ecology, Environment and Conservation. 26: 41-48.</i> ▪ <i>Manikya Pramudya, Rosmanida, Nabilah Istighfari Zuraidassanaaz, Nadyatul Ilma Indah Savira, Elma Sakinatussajidah and Intan Permata Putri. 2020. Crude methanol extract of Brotowali leaves (Tinospora crispa) as biolarvacide against dengue vector Aedes aegypti. Ecology, Environment and Conservation. 26: 34-37.</i> ▪ <i>Sri Puji Astuti Wahyuningsih, Elma Sakinatus Sajidah, Baiq Naili Dewi Atika, Dwi Winarni, Manikya Pramudya. 2020. Hepatoprotective activity of okra (Abelmoschus esculentus L.) in sodium nitrite-induced hepatotoxicity. Veterinary World. 13(9): 1815-1821</i> ▪ <i>Alfiah Hayati, Tri Nurhariyati, Manikya Pramudya, Raden J. K. Susilo, Adamu A. Mwendolwa. 2020. Potential of probiotics and vitamin C on metallothionein and hematological parameters in tilapia (Oreochromis niloticus) affected by cadmium exposure. AACL Bioflux. 13(5): 3078-3085</i> ▪ <i>Manikya Pramudya, Alfiah Hayati, Dhea Sanggita Armando, Erika Wulansari, Raden J. K. Susilo. Toxicity of copper pollution on sperm quality of Cyprinus carpio. 2021. IOP Conference Series: Earth and Environmental Science. 718(1), 012019.</i> ▪ <i>Alfiah Hayati, Manikya Pramudya, Agus Supriyanto, Tri Nurhariyati, Suhailah Hayaza. 2021. The effect of diet supplement on Oreochromis niloticus (L) morphometrics in environments contaminated with cadmium. IOP Conference Series: Earth and Environmental Science. 718(1), 012005.</i> ▪ <i>Alfiah Hayati, Manikya Pramudya, Hari Soepriandono. 2021. The ability of probiotics to ameliorate blood and gonad damage caused by copper toxicity in Nile tilapia (Oreochromis niloticus). Veterinary World. 14(11): 2964-2970</i> ▪ <i>Manikya Pramudya, Firli Rahmah Primula Dewi, Richard W. Wong, Devinta Wahyu Anggraini, Dwi Winarni, and Sri Puji Astuti Wahyuningsih. 2022. Anti-cancer activity of an ethanolic extract of red okra pods (Abelmoschus esculentus L. Moench) in rats induced by N-methyl-N-nitrosourea. Veterinary World. 15(5): 1177-1184</i> ▪ <i>Alfiah Hayati, Manikya Pramudya, Hari Soepriandono, Aisyah Rizkyning Astri, Michael Ronaldi Kusuma, Sasanaqia Maulidah, Wahyu Adriansyah, and Firli Rahmah Primula Dewi. 2022. Assessing the recovery of steroid levels and gonadal histopathology of tilapia exposed to polystyrene particle pollution by supplementary feed. Veterinary World. 15(2): 517-523</i> ▪ <i>Y Rachmawati, M Pramudya, and A Setiawan. 2022. Distribution of the critically endangered javan blue-banded kingfisher Alcedo euryzona along the Welo River flow in the Petungkriyono forest. IOP Conference Series: Earth and Environmental Science. 976, 012004.</i> ▪ <i>Alfiah Hayati, Manikya Pramudya, Hari Soepriandono, Aliefia Maullani, Yulia Puspitasari, Sasanaqia Maulidah, Afrinda Dwi Wahyuni, Firli Rahmah Primula Dewi. 2022. Effect of medicinal plants rhizome on growth performance of tilapia (Oreochromis niloticus) exposed to micro plastics. AIP Conference Proceedings. 2554, 090012</i> ▪ <i>Triwahyudi, H., Soehargo, L., Muniroh, L., Qolbi, R. N., 'Aini, T. Q., Kurnia, R. F. Z., Putra, P. A., Pramudya, M., Muchtaromah, B., & Hayati, A. 2023. Potential of Red Seaweed (Dichotomania obtusata) on Immune Response and Histopathology of Rat Testis Exposed to Nanoplastics. 2023. Tropical Journal of Natural Product Research. 7(5): 2969-2973.</i>
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	<ul style="list-style-type: none">▪ <i>Alfiah Hayati, Manikya Pramudya, Hari Soepriandono, Listijani Suhargo, Firli Rahmah Primula Dewi, Bayyinatul Muchtaromah & Adamu Ayubu Mwendolwa. 2023. Supplementary Feed Potential on Histology and Immune Response of Tilapia (Oreochromis niloticus L.) Exposed to Microplastics. Sains Malaysiana. 52(6): 1607-1617</i>
Activities in specialist bodies over the last 5 years	-