

# Staff HANDBOOK

**Biology Study Programme**

Mulawarman University, Samarinda



# PREFACE

Welcome to the Biology Programme Staff Handbook at Mulawarman University. This handbook is designed as a comprehensive resource for all faculty members in the Biology Department. It aims to provide clear guidance on teaching, research, and administrative responsibilities, as well as the policies and practices that help us maintain a high standard of academic excellence.

As educators, researchers, and mentors, our role is not only to impart knowledge but also to cultivate a dynamic and collaborative environment for both students and faculty. This handbook outlines the expectations for faculty involvement in teaching and research, as well as the resources available to support professional development. It also offers an overview of the curriculum structure, research opportunities, and academic programs that define the Biology Department at Mulawarman University.

This handbook serves as a practical guide to support you throughout your academic career at Mulawarman University, providing information on topics ranging from course design and student engagement to research initiatives and faculty responsibilities. It is intended to foster transparency, promote communication, and facilitate the achievement of our department's goals.

We encourage all staff to refer to this handbook regularly as it will evolve with the needs of our department, ensuring we continue to provide exceptional education and contribute to the advancement of scientific knowledge. Together, we can shape the future of biology education and research, making a lasting impact on our students and the broader academic and professional communities.



# Faculty Profiles and Academic Expertise in the Biology Study Program



## Staff Handbook



Name	<i>Prof. Rudy Agung Nugroho, S.Si., M.Si., Ph.D.</i>		
Post	<i>Professor of Biology (Animal Physiology)</i>		
Academic career	<i>Doctorate (Environment and Agriculture)</i>	<i>Curtin University</i>	<i>2014</i>
	<i>Master's (Biology)</i>	<i>Gadjah Mada University</i>	<i>2001</i>
	<i>Undergraduate degree (Biology)</i>	<i>Atma Jaya University Yogyakarta</i>	<i>1997</i>
Employment	<i>Lecturer</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li>1. <i>Defatted maggot protein as an animal feed ingredient: Antioxidant enzyme activity test, blood profile, and histology of the digestive system in mice (2024). 108.070 million IDR. (Member)</i></li> <li>2. <i>Development of a Feed Additive Prototype for Poultry Based on Tiwai Onion (Eleutherine americana Merr) Using Nanoparticle Technology (2024). 68.430 million IDR. (Member)</i></li> <li>3. <i>Effectiveness Test of Stingless Bee Honey (Trigona itama) and Olive Oil (Olea europaea) Preparation on Wound Healing in Mice (Mus musculus) (2024). 12 million IDR. (Member)</i></li> <li>4. <i>Maggot Pupa Shell as a Nanoparticle Ointment Ingredient (Nano Chitosan): Testing Collagen Gene Expression, Total DNA, and Wound Healing Percentage (2024). 31.500 million IDR. (Member)</i></li> <li>5. <i>Anti-Angiogenic Activity of Tabat Barito Leaf Nanoparticles (Ficus deltoidea Jack) on Chicken Embryo Chorioallantoic Membrane Induced by Basic Fibroblast Growth Factor (bFGF) (2023). 182.007 million IDR. (Member)</i></li> <li>6. <i>Production of Bio-Jet Fuel/Jet Fuel Additives from Botryococcus braunii: Kinetics Study, Pyrolysis, and Catalytic Upgrading (2023). 104.450 million IDR. (Member)</i></li> <li>7. <i>Alternative Source of Fish Oil Replacement from Maggot Oil Cultivated on Palm Oil Waste Media Supplemented with Fructose (2023). 124.035 million IDR. (Leader)</i></li> <li>8. <i>Exploration of the Secondary Metabolites of Macaranga gigantea (RCHB.F &amp; ZOLL) MULL.ARG Fruit with Potential as a Source of Natural Medicinal Compounds (2023). 15 million IDR. (Member)</i></li> <li>9. <i>Pilot Project of Maggot Farming at PT. Berkah Salama Jaya, Cattle Fattening Center, Loa Janan, Kutai Kartanegara, East Kalimantan (2022). 941.270 million IDR. (Member)</i></li> </ol>		



	<p>10. <i>Test of the Potential of Tanikkara Leaf Extract (Dillenia excelsa (Jack) Martelli Ex Gilg) as a Natural Antibacterial and Antioxidant Agent (2022). 18 million IDR. (Member)</i></p> <p>The history can be viewed at the following:  <a href="https://scopus.com/record/display.uri?eid=2-s2.0-35191111111">Scopus ID: 55668386300</a>  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/5973879">https://sinta.kemdiktisaintek.go.id/authors/profile/5973879</a></p>												
<p>Industry collaborations over the last 5 years</p>	<p><i>Pilot Project of Maggot Farming at PT. Berkah Salama Jaya, Cattle Fattening Center, Loa Janan, Kutai Kartanegara, East Kalimantan</i></p>												
<p>Patents and proprietary rights</p>	<table border="0"> <tr> <td>1. <i>Video of the Pellet Feed Process for Broiler Chickens Made from Nanoparticle Tiwai Onion (Eleutherine americana Merr)</i></td> <td>2022</td> </tr> <tr> <td>2. <i>Module: Training on the Production of Alternative Fish Feed</i></td> <td>2022</td> </tr> <tr> <td>3. <i>Video Broadcast Work: "Preparation of Kohe Fermentation"</i></td> <td>2022</td> </tr> <tr> <td>4. <i>Steps for Using the H-7021 Hematology Analyzer</i></td> <td>2022</td> </tr> <tr> <td><i>Video Broadcast Work: Maggot Farming</i></td> <td>2022</td> </tr> <tr> <td>6. <i>Tutorial on Handling Test Animals: Mice</i></td> <td>2021</td> </tr> </table>	1. <i>Video of the Pellet Feed Process for Broiler Chickens Made from Nanoparticle Tiwai Onion (Eleutherine americana Merr)</i>	2022	2. <i>Module: Training on the Production of Alternative Fish Feed</i>	2022	3. <i>Video Broadcast Work: "Preparation of Kohe Fermentation"</i>	2022	4. <i>Steps for Using the H-7021 Hematology Analyzer</i>	2022	<i>Video Broadcast Work: Maggot Farming</i>	2022	6. <i>Tutorial on Handling Test Animals: Mice</i>	2021
1. <i>Video of the Pellet Feed Process for Broiler Chickens Made from Nanoparticle Tiwai Onion (Eleutherine americana Merr)</i>	2022												
2. <i>Module: Training on the Production of Alternative Fish Feed</i>	2022												
3. <i>Video Broadcast Work: "Preparation of Kohe Fermentation"</i>	2022												
4. <i>Steps for Using the H-7021 Hematology Analyzer</i>	2022												
<i>Video Broadcast Work: Maggot Farming</i>	2022												
6. <i>Tutorial on Handling Test Animals: Mice</i>	2021												
<p>Important publications over the last 5 years</p>	<ol style="list-style-type: none"> <li>1. <i>Manurung, H., Imam, R., Dwi, S., Muhammad, F. A. Retno, A., and Rudy, A. G. (2023). Antibacterial activity of leaves methanolic extract of Tanikkara (Dillenia excelsa (Jack) Martelli ex Gilg) against Salmonella typhi, Escherichia coli, Staphylococcus aureus and Bacillus cereus.. International Journal of Bioscience. 23(3): 185-192</i></li> <li>2. <i>Ariyanto, F., Nugroho, R.A., Aryani, R., Manurung, H. and Rudianto, R., 2023. Effect of Water Hyacinth Leaf Flour (Eichhornia crassipes) Fermented by Aspergillus niger on the Growth, Survival Rate and Blood Profile of Sangkuriang Catfish (Clarias gariepinus). Aceh Journal of Animal Science, 8(2), pp.52-57.</i></li> <li>3. <i>Hardi, E.H., Halim, A.M., Nugroho, R.A., Mawardj, M., Isnansetyo, A., Lusastuti, A.M., Rahayu, W., Niklani, A. and Saptiani, G., 2023. Pathogenicity test bacteria from Oreochromis niloticus and Clarias gariepinus aquaculture ponds. Indonesian Journal of Aquaculture, 22(1), pp.97-105.</i></li> <li>4. <i>Sari, Y.P., Suchi, A.Q. and Nugroho, R.A., 2023. Biosynthesis and Characterization of Silver Nanoparticles using Single Garlic Callus Extract (Allium sativum L.). Malaysian Journal of Fundamental and Applied Sciences, 19(4), pp.563-572.</i></li> <li>5. <i>Irwanto, M., Panggabean, P. and Nugroho, R.A., 2023. Banana Stem Waste (Musa Paradisiaca) as an H2S Adsorbent in Confined Spaces Using KOH Activation and FTIR (Fourier Transform Infrared) Characterization. Journal of Educational Review and Teaching (JRPP), 6(4), pp.626-632.</i></li> <li>6. <i>Aryani, R., Nugroho, R.A., Manurung, H., Sanjaya, A., Suprihanto, D., Sari, W., Sari, Y., Rudianto, R., Prahastika, W., Fadila, N. and Toimsar, I., 2023. Introduction to Maggot Farming for Cattle Farmers in Summersari Village, Loa Kulu, Kutai Kartanegara, East Kalimantan. Abditani Journal, 6(2), pp.144- 148.</i></li> <li>7. <i>Nugroho, R. A., Hindryawati, N., Aryani, R., Manurung, H., Sari, Y. P., Nurhadi, M., ... Prahastika, W. (2022). In vivo and in vitro assays using biosynthesized silver nanoparticles on Aeromonas hydrophila-infected Clarias gariepinus. Journal of Applied Aquaculture, 36(1), 170–192. <a href="https://doi.org/10.1080/10454438.2022.2130737">https://doi.org/10.1080/10454438.2022.2130737</a></i></li> <li>8. <i>Manurung, H., Dwi, S., Kusuma, R., Nugroho, R.A., Aryani, R., Setiawan, A. (2024). Allelopathic effects of lai (Durio kutejensis Hassk. Becc) leaf extract, on germination and early growth of weeds and crops, 63(1), 45 – 58,</i></li> </ol>												



	<p>10.26651/allelo.j/2024-63-1-1498</p> <p>9. Nugroho, R. , Aryani, R. , Hardi, E. , Manurung, H. , Rudianto, R. and Jati, W. (2024). Fermented palm kernel waste with different sugars as substrate for black soldier fly larvae. <i>Global Journal of Environmental Science and Management</i>, 10(2), 503-516. <a href="https://doi.org/10.22034/qjesm.2024.02.06">https://doi.org/10.22034/qjesm.2024.02.06</a></p> <p>10. Manurung, H., Dwi, S., Kusumawati, E., Aryani, R., Nugroho, R.A., Kusuma, R., Rahmawati, Z., Sari., R.D. (2022) Phytochemical, GC-MS analysis and antioxidant activities of leaf methanolic extract of <i>Lai (Durio kutejensis)</i>, the endemic plant of Kalimantan, Indonesia, 23(11), 5566-5573, <a href="https://doi.org/10.13057/biodiv/d231104">https://doi.org/10.13057/biodiv/d231104</a></p> <p>11. Nugroho, R. A., Aryani, R., Hardi, E. H., Manurung, H., Rudianto, R., Wirawan, N. A., &amp; Jati, W. N. (2023). Nutritive value, material reduction, biomass conversion rate, and survival of black soldier fly larvae reared on palm kernel meal supplemented with fish pellets and fructose. <i>International Journal of Tropical Insect Science</i>, 1-12.</p> <p>12. Santoso, A. D., Handayani, T., Nugroho, R. A., Yanuar, A. I., Nadirah, N., Rohaeni, E. S., &amp; Widiarta, G. D. (2023). Sustainability index analysis of the black soldier fly (<i>Hermetia illucens</i>) cultivation from food waste substrate. <i>Global Journal of Environmental Science and Management</i>, 9(4), 851-870.</p> <p>13. Aryani, R., Nugroho, R. A., Manurung, H., Rulimada, M. H., Maytari, E., Siahaan, A., &amp; Jati, W. N. (2023). Anti-angiogenic activity of <i>Ficus deltoidea</i> L. Jack silver nanoparticles using chorioallantoic membrane assay. <i>F1000Research</i>, 12, 544.</p>		
<p>Activities in specialist bodies over the last 5 years</p>	<p><i>World Aquaculture Society</i></p> <p><i>Indonesian Society for Biodiversity and Bioinformatics</i></p>	<p><i>Member</i></p> <p><i>Member</i></p>	<p><i>Present</i></p> <p><i>Present</i></p>



# Staff Handbook



Name	Prof. Dr. Hetty Manurung, S.Si., M.Si.		
Post	Professor of Biology (Plant Physiology)		
Academic career	Doctorate (Forestry)	Mulawarman University	2018
	Master's (Biology)	IPB University	2002
	Undergraduate degree (Biology)	University of North Sumatra	1996
Employment	Lecturer	Faculty of Mathematics and Natural Sciences	Present
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li>Defatted maggot protein as an animal feed ingredient: Antioxidant enzyme activity test, blood profile, and histology of the digestive system in mice (2024). 108.070 million IDR. (Member)</li> <li>Allelopathic and Phytotoxic Activity Test of Tabat Barito Leaf Extract (<i>Ficus deltoidea</i> Jack) on Germination and Growth of Pletekan Weed (<i>Ruellia tuberosa</i> L.) (2023). 15 million IDR. (Member)</li> <li>Anti-Angiogenic Activity of Tabat Barito Leaf Nanoparticles (<i>Ficus deltoidea</i> Jack) on Chicken Embryo Chorioallantoic Membrane Induced by Basic Fibroblast Growth Factor (bFGF) (2023). 182.007 million IDR. (Member)</li> <li>Pilot Project of Maggot Farming at PT. Berkah Salama Jaya, Cattle Fattening Center, Loa Janan, Kutai Kartanegara, East Kalimantan (2022). 941.270 million IDR. (Member)</li> <li>Test of the Potential of Tanikkara Leaf Extract (<i>Dillenia excelsa</i> (Jack) Martelli Ex Gilg) as a Natural Antibacterial and Antioxidant Agent (2022). 18 million IDR. (Member)</li> <li>Anti-Angiogenic Activity of Tabat Barito Leaf Nanoparticles (<i>Ficus deltoidea</i> Jack) on Chicken Embryo Chorioallantoic Membrane Induced by Basic Fibroblast Growth Factor (bFGF) (2022). 173.500 million IDR. (Member)</li> </ol>		





## Staff Handbook



Name	Prof. Dr. Dra. Hj. Ratna Kusuma, M.Si.		
Post	Professor of Biology (Plant Morphology)		
Academic career	Doctorate (Forestry)	Mulawarman University	2016
	Master's (Pharmaceutical Biology)	Airlangga University	2001
	Undergraduate degree (Biology Education)	Mulawarman University	1989
Employment	Dean	Faculty of Mathematics and Natural Sciences	Present
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li>1. Allelopathic and Phytotoxic Activity Test of Tabat Barito Leaf Extract (<i>Ficus deltoidea</i> Jack) on Germination and Growth of Pletekan Weed (<i>Ruellia tuberosa</i> L.) (2023). 12 million IDR. (Member)</li> <li>2. Exploration of the Secondary Metabolites of <i>Macaranga gigantea</i> (RCHB.F &amp; ZOLL) MULL.ARG Fruit with Potential as a Source of Natural Medicinal Compounds (2023). 15 million IDR. (Member)</li> <li>3. Vertical Farming Development as an Empowerment Effort for Housewives in Gn. Kelua Village, Samarinda (A Solution for Vertical Farming in Limited Land) (2022). 15 million IDR. (Leader)</li> <li>4. Evaluation of Growth, Nutrient Requirements, and Planting Pattern Development of <i>Macaranga</i> as a Raw Material for Ethanol (2019). 98.500 million IDR. (Member)</li> <li>5. Application of In-vitro Culture Technology of <i>Piper aduncum</i> L. for Biomass Production of Secondary Metabolites as Larvicidal Agents Against <i>Aedes aegypti</i> Mosquitoes (2018). 76.050 million IDR. (Leader)</li> <li>6. Evaluation of Growth, Nutrient Requirements, and Planting Pattern Development of <i>Macaranga</i> as a Raw Material for Ethanol Production (2018). 100 million IDR. (Member)</li> </ol> <p>The history can be viewed at the following:  Scopus ID: 57981047100  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6671958">https://sinta.kemdiktisaintek.go.id/authors/profile/6671958</a></p>		





## Staff Handbook



Name	Prof. Dr. Retno Aryani, S.Si., M.Si.		
Post	Professor of Biology (Animal Anatomy and Histology)		
Academic career	Doctorate (Biology)	Gadjah Mada University	2017
	Master's (Biology)	Gadjah Mada University	2002
	Undergraduate degree (Biology)	Gadjah Mada University	1997
Employment	Lecturer	Faculty of Mathematics and Natural Sciences	Present
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li>1. <i>Micro/Nano Chitosan of Maggot Pupa Shell as Fish Feed Supplement: Antioxidant Activity and Hematological Profile of Sangkuriang Catfish (2024). 31,56 million IDR. (Leader)</i></li> <li>2. <i>Protein defatted maggot as a basic ingredient of animal feed: Antioxidant enzyme activity assay, blood profile and digestive system histology of mice (2024). 108,07 million IDR. (Leader)</i></li> <li>3. <i>Effectiveness Test Of Kelulut Bee Honey (Trigona Itama) And Olive Oil (Olea Europaea) Preparations On Wound Healing Of Mice (Mus Musculus). (2024). 12 million IDR. (Member)</i></li> <li>4. <i>Exploration Of Secondary Metabolites Of Merkung Fruit (Macaranga Gigantea (Rchb.F &amp; Zoll) Mull.Arg) That Have Potential As A Source Of Natural Medicinal Materials. (2023). 15 million IDR. (Member)</i></li> <li>5. <i>Briefing On Chromosome And Karyotype Analysis Techniques In Plants. (2023). 9,25 million IDR. (Member)</i></li> <li>6. <i>An Alternative Oil Source To Fish Oil From Maggot Oil Grown On Fructose-Supplemented Palm Oil Waste Media. (2023). 124,04 million IDR. (Member)</i></li> <li>7. <i>Anti-Angiogenic Nanoparticle Of Barito Tabat Leaves (Ficus deltoidea Jack) On Chorio Alantois Membranes Of Chicken Embryos Induced By Basic Fibroblast Growth Factor (BFGF). (2023). 182,01 million IDR. (Leader)</i></li> <li>8. <i>Potential Test Of Tanikkara (Dillenia excelsa (Jack) Martelli Ex Gilg) Leaf Extract As Antibacterial And Natural Antioxidant. (2022). 18 million IDR. (Member)</i></li> </ol>		



	<p>9. <i>Pilot Project Of Maggot Cultivation In PT Berkah Salama Jaya, Cattle Fattening Centre, Loa Janan, Kutai Kartanegara. (2022). 941,27 million IDR</i></p> <p>The history can be viewed at the following:</p> <p>Scopus ID: 57204438570  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6043148">https://sinta.kemdiktisaintek.go.id/authors/profile/6043148</a></p>
Industry collaborations over the last 5 years	<i>Pilot Project of Maggot Farming at PT. Berkah Salama Jaya, Cattle Fattening Center, Loa Janan, Kutai Kartanegara, East Kalimantan</i>
Patents and proprietary rights	<ol style="list-style-type: none"> <li>1. <i>Basic Biochemistry Book 2</i> 2025</li> <li>2. <i>Basic Biomedical Book</i> 2025</li> <li>3. <i>Basic Biology</i> 2024</li> <li>4. <i>HKI Poster Process for the Preparation of Nano Chitosan from Chitosan Shells of Black Army Fly Larvae (Hermetia Illucens L.) Using the Ionic Gelation Method</i> 2024</li> <li>5. <i>HKI Poster Process for making chitosan from the shell of the black midge fly (Hermetia Illucens)</i> 2024</li> <li>6. <i>Kohe Fermentation Video Work</i> 2024</li> <li>7. <i>Book Work: The Role of Molecular Genetics in Biodiversity Conservation Perspective</i> 2022</li> <li>8. <i>Video Recording Work: Tutorial on Handling Animal Test Mice</i> 2022</li> <li>9. <i>Video work on the steps of using the haematology analyser H-7021</i> 2022</li> <li>10. <i>Maggot Cultivation Video Works</i> 2022</li> <li>11. <i>Video Recording Work: Tutorial on Handling Animal Test Mice</i> 2021</li> </ol>



Important publications over the last 5 years	<ol style="list-style-type: none"> <li>1. Kusuma, R., Wulandari, T. M., Lariman, Samsurianto, Nugroho, R. A., Manurung, H., Ariyani, R., &amp; Rudianto. (2025). Evaluating constraints and prospects of black soldier fly frass for sustainable <i>Coelogyne pandurata</i> acclimatization. <i>Asian Journal of Agriculture</i>, 9(1), 316 – 325. <a href="https://doi.org/10.13057/asianjaqric/g090133">10.13057/asianjaqric/g090133</a></li> <li>2. Nugroho, R. , Ariyani, R. , Hardi, E. , Manurung, H. , Rudianto, R. and Jati, W. (2024). Fermented palm kernel waste with different sugars as substrate for black soldier fly larvae. <i>Global Journal of Environmental Science and Management</i>, 10(2), 503-516. doi: <a href="https://doi.org/10.22034/gjesm.2024.02.06">10.22034/gjesm.2024.02.06</a></li> <li>3. Nugroho, R. A., Hindryawati, N., Ariyani, R., Manurung, H., Sari, Y. P., Nurhadi, M., ... Prahastika, W. (2024). In vivo and in vitro assays using biosynthesized silver nanoparticles on <i>Aeromonas hydrophila</i>-infected <i>Clarias gariepinus</i>. <i>Journal of Applied Aquaculture</i>, 36(1), 170–192. <a href="https://doi.org/10.1080/10454438.2022.2130737">https://doi.org/10.1080/10454438.2022.2130737</a></li> <li>4. Manurung, H., Dwi, S., Kusuma, R., Nugroho, R.A., Ariyani, R., Setiawan, A. (2024). Allelopathic effects of lai (<i>Durio kutejensis</i> Hassk. Becc) leaf extract, on germination and early growth of weeds and crops, 63(1), 45 – 58, <a href="https://doi.org/10.26651/allelo.j/2024-63-1-1498">10.26651/allelo.j/2024-63-1-1498</a></li> <li>5. Nugroho, R. A., Ariyani, R., Hardi, E. H., Manurung, H., Rudianto, R., Wirawan, N. A., Syalsabillah, N., &amp; Jati, W. N. (2023). Nutritive value, material reduction, biomass conversion rate, and survival of black soldier fly larvae reared on palm kernel meal supplemented with fish pellets and fructose. <i>International Journal of Tropical Insect Science</i>, 43, 1243-1254. <a href="https://doi.org/10.1007/s42690-023-01032-4">10.1007/s42690-023-01032-4</a></li> <li>6. Ariyani, R., Nugroho, R. A., Manurung, H., Pusparini, N. A. O., Prahastika, W., &amp; Rudianto, R. (2022). Subchronic toxicity of <i>Ficus deltoidea</i> jack. leaves on the histology of ventriculus and intestinum tenue male mice. <i>AIP Conf. Proc.</i> 2668, 020005. <a href="https://doi.org/10.1063/5.0111944">10.1063/5.0111944</a></li> <li>7. Manurung, H., Dwi, S., Kusumawati, E., Ariyani, R., Nugroho, R.A., Kusuma, R., Rahmawati, Z., Sari., R.D. (2022) Phytochemical, GC-MS analysis and antioxidant activities of leaf methanolic extract of Lai (<i>Durio kutejensis</i>), the endemic plant of Kalimantan, Indonesia, 23(11), 5566-5573, <a href="https://doi.org/10.13057/biodiv/d231104">https://doi.org/10.13057/biodiv/d231104</a></li> <li>8. Sardj, N. I., Ariyani, R., Nugroho, R. A., Sari, Y. P., Manurung, H., &amp; Rudianto, R. (2022). Effects of ant-nest plant (<i>Myrmecodia pendens</i>) bulb extract on histology of intestinal, liver and proximate fillet of Sangkuriang catfish (<i>Clarias gariepinus</i> Var). <i>AIP Conf. Proc.</i> 2668, 020002. <a href="https://doi.org/10.1063/5.0111711">10.1063/5.0111711</a></li> <li>9. Nurfakhira, L., Nugroho, R. A., Ariyani, R., Sari, Y. P., Manurung, H., &amp; Rudianto, R. (2022). Growth and digestive enzyme activity of <i>Clarias gariepinus</i> fed <i>Myrmecodia pendens</i> merr. &amp; perry bulb extract. <i>AIP Conf. Proc.</i> 2668, 020001. <a href="https://doi.org/10.1063/5.0111704">10.1063/5.0111704</a></li> <li>10. Nugroho, R. A., Ariyani, R., Manurung, H., Anindita, D. F., Nidayati, F. S. N., Prahastika, W., &amp; Rudianto, R. Effects of the Ethanol Extracts of <i>Ficus deltoidea</i> leaves on the Reproductive Parameters in Male Mice. <i>Macedonian Journal of Medical Sciences</i>, 10(A), 146-152. <a href="https://doi.org/10.3889/oamjms.2022.8068">10.3889/oamjms.2022.8068</a></li> </ol>
Activities in specialist bodies over the last 5 years	Association of Indonesian Biology Educators and Researchers      Member      Present



## Staff Handbook



Name	<i>Dr. Nova Hariani, S.Si., M.Si.</i>		
Post	<i>Associate Professor (Entomology)</i> <i>Head of the Department of Biology, FMIPA Mulawarman University.</i>		
Academic career	<i>Doctorate (Biology)</i>	<i>ITB University</i>	<i>2014</i>
	<i>Master's (Biology)</i>	<i>ITB University</i>	<i>2002</i>
	<i>Undergraduate degree (Biology)</i>	<i>Andalas University</i>	<i>1998</i>
Employment	<i>Lecturer</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li><i>1. Exploration of Alpha Amylase Enzyme Producing Microbes in Maggot and Kasgot BSF from a Variety of Market Organic Waste with a Metagenomic Approach (2025). 139,66 million IDR. (Member)</i></li> <li><i>2. Potency Testing and Identification of Indigenous Bacillus spp. Against Aedes aegypti Larvae in Samarinda City (2024). 12 million IDR. (Leader)</i></li> <li><i>3. Briefing on Chromosome and Karyotype Analysis Techniques in Plants (2023). 9,25 million IDR. (Member)</i></li> <li><i>4. Identification and Characterization of Bacillus spp. as A Biolarvicidal Agent for Aedes aegypti using A Molecular Method Approach (2023). 15 million IDR. (Member)</i></li> <li><i>5. Analysis of Soil Bacterial Community Structure Profile and Screening Potential of Indigenous Bacillus thuringiensis as A Bioinsecticide Candidate for Aedes aegypti Mosquito. 17 million IDR. (Member)</i></li> <li><i>6. Environmental Epidemiology of Hookworm Infection and Strongyloidiasis in Indonesia. 135 million IDR. (Member)</i></li> </ol> <p><i>The history can be viewed at the following:</i></p> <p><i>Scopus ID: 55323113400</i>  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/5974366">https://sinta.kemdiktisaintek.go.id/authors/profile/5974366</a></p>		
Industry collaborations over the last 5 years	-		



Patents and proprietary rights	1. <i>Potential Test and Identification of Indigenous Bacillus spp. Against Aedes aegypti in Samarinda.</i>	2025
	2. <i>Love Your Gut Microbiome: Simple Recipes to Keep Good Gut Bacteria in Balance.</i>	2024
	3. <i>Knowledge and Understanding of Insects: Small World Wonders in Ecosystems.</i>	2024
	4. <i>Food Source Plants for Kelulut (Heterotrigona itama Cockerell) in Belimau, Lempake Village, North Samarinda, East Kalimantan.</i>	2024
	5. <i>Assessment Report on Potential Pollution from Garbage, Waste, and Toilets in Lake Jempang, West Kutai Regency.</i>	2024
	6. <i>Report on how to make liquid organic fertilizer for the weeds of Benanga Reservoir in Belimau, Lempake Village, Samarinda, East Kalimantan.</i>	2024
	7. <i>Report on The Preparation of Pellets Combining Maggot (Hermetia illucens L.) Flour and Tofu Dregs as an Alternative Feed for The Growth of Sangkuriang Catfish (Clarias gariepinus Buchell, 1822).</i>	2024
	8. <i>Report on the Assessment of Potential Pollution from Sprinklers, Sewage, and Toilets in Lake Semayang, Kutai Kartanegara Regency.</i>	2024
	9. <i>Quality Test Report on the viscosity of Kelulut Honey (Heterotrigona Itama Cockerell) in Belimau, Lempake Village, Samarinda, East Kalimantan.</i>	2024
	10. <i>Report on Selection of Media for Attracting Wild BSF to Lay Eggs for Natural Seedlings.</i>	2024



<p>Important publications over the last 5 years</p>	<ol style="list-style-type: none"> <li>1. Hariani, N., Budiman, Patang, F., &amp; Yuliatin, E. (2025). Bioprospecting of <i>Bacillus</i> Species from East Kalimantan, Indonesia for Developing Sustainable Mosquito larvicides. <i>Biodiversity</i>, 26(3), 1360-1366. <a href="https://doi.org/10.13057/biodiv/d260336">https://doi.org/10.13057/biodiv/d260336</a></li> <li>2. Yuliatin, E., Hariani, N., Dharma, B., Patang, F., &amp; Budiman, B. (2025). Comparison of Rhizobacterial Communities Between Secondary Forest and Palm Oil Plantations in East Kalimantan, Indonesia. <i>Biodiversity</i>, 26(1), 490-499. <a href="https://doi.org/10.13057/biodiv/d260148">https://doi.org/10.13057/biodiv/d260148</a></li> <li>3. Jusmaldi, Satri, &amp; Hariani, N. (2025). Truss Morphometric and Meristic Analysis of Nile tilapia (<i>Oreochromis niloticus</i>) Strains from Cultivation Ponds in Samarinda City, Indonesia. <i>AACL Bioflux</i>, 18(3), 1301-1312.</li> <li>4. Dini, P. V., Hariani, N., Yusmalinar, S., Jane, E., &amp; Ahmad, I. (2023). Decrease in The Resistance Level of <i>Blattella germanica</i> (Linnaeus) (Blattodea: Ectobiidae) to Insecticides after being Reared Without Selection Pressure for Ten Years. <i>Journal of Indonesian entomology</i>, 20(1), 40-48. <a href="https://doi.org/10.5994/jei.20.1.40">https://doi.org/10.5994/jei.20.1.40</a></li> <li>5. Yuliatin, E., Rosadi, I., Hariani, N., Oktavianingsih, L., Fadhillah, L., &amp; Arinda, I. (2023). The Ecological Significance of Plant Growth Promoting Rhizobacteria in Tropical Soil Kalimantan: A Narrative Review. <i>Journal of Tropical Life Science</i>, 13(2), 407-420. <a href="https://doi.org/10.11594/jtls.13.02.20">https://doi.org/10.11594/jtls.13.02.20</a></li> <li>6. Aprilasari, F., Hariani, N., &amp; Trimurti, S. (2022). Preliminary study of forensic investigation: Insect Arrival Pattern on Wistar Rat (<i>Rattus norvegicus</i>) Carrion in Samarinda, East Kalimantan. <i>AIP Conference Proceedings</i>, 2668(1). <a href="https://doi.org/10.1063/5.0114146">https://doi.org/10.1063/5.0114146</a></li> <li>7. Rosadi, I., Indrady, F. T., Karina, K., &amp; Hariani, N. (2022). Evaluation Effects of Ascorbic Acid Leads to Activate and Induce Osteogenic Protein Marker Expression: In Silico and In-Vitro Study. <i>Biomedical Research and Therapy</i>, 9(1), 4832-4841. <a href="https://doi.org/10.15419/bmrat.v9i1.720">https://doi.org/10.15419/bmrat.v9i1.720</a></li> <li>8. Buchori, D., Rizali, A., Priawandiputra, W., Raffiudin, R., Sartiami, D., Pujiastuti, Y., Jauharlina, J. A., Pradana, M. G., Meilin, A., Leatemia, J. A., Sudiarta, I. P., Rustam, R., Novri, N., Lestari, P., Syahputra, E., Hasriyanti, H., Watung, J. F., Amin Daud, I. D., Hariani, N., &amp; Jihadi, A. (2022). Beekeeping and Managed Bee Diversity in Indonesia: Perspective and Preference of Beekeepers. <i>Diversity</i>, 14(1), 1-14. <a href="https://doi.org/10.3390/d14010052">https://doi.org/10.3390/d14010052</a></li> <li>9. Aliyya, A., Zulfitri, A., Zakiah, U., Prianto, A. H., Kartika, T., Hariani, N., Zulfiana, D., &amp; Guswenrivo, I. (2021). Insecticidal activity of entomopathogenic fungi and neem-based biopesticide (<i>Azadirachta indica</i>) on <i>Spodoptera litura</i>. <i>E3S Web of Conferences</i>, 306, 1-6. <a href="https://doi.org/10.1051/e3sconf/202130601055">https://doi.org/10.1051/e3sconf/202130601055</a></li> </ol>												
<p>Activities in specialist bodies over the last 5 years</p>	<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Indonesian Biology Consortium</td> <td style="width: 20%;">Member</td> <td style="width: 20%;">Present</td> </tr> <tr> <td>Samarinda Branch of The Indonesian Society of Entomology</td> <td>Chairman</td> <td>Present</td> </tr> <tr> <td>Entomology Society of Indonesia (PEI)</td> <td>Member</td> <td>Present</td> </tr> <tr> <td>Indonesian Biology Association (PBI)</td> <td>Member</td> <td>Present</td> </tr> </table>	Indonesian Biology Consortium	Member	Present	Samarinda Branch of The Indonesian Society of Entomology	Chairman	Present	Entomology Society of Indonesia (PEI)	Member	Present	Indonesian Biology Association (PBI)	Member	Present
Indonesian Biology Consortium	Member	Present											
Samarinda Branch of The Indonesian Society of Entomology	Chairman	Present											
Entomology Society of Indonesia (PEI)	Member	Present											
Indonesian Biology Association (PBI)	Member	Present											



## Staff Handbook



Name	<i>Dr. Fatmawati Patang, S.Si., M.Si.</i>		
Post	<i>Associate Professor (Entomology)</i> <i>Secretary of the Biology Department</i>		
Academic career	<i>Doctorate (S3-MIPA)</i>	<i>Airlangga University</i>	<i>2019</i>
	<i>Master's (SITH-Biology)</i>	<i>ITB University</i>	<i>2001</i>
	<i>Undergraduate degree (Biology)</i>	<i>Hasanuddin University</i>	<i>1998</i>
Employment	<i>Lecturer</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li><i>Potency Testing And Identification Of Indigenous Bacillus Spp. Against Aedes Aegypti Larvae In The City Of Samarinda (2024). 12 million IDR. (Member)</i></li> <li><i>Identification And Characterisation Of Bacillus Spp. As A Biolarvicidal Agent For Aedes Aegypti Using A Molecular Method Approach. (2023). 15 million IDR. (Leader)</i></li> <li><i>Analysis of Soil Bacterial Community Structure Profile and Screening Potential of Indigenous Bacillus Thuringiensis as Bioinsecticide Candidate for Aedes Aegypti Mosquitoes. (2022). 17 million IDR. (Member)</i></li> <li><i>Environmental Epidemiology Of Hookworm Infection And Strongyloidiasis In Indonesia. (2020). 135 million IDR. (Member)</i></li> </ol> <p><i>The history can be viewed at the following:</i></p> <p><i>Scopus ID: <a href="https://scopus.com/authorities/6738729">57202791282</a></i></p> <p><i><a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6738729">https://sinta.kemdiktisaintek.go.id/authors/profile/6738729</a></i></p>		
Industry collaborations over the last 5 years	-		



<p>Patents and proprietary rights</p>	<ol style="list-style-type: none"> <li>1. <i>Potency Test and Identification of Indigenous Bacillus spp. Against Aedes Aegypti In Samarinda</i> 2025</li> <li>2. <i>Report on the Assessment of the Potential Pollution of Garbage, Waste, and MCK in Lake Melintang, Kutai Kartanegara Regency.</i> 2024</li> <li>3. <i>Food Source Plants of Kelulut (Heterotrigona Itama Cockerell) in Belimau, Lempake Village, North Samarinda, East Kalimantan</i> 2024</li> <li>4. <i>Report on how to make liquid organic fertiliser in Muara Siran Village, Muara Kaman Sub-district, Kutai Kartanegara, East Kalimantan</i> 2024</li> <li>5. <i>Quality Test Report on the viscosity of Kelulut Honey (Heterotrigona Itama Cockerell) in Belimau, Lempake Village, Samarinda, East Kalimantan.</i> 2024</li> <li>6. <i>Test Report on the Manufacture of Citrus Aroma Eco-Enzymes at Unmul Gunung Kelua Campus, Samarinda, East Kalimantan</i> 2024</li> <li>7. <i>Report on the Preparation of Pellets Combining Maggot (Hermetia Illucens L.) Flour and Coconut Dregs as an Alternative Feed for the Growth of Sangkuriang Catfish (Clarias Gariepinus Buchell, 1822)</i> 2024</li> <li>8. <i>Report on the Assessment of Potential Pollution from Sewage, Waste, and Toilets in Semayang Lake, Kutai Kartanegara Regency</i> 2024</li> <li>9. <i>Spider Webs as Natural Reducers of Microplastic Pollutants in the Air</i> 2024</li> <li>10. <i>Report on how to make liquid organic fertiliser in junior high school, senior high school and vocational high school Muara Bengkal, East Kutai, East Kalimantan</i> 2024</li> </ol>									
<p>Important publications over the last 5 years</p>	<ol style="list-style-type: none"> <li>1. <i>Hariani, N., Budiman, Patang, F., &amp; Yuliatin, E. (2025). Bioprospecting of Bacillus species from East Kalimantan, Indonesia for developing sustainable mosquito larvicides. Biodiversitas, 26(3), 1360 – 1366. <a href="https://doi.org/10.13057/biodiv/d260336">10.13057/biodiv/d260336</a></i></li> <li>2. <i>Yuliatin, E., Hariani, N., Dharma, B., Patang, F., &amp; Budiman. (2025). Comparison of rhizobacterial communities between secondary forest and palm oil plantations in East Kalimantan, Indonesia. Biodiversitas, 26(1), 490–499. <a href="https://doi.org/10.13057/biodiv/d260148">10.13057/biodiv/d260148</a></i></li> <li>3. <i>Patang, F., &amp; Soegianto, A. (2020). Oxidative responses of macro-invertebrates in relation to environmental variables in rivers of East Kalimantan, Indonesia. Chemistry and Ecology, 36(9), 855-867. <a href="https://doi.org/10.1080/02757540.2020.1791101">10.1080/02757540.2020.1791101</a></i></li> </ol>									
<p>Activities in specialist bodies over the last 5 years</p>	<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;"><i>Indonesian Entomological Society</i></td> <td style="width: 20%;"><i>Member</i></td> <td style="width: 20%;"><i>Present</i></td> </tr> <tr> <td><i>Indonesian Limnological Society</i></td> <td><i>Member</i></td> <td><i>Present</i></td> </tr> <tr> <td><i>Indonesian Association of Essential Researchers</i></td> <td><i>Member</i></td> <td><i>Present</i></td> </tr> </table>	<i>Indonesian Entomological Society</i>	<i>Member</i>	<i>Present</i>	<i>Indonesian Limnological Society</i>	<i>Member</i>	<i>Present</i>	<i>Indonesian Association of Essential Researchers</i>	<i>Member</i>	<i>Present</i>
<i>Indonesian Entomological Society</i>	<i>Member</i>	<i>Present</i>								
<i>Indonesian Limnological Society</i>	<i>Member</i>	<i>Present</i>								
<i>Indonesian Association of Essential Researchers</i>	<i>Member</i>	<i>Present</i>								



## Staff Handbook



Name	<i>Dr. Jusmaldi, S.Si., M.Si.</i>		
Post	<i>Associate Professor (Vertebrate Taxonomy)</i> <i>Biology study programme coordinator</i>		
Academic career	<i>Doctorate (Animal Bioscience)</i>	<i>IPB University</i>	<i>2018</i>
	<i>Master's (Zoology)</i>	<i>IPB University</i>	<i>2002</i>
	<i>Undergraduate degree (Biology)</i>	<i>Andalas University</i>	<i>1996</i>
Employment	<i>Lecturer</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li>1. <i>Pemantauan keanekaragaman hayati di plant site PT Badak NGL Bontang (2025).</i></li> <li>2. <i>Fish Biodiversity of the Siluridae Family in the Central Mahakam Area, East Kalimantan (2024).</i></li> <li>3. <i>Study Of Composition, Structure And Architectural Models Of Trees In Karang Mumus River Rehabilitation Area Samarinda. (2024). 12 million IDR. (Member)</i></li> <li>4. <i>Biological Aspects Of Habitat Preference Of Lurai Fish (Corica Soborna Hamilton, 1822) A New Record From The Lower Mahakam River East Kalimantan. 15 million IDR. (Leader)</i></li> <li>5. <i>Growth Pattern and Reproductive Aspects of Sepat Rawa Fish (Trichopodus trichopterus Pallas, 1770) in Lempake Dam, East Kalimantan (2021).</i></li> <li>6. <i>Biodiversity Profile of Kutai Kartanegara Regency Environmental Agency (DLH) of Kutai Kartanegara</i></li> </ol> <p><i>The history can be viewed at the following:</i></p> <p><i>Scopus ID: 59507152600</i>  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6826256">https://sinta.kemdiktisaintek.go.id/authors/profile/6826256</a></p>		
Industry collaborations over the last 5 years	-		



Patents and proprietary rights	-
Important publications over the last 5 years	<ol style="list-style-type: none"> <li>1. Keanekaragaman dan Status Konservasi Iktiofauna Di Sungai Mahakam, Kecamatan Long Iram, Kalimantan Timur. <i>Berita Biologi</i> 24 (1), 133-148</li> <li>2. M Hendra, J Jusmaldi, DS Rukmi, K Subagiada. (2025). Struktur, Komposisi, dan Model Arsitektur Pohon Di Kawasan Rehabilitasi Sungai Karang Mumus Lempake, Samarinda. <i>Berita Biologi</i> 24 (1), 73–84-73–84.</li> <li>3. Mnur Annisa, Ka Widayati, J Jusmaldi, A Farajallah. (2025). Diversity of freshwater shrimp species of the genus <i>Macrobrachium</i> (Decapoda: Caridea) in the big river of East Kalimantan, Indonesia. <i>Biodiversitas Journal of Biological Diversity</i> 26 (3).</li> <li>4. J Jusmaldi, Satri, N Hariani (2025). Truss morphometric and meristic analysis of Nile tilapia (<i>Oreochromis niloticus</i>) strains from cultivation ponds in Samarinda City, Indonesia. <i>AAFL Bioflux</i> 18 (3).</li> <li>5. Ulandari, R., Jusmaldi, J., &amp; Rukmi, D. S. (2024). Diversity And Abundance Of Non-Volant Small Mammals In Oil Palm Plantations Of Setabu Village, Sebatik Island, North Kalimantan. <i>Bioprospek</i>, 16(1), 37-44. <a href="https://doi.org/10.30872/bp.v16i1.1292">10.30872/bp.v16i1.1292</a></li> <li>6. Jusmaldi, J., Dewi, K., &amp; Hariani, N. (2023). Biometrics and Gonad Maturity of Yellow Mackerel (<i>Selaroides leptolepis</i> Cuvier, 1833) in Muara Badak Waters, East Kalimantan. <i>Al Kauniah</i>, 17(1), 57-69. <a href="https://doi.org/10.15408/kauniah.v16i2.1.27010">10.15408/kauniah.v16i2.1.27010</a></li> <li>7. Jusmaldi, J., Wahidah, N., &amp; Hariani, N. (2023). Growth patterns, condition factors, and gonad maturity of the white-spotted spinefoot (<i>Siganus canaliculatus</i>, Park 1797) in the coastal area of Bontang City, East Kalimantan. <i>Acta Aquatica Aquatic Sciences Journal</i>, 10(1), 24-30. <a href="https://doi.org/10.29103/aa.v1i2.10824">10.29103/aa.v1i2.10824</a></li> <li>8. Khoirul, A., Yuliaty, Y., Sari, Y. P., Kurniati, R., Manurung, H., Jusmaldi, J., Kusuma, R., &amp; Amiruddin, M. F. (2023). Antibacterial Activity Test Of Propoly Extract Of Family Madu Bees (<i>Trigona melina</i>) From Mulawarman University Samarinda's Library Field (Krus) On The Growth Of The Bacteria <i>Salmonella typhi</i> and <i>Klebsiella pneumoniae</i>. <i>Jurnal Keperawatan</i>, 4(1), 55-62. <a href="https://doi.org/10.35728/jkw.v4i1.1531">https://doi.org/10.35728/jkw.v4i1.1531</a></li> <li>9. Jusmaldi, J., Gurning, F. N. L., &amp; Hariani, N. (2022). Fecundity and Spawning Patterns of Swamp Crayfish <i>Trichopodus trichopterus</i> (Pallas, 1770) from Samarinda Lempake Dam, East Kalimantan. <i>EduBiologia: Biological Science and Education Journal</i>, 2(2), 94-100. <a href="https://doi.org/10.30998/edubiologia.v2i2.12505">10.30998/edubiologia.v2i2.12505</a></li> <li>10. Jusmaldi, J., Dianingrum, A. R., &amp; Hariani, N. (2021). The growth pattern and condition factors of three spot gourami <i>Trichopodus trichopterus</i> (Pallas, 1770) from the Lempake Dam, East Kalimantan. <i>Indonesian Journal of Ichthyology</i>, 21(3), 215-23. <a href="https://doi.org/10.32491/jii.v21i3.588">10.32491/jii.v21i3.588</a></li> <li>11. Jusmaldi, J., Hariani, N., Wulandari, N. A. (2020). Length-Weight Relationships And Condition Factors Of Nilem Fish (<i>Osteochilus vittatus</i> Valenciennes, 1842) In The Benanga Waduk, East Kalimantan. <i>Berita Biologi</i> 19(2), 127-140. <a href="https://doi.org/10.14203/beritabiologi.v19i2.3806">10.14203/beritabiologi.v19i2.3806</a></li> <li>12. Jusmaldi, J., Hendra, M., Wulandari, N. A., Sarah, A. (2020). Some reproductive biology aspects of bonylip barb (<i>Osteochilus vittatus</i> Valenciennes, 1842) in the waters of Benanga Reservoir, East Kalimantan. <i>Indonesian Journal of Ichthyology</i>, 20(3), 217-233. <a href="https://doi.org/10.32491/jii.v20i3.529">10.32491/jii.v20i3.529</a></li> </ol>



Activities in specialist bodies over the last 5 years	<i>Indonesian Ichthyological Society</i>	<i>Koordinator Wilayah</i>	<i>Present</i>
	<i>Indonesian Biodiversity Society</i>	<i>Member</i>	<i>Present</i>



# Staff Handbook



Name	<i>Dr. Linda Oktavianingsih, S.Si., M.Si.</i>		
Post	<i>Associate Professor (Head of Animal Anatomy and Microtechniques Laboratory)</i>		
Academic career	<i>Doctorate (Biology)</i>	<i>Gadjah Mada University</i>	<i>2019</i>
	<i>Master’s (Biology)</i>	<i>IPB University</i>	<i>2002</i>
	<i>Undergraduate degree (Biology)</i>	<i>Andalas University</i>	<i>1997</i>
Employment	<i>Lecturer</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li><i>1. Genetic Diversity And Relatedness Of Chilli (Capsicum Spp.) In Penajam Paser Utara (Ikn) District Based On Morphological And Molecular Characters (Chloroplast Gene And Its Region). (2024). 12 million IDR. (Leader)</i></li> <li><i>2. Silver Nanoparticles Of Anthill (Myrmecodia Tuberosa) Callus Extract (Biosynthesis And Antioxidant Activity Assay). (2023). 15 million IDR. (Member)</i></li> <li><i>3. Briefing On Chromosome And Karyotype Analysis Techniques In Plants. (2023). 9,25 million IDR. (Leader)</i></li> </ol> <p><i>The history can be viewed at the following:</i></p> <p><i>Scopus ID: <a href="https://scopus.com/authorities/6730226">57209400466</a></i></p> <p><i><a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6730226">https://sinta.kemdiktisaintek.go.id/authors/profile/6730226</a></i></p>		
Industry collaborations over the last 5 years	<i>Pilot Project of Maggot Farming at PT. Berkah Salama Jaya, Cattle Fattening Center, Loa Janan, Kutai Kartanegara, East Kalimantan</i>		
Patents and proprietary rights	<ol style="list-style-type: none"> <li><i>1. Booklet Ethnobiology of Spice Plants</i> <span style="float:right"><i>2025</i></span></li> <li><i>2. Booklet Ethnobiology of Medicinal and Food Plants</i> <span style="float:right"><i>2025</i></span></li> <li><i>3. Introduction of Cloud-based Biotechnology Platform ‘Benchling’ for Introductory Biotechnology Lectures</i> <span style="float:right"><i>2022</i></span></li> <li><i>4. Simple Technique for Making VCO (Virgin Coconut Oil)</i> <span style="float:right"><i>2022</i></span></li> <li><i>5. The Role of Molecular Genetics in Biodiversity Conservation Perspective</i> <span style="float:right"><i>2022</i></span></li> <li><i>6. Biotechnology and its Application in Science Research and Learning</i> <span style="float:right"><i>2022</i></span></li> </ol>		





## Staff Handbook



Name	<i>Dr. Drs. Dwi Susanto, M.Si.</i>		
Post	<i>Associate Professor (Plant Physiology)</i>		
Academic career	<i>Doctorate (Forestry)</i>	<i>Mulawarman University</i>	<i>2014</i>
	<i>Master's (Biology)</i>	<i>Gadjah Mada University</i>	<i>2001</i>
	<i>Undergraduate degree (Biology)</i>	<i>Mulawarman University</i>	<i>1992</i>
Employment	<i>Lecturer</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li><i>1. Allelopathic and Phytotoxic Activity Test of Tabat Barito Leaf Extract (Ficus deltoidea Jack) on Germination and Growth of Pletekan Weed (Ruellia tuberosa L.) (2023). 12 million IDR. (Leader)</i></li> <li><i>2. Exploration of the Secondary Metabolites of Macaranga gigantea (RCHB.F &amp; ZOLL) MULL.ARG Fruit with Potential as a Source of Natural Medicinal Compounds (2023). 15 million IDR. (Member)</i></li> <li><i>3. Test of the Potential of Tanikkara Leaf Extract (Dillenia excelsa (Jack) Martelli Ex Gilg) as a Natural Antibacterial and Antioxidant Agent (2022). 18 million IDR. (Member)</i></li> <li><i>4. Vertical Farming Development as an Empowerment Effort for Housewives in Gn. Kelua Village, Samarinda (A Solution for Vertical Farming in Limited Land) (2022). 15 million IDR. (Member)</i></li> </ol> <p><i>The history can be viewed at the following:</i>  <i>Scopus ID: 58823493300</i>  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6008821">https://sinta.kemdiktisaintek.go.id/authors/profile/6008821</a></p>		
Industry collaborations over the last 5 years	<i>Vegetation Cover Map of Conservation Forest Area 9 for Biodiversity Monitoring at PT Badak LNG Plant Site, Bontang, East Kalimantan</i>		



<p>Patents and proprietary rights</p>	<p>1. <i>Vegetation Cover Map of Conservation Forest Area 9 for Biodiversity Monitoring at PT Badak LNG Plant Site in 2024</i> <span style="float: right;">2024</span></p>						
<p>Important publications over the last 5 years</p>	<ol style="list-style-type: none"> <li>1. Manurung, H., Dwi, S., Kusuma, R., Nugroho, R.A., Aryani, R., Setiawan, A. (2024). Allelopathic effects of lai (<i>Durio kutejensis</i> Hassk. Becc) leaf extract, on germination and early growth of weeds and crops, 63(1), 45 – 58, <a href="https://doi.org/10.26651/allelo.j/2024-63-1-1498">10.26651/allelo.j/2024-63-1-1498</a>.</li> <li>2. Fajarina, W., Medi, H., and Dwi, S. (2020). Estimation of Above Ground Carbon Sequestration in Trembesi (<i>Albizia saman</i>) and Johar (<i>Senna siamea</i>) at PT Multi Harapan Utama, East Kalimantan. <i>Journal of Tropical Biodiversity and Biotechnology</i>. 5(2): 115-123.</li> <li>3. Susanto, D., and Rudianto, A. (2020). The application of NPK fertilizer boosts the nutrient uptake status and biomass production of <i>Vernonia amygdalina</i>. <i>NUSANTARA BIOSCIENCE</i> ISSN: 2087-3948 12(2): 114-119</li> <li>4. Nugroho, R. A., Fatmawati, P., Yanti, P. S., Linda, O., Dwi, S., Samsurianto, Rudianto, Widha, P., Maya, D. N., Nadhifa. A. W., and Nawwar, M. (2021). Online Workshop on Animal Physiology Equipment Supporting Research and Practical Work for Science Teachers. <i>SOLMA Journal</i>, 10(01): 248-255</li> <li>5. Manurung, H., Dwi, S., Kusumawati, E., Aryani, R., Nugroho, R.A., Kusuma, R., Rahmawati, Z., Sari., R.D. (2022) Phytochemical, GC-MS analysis and antioxidant activities of leaf methanolic extract of Lai (<i>Durio kutejensis</i>), the endemic plant of Kalimantan, Indonesia, 23(11), 5566-5573, <a href="https://doi.org/10.13057/biodiv/d231104">https://doi.org/10.13057/biodiv/d231104</a></li> </ol>						
<p>Activities in specialist bodies over the last 5 years</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"><i>Society For Indonesian Biodiversity</i></td> <td style="width: 20%;"><i>Member</i></td> <td style="width: 20%;"><i>Present</i></td> </tr> <tr> <td><i>Society For Indonesian Biological</i></td> <td><i>Member</i></td> <td><i>Present</i></td> </tr> </table>	<i>Society For Indonesian Biodiversity</i>	<i>Member</i>	<i>Present</i>	<i>Society For Indonesian Biological</i>	<i>Member</i>	<i>Present</i>
<i>Society For Indonesian Biodiversity</i>	<i>Member</i>	<i>Present</i>					
<i>Society For Indonesian Biological</i>	<i>Member</i>	<i>Present</i>					



## Staff Handbook



Name	<i>Dr. Lariman, M.Si.</i>		
Post	<i>Associate Professor (Animal Taxonomy)</i>		
Academic career	<i>Doctorate (Forestry)</i>	<i>Mulawarman University</i>	<i>2017</i>
	<i>Master's (Biology)</i>	<i>Gadjah Mada University</i>	<i>2001</i>
	<i>Undergraduate degree (Biology Education)</i>	<i>Mulawarman University</i>	<i>1992</i>
Employment	<i>Lecturer</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li><i>1. Effectiveness Test of Stingless Bee Honey (<i>Trigona itama</i>) and Olive Oil (<i>Olea europaea</i>) Preparation on Wound Healing in Mice (<i>Mus musculus</i>) (2024). 12 million IDR. (Member)</i></li> <li><i>2. Silver Nanoparticles from <i>Myrmecodia tuberosa</i> Callus Extract (Biosynthesis and Antioxidant Activity Testing) (2023). 15 million IDR. (Member)</i></li> <li><i>3. Vertical Farming Development as an Empowerment Effort for Housewives in Gn. Kelua Village, Samarinda (A Solution for Vertical Farming in Limited Land) (2022). 15 million IDR. (Member)</i></li> </ol> <p><i>The history can be viewed at the following:</i>  <i>Scopus ID: 57205496028</i>  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6730376">https://sinta.kemdiktisaintek.go.id/authors/profile/6730376</a></p>		
Industry collaborations over the last 5 years	<i>Community Structure and Distribution of the Ordo Anura in the Unmul Samarinda botanical Gardens (KRUS), Samarinda City, East Kalimantan.</i>		





## Staff Handbook



Name	<i>Dr. Yanti Puspita Sari, S.Si., M.Si</i>		
Post	<i>Associate Professor (Plant Tissue Culture)</i>		
Academic career	<i>Doctorate (Forest Science)</i>	<i>Mulawarman University</i>	<i>2016</i>
	<i>Master's (Biology)</i>	<i>IPB University</i>	<i>2003</i>
	<i>Undergraduate degree (Biology)</i>	<i>Andalas University</i>	<i>1998</i>
Employment	<i>Lecturer</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li><i>Genetic Diversity and Phylogenetic Relationships of Chili (Capsicum spp.) in Penajam Paser Utara Regency (IKN) Based on Morphological and Molecular Characteristics (Chloroplast Gene and ITS). (2024). 12 million IDR. (Member)</i></li> <li><i>Silver Nanoparticles from Myrmecodia tuberosa Callus Extract (Biosynthesis and Antioxidant Activity Testing). (2023). 15 million IDR. (Member)</i></li> </ol> <p><i>The history can be viewed at the following:</i>  <i>Scopus ID: 58769168800</i>  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/5988540">https://sinta.kemdiktisaintek.go.id/authors/profile/5988540</a></p>		
Industry collaborations over the last 5 years	<i>Cattle Breeders in Summersari Village, Loa Kulu, Kutai Kartanegara, East Kalimantan</i>		
Patents and proprietary rights	<ol style="list-style-type: none"> <li><i>Process of Making Dry Ethanol Extract of Myrmecodia pendens Tubers as a Material for Producing Silver Nanoparticles (AgNPs)</i> 2019</li> </ol>		



Important publications over the last 5 years	<ol style="list-style-type: none"> <li>1. Malini, H., Efendi, F., Kadar, K. S., Lenggogeni, D. P., &amp; Sari, Y. P. (2025). Health literacy and associated factors among patients with chronic diseases in Indonesia. <i>Zeitschrift für Gesundheitswissenschaften</i>, 33(3), 591-598. <a href="https://doi.org/10.1007/s10389-023-02035-8">https://doi.org/10.1007/s10389-023-02035-8</a></li> <li>2. Nguyen, T. T. B., Hsu, Y.-Y., &amp; Sari, Y. P. (2024). The effect of pelvic floor muscle training on health-related quality of life in postmenopausal women with genitourinary syndrome: A systematic review and meta-analysis. <i>Journals of Nursing Research</i>, 32(1), e316. <a href="https://doi.org/10.1097/jnr.0000000000000597">https://doi.org/10.1097/jnr.0000000000000597</a></li> <li>3. Nugroho, R. A., Hindryawati, N., Aryani, R., Manurung, H., Sari, Y. P., &amp; Nurhadi, M. (2024). In vivo and in vitro assays using biosynthesized silver nanoparticles on <i>Aeromonas hydrophila</i>-infected <i>Clarias gariepinus</i>. <i>Journal of Applied Aquaculture</i>, 36(1), 170-192. <a href="https://doi.org/10.1080/10454438.2022.2130737">https://doi.org/10.1080/10454438.2022.2130737</a></li> <li>4. Sari, Y. P., Hsu, Y.-Y., &amp; Nguyen, T. T. B. (2023). The effects of a mindfulness-based intervention on mental health outcomes in pregnant women: A systematic review and meta-analysis. <i>Journals of Nursing Research</i>, 31(6), e306. <a href="https://doi.org/10.1097/jnr.0000000000000586">https://doi.org/10.1097/jnr.0000000000000586</a></li> <li>5. Sari, Y. P., Suchi, A. Q., &amp; Nugroho, R. A. (2023). Biosynthesis and characterization of silver nanoparticles using single garlic callus extract (<i>Allium sativum</i> L.). <i>Malaysian Journal of Fisheries and Aquatic Sciences</i>, 19(4). <a href="https://doi.org/10.11113/mjfas.v19n4.2944">https://doi.org/10.11113/mjfas.v19n4.2944</a></li> <li>6. Sari, Y. P., &amp; Anwar, M. S. (2022). Antioxidant activity of single bulb garlic callus (<i>Allium sativum</i> L.) extract with in vitro method. <i>AIP Conference Proceedings</i>, 2668, 020004. <a href="https://doi.org/10.1063/5.0112192">https://doi.org/10.1063/5.0112192</a></li> <li>7. Sardi, N. I., Aryani, R., Nugroho, R. A., Sari, Y. P., Manurung, H., &amp; Rudianto, R. (2022). Effects of ant-nest plant (<i>Myrmecodia pendens</i>) bulb extract on histology of intestinal, liver, and proximate fillet of Sangkuriang catfish (<i>Clarias gariepinus</i> Var). <i>AIP Conference Proceedings</i>, 2668, 020002. <a href="https://doi.org/10.1063/5.0111711">https://doi.org/10.1063/5.0111711</a></li> <li>8. Nurfakhira, L., Nugroho, R. A., Aryani, R., Sari, Y. P., Manurung, H., &amp; Rudianto, R. (2022). Growth and digestive enzyme activity of <i>Clarias gariepinus</i> fed <i>Myrmecodia pendens</i> Merr. &amp; Perry bulb extract. <i>AIP Conference Proceedings</i>, 2668, 020001. <a href="https://doi.org/10.1063/5.0111704">https://doi.org/10.1063/5.0111704</a></li> <li>9. Nugroho, R. A., Hindryawati, N., Aryani, R., Manurung, H., Sari, Y. P., Nurti, D. D., Rudianto, R., Prahastika, W., &amp; Zahida, F. (2021). Biosynthesis of silver nanoparticles from aqueous extract of <i>Myrmecodia pendens</i> bulb. <i>AIP Conference Proceedings</i>, 2331, 050014. <a href="https://doi.org/10.1063/5.0041654">https://doi.org/10.1063/5.0041654</a></li> <li>Nugroho, R. A., Sari, Y. P., &amp; Hardi, E. H. (2020). Inclusion of <i>Myrmecodia pendens</i> bulb extract in the diet stimulates immune response in <i>Clarias gariepinus</i> against <i>Aeromonas hydrophila</i>. <i>Jordan Journal of Biological Sciences</i>, 13(4), 463–468. <a href="https://doi.org/10.47317/jjbs.2020.13.4.1">https://doi.org/10.47317/jjbs.2020.13.4.1</a></li> </ol>
Activities in specialist bodies over the last 5 years	-



## Staff Handbook



Name	<i>Dr. Ir. Samsurianto, M.Si</i>		
Post	<i>Associate Professor (Plant Tissue Culture)</i>		
Academic career	<i>Doctorate (Forestry)</i>	<i>Mulawarman Univeristy</i>	<i>2018</i>
	<i>Master's (Agronomy/Plant Tissue Culture)</i>	<i>Sam Ratulangi University</i>	<i>2001</i>
	<i>Undergraduate degree (Agronomy)</i>	<i>Mulawarman Univeristy</i>	<i>1988</i>
Employment	<i>Lecturer of Biology</i>	<i>Faculty Mathematics and Natural Science (FMIPA) of Mulawarman University</i>	<i>Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li><i>1. Development of Vertical Farming as an Effort to Empower Housewives in the GN. Kelua Samarinda Village (Solution for Vertical Plant Cultivation in Limited Land) (2022). 15 million IDR. (Member)</i></li> <li><i>2. Silver nanoparticles from Myrmecodia tuberosa callus extract (Biosynthesis and Antioxidant Activity Test) (2023). 15 million IDR. (Member)</i></li> <li><i>3. Exploration of Secondary Metabolites from Merabung Fruit as a Potential Source of Natural Medicinal Ingredients (2023). 15 million IDR. (Member)</i></li> <li><i>4. Allelopathic and Phytotoxic Activity Test of Tabat Barito Leaf Extract (Ficus deltoidea Jack) on Germination and Growth of Pletekan Weed (Ruellia tuberosa L.) (2024). 12 million IDR. (Member)</i></li> </ol> <p><i>The history can be viewed at the following:</i>  <i>Scopus ID: 57207204283</i>  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6738980">https://sinta.kemdiktisaintek.go.id/authors/profile/6738980</a></p>		
Industry collaborations over the last 5 years	-		



Patents and proprietary rights	-
Important publications over the last 5 years	<ol style="list-style-type: none"> <li>1. <i>Pengembangan Vertikultur Solusi Budidaya Tanaman Vertikal Di Lahan Sempit (Upaya Pemberdayaan Ibu-Ibu Rumah Tangga Di Kelurahan Gunung Kelua-Samarinda)</i>. (2023). <i>ABDIKU: Jurnal Pengabdian Masyarakat Universitas Mulawarman</i>, 2(1), 27-33. <a href="https://doi.org/10.32522/abdiku.v2i1.535">https://doi.org/10.32522/abdiku.v2i1.535</a></li> <li>2. Kusuma, R., Samsurianto, S., Azizah, W., &amp; Yuliatin, E. (2023). <i>Respon Pertumbuhan Protocorm Like Bodies (PLB) Anggrek Tebu (Grammatophyllum scriptum Blume) terhadap Modifikasi Media Murashige and Skoog (MS) secara In Vitro</i>. <i>Paspalum: Jurnal Ilmiah Pertanian</i>, 11(1), 42-50. <a href="https://doi.org/10.35138/paspalum.v11i1.538">https://doi.org/10.35138/paspalum.v11i1.538</a></li> </ol>
Activities in specialist bodies over the last 5 years	<i>Indonesian Orchid Association of East Kalimantan</i> <i>Member</i> <i>Present</i>



## Staff Handbook



Name	<i>Drs. Sus Trimurti, M.P.</i>		
Post	<i>Associate Professor (Invertebrate Taxonomy)</i>		
Academic career	<i>Master's (Forestry)</i>	<i>Mulawarman University</i>	<i>2001</i>
	<i>Undergraduate degree (Biology)</i>	<i>Gadjah Mada University</i>	<i>1989</i>
Employment	<i>Lecturer</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li><i>Effectiveness Test of Stingless Bee Honey (<i>Trigona itama</i>) and Olive Oil (<i>Olea europaea</i>) Preparation on Wound Healing in Mice (<i>Mus musculus</i>) (2024). 12 million IDR. (Member)</i></li> <li><i>Silver Nanoparticles from <i>Myrmecodia tuberosa</i> Callus Extract (Biosynthesis and Antioxidant Activity Testing) (2023). 15 million IDR. (Member)</i></li> </ol> <p><i>The history can be viewed at the following:</i>  <i>Scopus ID: 57205491710</i>  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6738740">https://sinta.kemdiktisaintek.go.id/authors/profile/6738740</a></p>		
Industry collaborations over the last 5 years	<i>Study of false gharial (<i>Tomistoma schlegelii</i>) habitat characteristics in Mesangat wetlands, East Kutai, East Kalimantan</i>		
Patents and proprietary rights	<ol style="list-style-type: none"> <li><i>Peat and Human Life Preaching Module</i> 2025</li> <li><i>Module on Climate Change Adaptation Strategies in Wetlands of the Central Mahakam Watershed-East Kalimantan Province</i> 2025</li> <li><i>Mahakam Dolphin: Conservation Between Hope and Threat</i> 2025</li> <li><i>Kalang Buffalo: A Cultural Heritage in Melintang Village, Kutai Kartanegara, East Kalimantan</i> 2025</li> </ol>		



<p>Important publications over the last 5 years</p>	<ol style="list-style-type: none"> <li>1. <i>Hariani, N., Syaidah, E. R., and Trimurti, S. (2019). Laboratory Study of Oviposition Preference of Aedes aegypti (Linnaeus, 1762) in Waste Settlement. Journal of Basic Sciences 20 (1), 7-12.</i></li> <li>2. <i>Permatasari, G. A., Hariani, N., and Trimurti, S. (2020). Test of the Mortality of Armyworm (Spodoptera litura F.) Against the Extract of Snake Plant (Sansevieria trifasciata Prain). Bioterdidik Journal 8 (3), 56-67.</i></li> <li>3. <i>Lariman, and Trimurti, S. (2021). Study of false gharial (Tomistoma schlegelii) habitat characteristics in Mesangat wetlands, East Kutai, East Kalimantan. Intl J Sci Res 10 (12), 649-653</i></li> <li>4. <i>Hariani, N., Kusumawati, E., Aryani, R., and Trimurti, S. (2022). Community Empowerment in the Cultivation and Utilization of Black Soldier Fly Maggot. Journal of Community Empowerment 7 (1), 747-753.</i></li> <li>5. <i>Nurlita, K. F., Trimurti, S., and Lariman. (2023). The Effect of Maggot Flour (Hermetia illucens Linnaeus, 1758) Combination in Commercial Feed on the Growth of Patin Fish (Pangasius hypophthalmus Linnaeus, 1758). Bioprospek 15 (1), 40-48.</i></li> <li>6. <i>Sitohang, W., Trimurti, S., Fadhila, F., Patang F., and Hariani, N. (2023). Prevalence and Intensity of Parasitic Worm Eggs in Bali Cattle (Bos javanicus domesticus) Feces in Livestock Farms in Kertabuana Village, Tenggaraong Seberang District, and Muang Village. Bioprospek 15 (1), 29-39.</i></li> <li>7. <i>Trimurti, S., Lariman, Muhtazam, A. T. (2023). Diversity of Brackish Water Fish in Several Rivers in Babulu Laut Village, Sub-district Babulu, District Penajam Paser Utara (PPU), East Kalimantan International Journal of Research and Scientific Innovation (IJRSI) 10 (II), 10</i></li> </ol>			
<p>Activities in specialist bodies over the last 5 years</p>	<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;"><i>Indonesian Entomological Society</i></td> <td style="width: 20%; text-align: center;"><i>Member</i></td> <td style="width: 20%; text-align: center;"><i>Present</i></td> </tr> </table>	<i>Indonesian Entomological Society</i>	<i>Member</i>	<i>Present</i>
<i>Indonesian Entomological Society</i>	<i>Member</i>	<i>Present</i>		



## Staff Handbook



Name	<i>Reni Kurniati, S.Si, M.Si.</i>		
Post	<i>Associate Professor (Cell Biology and Animal Development)</i>		
Academic career	<i>Master's (Biology)</i>	<i>ITB University</i>	<i>2002</i>
	<i>Undergraduate degree (Biology)</i>	<i>Andalas University</i>	<i>1994</i>
Employment	<i>Lecturer</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>Present</i>
Research and development projects over the last 5 years	<p>1. <i>Effectiveness Test of Kelulut Bee Honey (<i>Trigona itama</i>) and Olive Oil (<i>Olea europaea</i>) Preparations on Wound Healing of Mice (<i>Mus musculus</i>) (2024). 12 million IDR. (Leader)</i></p> <p><i>The history can be viewed at the following:</i>  <a href="https://scopus.com/record/display.uri?eid=2-s2.0-57194451272">Scopus ID: 57194451272</a>  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6677007">https://sinta.kemdiktisaintek.go.id/authors/profile/6677007</a></p>		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	<p>1. <i>Plants That Are Readily Available And Effective In Lowering Blood Sugar Levels</i> 2025</p> <p>2. <i>Choose Herbal Medicine Wisely</i> 2024</p> <p>3. <i>Insects In Islamic Perspective: Exploring The Importance Of Insects In Islam</i> 2024</p> <p>4. <i>Love Your Gut Microbiome: Simple Recipes to Keep Good Gut Bacteria in Balance</i> 2024</p> <p>5. <i>Knowledge and understanding of insects: Small World Wonders in Ecosystems</i> 2024</p> <p>6. <i>The Challenge of Slowing Pest Resistance to Insecticides</i> 2023</p>		



Important publications over the last 5 years	<ol style="list-style-type: none"> <li>1. Ilmi, A. N., Hasibuan, F. R., Pujiyanti, A. S., &amp; Kurniati, R. (2025). Immunomodulatory and Antidiabetic Potential of Kratom (<i>Mitragyna speciosa</i>) in Animal Models: Potential and Future Research. <i>Biocaster: Journal of Biological Studies</i>, 5(3), 240-253. <a href="https://doi.org/10.36312/biocaster.v5i3.463">https://doi.org/10.36312/biocaster.v5i3.463</a></li> <li>2. Yuliatin, E., Hariani, N., Patang, F., Budiman, B., Kurniati, R., Hasibuan, F. R., &amp; Ilmi, A. N. (2025). Gut Microbiome Education through Game-Based Learning for MA Sabilarrasyad Samarinda Students. <i>SOLMA Journal</i>, 14(1), 34-41. <a href="https://doi.org/10.22236/solma.v14i1.16861">https://doi.org/10.22236/solma.v14i1.16861</a></li> <li>3. Kurniati, R., Simanungkalit, R. Y., &amp; Aryani, R. (2024). Effect of Ethanol Extract of Takokak Fruit (<i>Solanum torvum</i> S.) on the Number of Ovarian Follicles and Uterus Weight in Female Mice (<i>Mus musculus</i> L.). <i>Biosphere: Journal of Biology and Biology Education</i>, 9(2), 119-125. <a href="https://doi.org/10.23969/biosfer.v9i2.19604">https://doi.org/10.23969/biosfer.v9i2.19604</a></li> <li>4. Kurniati, R., Patang, F., Bulaan, D. R., &amp; Hariani, N. (2024). Test the Potential of Bee Pollen <i>Trigona incisa</i> to Reduce Blood Sugar Levels of glucose-loaded mice (<i>Mus musculus</i>). <i>Biosphere: Journal of Biology and Biology Education</i>, 9(1), 49-53. <a href="https://doi.org/10.23969/biosfer.v9i1.14271">https://doi.org/10.23969/biosfer.v9i1.14271</a></li> <li>5. Lariman, Patang, F., Agustiani, R., &amp; Kurniati, R. (2024). The Effect of A Combination of Tofu Dregs and Maggot Flour (<i>Hermetia illucens</i> L.) as an Alternative Feed on The Growth of Sangkuriang Catfish (<i>Clarias gariepinus</i> var). <i>International Journal of Research and Scientific Innovation (IJRSI)</i>, 11(9), 1283-1289. <a href="https://doi.org/10.47772/IJRISS.2024.8100161">10.47772/IJRISS.2024.8100161</a></li> <li>6. Anam, K., Yuliaty, Y., Sari, Y. P., Kurniati, R., Manurung, H., Jusmaldi, J., ... &amp; Aminuddin, M. F. (2023). Antibacterial Activity Test Of Propoly Extracts Of Madu Family Bees (<i>Trigona Melina</i>) From The Mulawarman University Samarinda Farm (Krus) Against The Growth Of The Bacteria <i>Salmonella Typhi</i> And <i>Klebsiella Pneumoniae</i>. <i>Journal Of Wiyata Nursing</i>, 4(1), 54-62. <a href="https://doi.org/10.35728/jkw.v4i1.1531">https://doi.org/10.35728/jkw.v4i1.1531</a></li> <li>7. Patang, N. A., Hendra, M., Kurniati, R., Fudiantoro, A., &amp; Hariani, N. (2023). Structure And Community Study Of Plankton In Jembayan River, Loa Kulu Sub-District, Kutai Kartanegara. <i>Bioprospect: Scientific Journal Of Biology</i>, 15(2), 1-12. <a href="https://fmipa.unmul.ac.id/jurnal/index/Bioprospek">https://fmipa.unmul.ac.id/jurnal/index/Bioprospek</a></li> </ol>
Activities in specialist bodies over the last 5 years	-



## Staff Handbook



Name	<i>Dr. Medi Hendra, S.Si., M.Si.</i>		
Post	<i>Assistant Professor of Biology (Head of Anatomy and Plant Systematics Laboratory)</i>		
Academic career	<i>Doctorate (Biological Sciences)</i>	<i>IPB University</i>	<i>2009</i>
	<i>Master's (Biology / Plant Taxonomy)</i>	<i>IPB University</i>	<i>2000</i>
	<i>Undergraduate degree (Biology)</i>	<i>Andalas University</i>	<i>1996</i>
Employment	<i>Lecturer</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li><i>1. Genetic Diversity and Kinship Relationship of Chili Peppers (<i>Capsicum spp.</i>) in Penajam Paser Utara (IKN) District Based on Morphological and Molecular Characters (Chloroplast and ITS Genes) (2024). 12 million IDR. (Member)</i></li> <li><i>2. Study Of The Composition, Structure, And Architectural Model Of Trees In The Karang Mumus River Rehabilitation Area, Samarinda (2024). 12 million IDR. (Leader)</i></li> <li><i>3. Biological Aspects of Habitat Preference of Lurai Fish (<i>Corica soborna</i> Hamilton, 1822) A New Record from The Lower Mahakam River, East Kalimantan (2023). 15 million IDR. (Member)</i></li> <li><i>4. Antioxidant and Antidiabetic Potential of Extracts and Compounds of Selected Invasive Plant Isolates (2022). 200 million IDR. (Member)</i></li> </ol> <p><i>The history can be viewed at the following:</i></p> <p><i>Scopus ID: 56500625400</i>  <a href="https://sinta.kemdikisaintek.go.id/authors/profile/6665318">https://sinta.kemdikisaintek.go.id/authors/profile/6665318</a></p>		



Industry collaborations over the last 5 years	<ol style="list-style-type: none"> <li>1. <i>Vegetation Composition and Structure in PT Badak LNG Nature Park, Bontang, East Kalimantan.</i></li> <li>2. <i>Estimation of above Ground Carbon Sequestration in Trembesi (Albizia saman) and Johar (Senna siamea) at PT Multi Harapan Utama, East Kalimantan.</i></li> </ol>																				
Patents and proprietary rights	<table border="0"> <tr> <td>1. <i>Integrated Health Socialization: Preventing Hypertension, Diabetes, Tuberculosis, and The Dangers of Drugs in Pepara Village, Paser Regency.</i></td> <td>2025</td> </tr> <tr> <td>2. <i>School-based Waste Management Module.</i></td> <td>2024</td> </tr> <tr> <td>3. <i>Ecotourism-based Mahakam Cascade Lake Conservation Module.</i></td> <td>2024</td> </tr> <tr> <td>4. <i>Food Source Plants for Kelulut (Heterotrigona itama Cockerell) in Belimau, Lempake Village, North Samarinda, East Kalimantan.</i></td> <td>2024</td> </tr> <tr> <td>5. <i>Mahakam Cascade Lake Water Quality Module.</i></td> <td>2024</td> </tr> <tr> <td>6. <i>Etanol Extract of Sange-Sange Leaves (Macaranga conifera) as Anti Diabetes.</i></td> <td>2023</td> </tr> <tr> <td>7. <i>Transverse Lake Water Quality Inspection Report 2021</i></td> <td>2023</td> </tr> <tr> <td>8. <i>Ethanol Extract of Polok Leaves (Ptemandra azurea) Used for Colon Cancer Treatment.</i></td> <td>2023</td> </tr> <tr> <td>9. <i>Lake Semayang Water Quality Inspection Report 2021</i></td> <td>2023</td> </tr> <tr> <td>10. <i>Biotechnology and Its Application in Science Research and Learning</i></td> <td>2022</td> </tr> </table>	1. <i>Integrated Health Socialization: Preventing Hypertension, Diabetes, Tuberculosis, and The Dangers of Drugs in Pepara Village, Paser Regency.</i>	2025	2. <i>School-based Waste Management Module.</i>	2024	3. <i>Ecotourism-based Mahakam Cascade Lake Conservation Module.</i>	2024	4. <i>Food Source Plants for Kelulut (Heterotrigona itama Cockerell) in Belimau, Lempake Village, North Samarinda, East Kalimantan.</i>	2024	5. <i>Mahakam Cascade Lake Water Quality Module.</i>	2024	6. <i>Etanol Extract of Sange-Sange Leaves (Macaranga conifera) as Anti Diabetes.</i>	2023	7. <i>Transverse Lake Water Quality Inspection Report 2021</i>	2023	8. <i>Ethanol Extract of Polok Leaves (Ptemandra azurea) Used for Colon Cancer Treatment.</i>	2023	9. <i>Lake Semayang Water Quality Inspection Report 2021</i>	2023	10. <i>Biotechnology and Its Application in Science Research and Learning</i>	2022
1. <i>Integrated Health Socialization: Preventing Hypertension, Diabetes, Tuberculosis, and The Dangers of Drugs in Pepara Village, Paser Regency.</i>	2025																				
2. <i>School-based Waste Management Module.</i>	2024																				
3. <i>Ecotourism-based Mahakam Cascade Lake Conservation Module.</i>	2024																				
4. <i>Food Source Plants for Kelulut (Heterotrigona itama Cockerell) in Belimau, Lempake Village, North Samarinda, East Kalimantan.</i>	2024																				
5. <i>Mahakam Cascade Lake Water Quality Module.</i>	2024																				
6. <i>Etanol Extract of Sange-Sange Leaves (Macaranga conifera) as Anti Diabetes.</i>	2023																				
7. <i>Transverse Lake Water Quality Inspection Report 2021</i>	2023																				
8. <i>Ethanol Extract of Polok Leaves (Ptemandra azurea) Used for Colon Cancer Treatment.</i>	2023																				
9. <i>Lake Semayang Water Quality Inspection Report 2021</i>	2023																				
10. <i>Biotechnology and Its Application in Science Research and Learning</i>	2022																				
Important publications over the last 5 years	<ol style="list-style-type: none"> <li>1. Minarti, M., Ariani, N., Megawati, M., Hidayat, A., Hendra, M., Primahana, G., &amp; Darmawan, A. (2024). Potential Antioxidant Activity Methods DPPH, ABTS, FRAP, Total Phenol and Total Flavonoid Levels of <i>Macaranga hypoleuca</i> (Reichb. f. &amp; Zoll.) Leaves Extract and Fractions. <i>E3S Web of Conferences</i>, 503, 1-13. <a href="https://doi.org/10.1051/e3sconf/202450307005">https://doi.org/10.1051/e3sconf/202450307005</a></li> <li>2. Rusman, R., Octaviani, E., Rosamah, E., Hendra, M., Fatriasari, W., &amp; Kusuma, I. W. (2024). Phytochemicals and Biological Activities of Selected Invasive Medicinal Plants. <i>AIP Conference Proceeding</i>, 3095(1). <a href="https://doi.org/10.1063/5.0207858">https://doi.org/10.1063/5.0207858</a></li> <li>3. Oktavianingsih, L., Hendra, M., &amp; Arif, M. F. (2024). Diversity of <i>Citrus</i> spp. from North Penajam Paser Regency (IKN), East Kalimantan, Based on Morphological Characters. <i>BIOTROPIA</i>, 31(2), 157-168. <a href="https://doi.org/10.11598/btb.2024.31.2.1872">https://doi.org/10.11598/btb.2024.31.2.1872</a></li> <li>4. Hendra, M., Rukmi, D. S., Effendi, S., Freminci, &amp; Auliana. (2023). Ethnobiology Study: Game in Dayak Lun Dayeh Community at Watershed of Mentarang in Malinau. <i>Journal of Tropical Forest Management</i>, 29(1), 68-78. <a href="https://doi.org/10.7226/jtjm.29.1.68">https://doi.org/10.7226/jtjm.29.1.68</a></li> <li>5. Ibrahim, Rosamah, E., Hendra, M., Sudiono, E., Rifqi, M. A., &amp; Kusuma, I. W. (2023). Antimicrobial, Antioxidant and Phytochemical Activities of Three Orangutan Plant Foods in Wehea-Kelay Landscape, East Kalimantan. <i>IOP Conf. Series: Earth and Environmental Science</i>, 1282(1), 1-10. <a href="https://doi.org/10.1088/1755-1315/1282/1/012042">https://doi.org/10.1088/1755-1315/1282/1/012042</a></li> <li>6. Andini, A. S. A., Arung, E. T., Hendra, M., Suryadana, M. D., Sudiono, E., Rifqi, M. A., &amp; Kusuma, I. W. (2023). Biological Activities and Phytochemicals of Five Orangutan Food Plants from Wehea-Kelay Landscape. <i>IOP Conf. Series: Earth and Environmental Science</i>, 1282(1), 1-9. <a href="https://doi.org/10.1088/1755-1315/1282/1/012040">https://doi.org/10.1088/1755-1315/1282/1/012040</a></li> </ol>																				



Activities in specialist bodies over the last 5 years	<i>Society for Indonesian Biodiversity</i>	<i>Member</i>	<i>Present</i>
	<i>Promoters of Indonesian Plant Taxonomy</i>	<i>Member</i>	<i>Present</i>
	<i>Indonesian Limnological Society</i>	<i>Member</i>	<i>Present</i>



## Staff Handbook



Name	<i>Dr.rer.nat. Bodhi Dharma, S.Si., M.Si.</i>		
Post	<i>Assistant Professor (Microbial Molecular Genetics)</i>		
Academic career	<i>Doctorate (Biology)</i>	<i>Wesfälische Wilhelms Universität - Münster (DE)</i>	<i>2013</i>
	<i>Master's (Biology)</i>	<i>Andalas University</i>	<i>2003</i>
	<i>Undergraduate degree (Biology)</i>	<i>Andalas University</i>	<i>1998</i>
Employment	<i>Lecturer</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li><i>1. Identification and Characterization of Bacillus spp. As a Biolarvicidal Agent for Aedes aegypti Using A Molecular Method Approach (2023). 15 million IDR. (Member)</i></li> <li><i>2. Analysis of Soil Bacterial Community Structure Profile and Screening Potential of Indigenous Bacillus thuringiensis As a Bioinsecticide Candidate for Aedes aegypti Mosquito (2022). 17 million IDR. (Leader)</i></li> </ol> <p><i>The history can be viewed at the following:</i></p> <p><i>Scopus ID: -</i>  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6654415">https://sinta.kemdiktisaintek.go.id/authors/profile/6654415</a></p>		
Industry collaborations over the last 5 years	<i>Isolation of Endophytic Fungi Producing Bioflavor Compounds from Local Plants from East Kalimantan. (Collaborative Research Grant, BRIN)</i>		



Patents and proprietary rights	-
Important publications over the last 5 years	<ol style="list-style-type: none"> <li>1. Yuliatin, E., Hariani, N., Dharma, B., Patang, F., &amp; Budiman, B. (2025). <i>Comparison of Rhizobacterial Communities Between Secondary Forest and Palm Oil Plantations in East Kalimantan, Indonesia</i>. <i>Biodiversity</i>, 26(1), 490-499. <a href="https://doi.org/10.13057/biodiv/d260148">https://doi.org/10.13057/biodiv/d260148</a></li> <li>2. Sarungu, S., Willard, K., Ryka, H., Tampang, S., Tasik, J. T., Dharma, B., &amp; Afrida, S. (2022). <i>Production of Bioethanol from Dragon Fruit Wastes by using Aspergillus niger and Saccharomyces cerevisiae</i>. In <i>6th International Conference of Food, Agriculture, and Natural Resource (IC-FANRES 2021)</i> (pp. 238-241). Atlantis Press. <a href="https://doi.org/10.2991/absr.k.220101.032">https://doi.org/10.2991/absr.k.220101.032</a></li> <li>3. Dharma, B., Mallisa, E., &amp; Oktavianingsih, L. (2022). <i>Lipase-producing yeast and partial characterization of its morphology</i>. <i>Journal of Indonesian mycology</i>, 6(1), 15-28.</li> <li>4. Wulandari, D., Qodrie, E. N. P., Dharma, B., &amp; Tiwi, P. (2020). <i>Antibactery Activity of Fusarium sp. CSP-4 Endofit Fungus Culture Extracts Isolated from Curcuma sumatrana Miq.</i> <i>Biological News</i>, 19(1), 71-76. <a href="https://doi.org/10.14203/beritabiologi.v19i1.3350">10.14203/beritabiologi.v19i1.3350</a></li> </ol>
Activities in specialist bodies over the last 5 years	-



## Staff Handbook



Name	<i>Dijan Sunar Rukmi, S.Si., M.Si.</i>		
Post	<i>Assistant Professor (Vertebrate Taxonomy)</i>		
Academic career	<i>Doctorate (Biological Sciences)</i>	<i>Chulalongkorn University</i>	
	<i>Master's (Biology / Zoology)</i>	<i>IPB University</i>	<i>2002</i>
	<i>Undergraduate degree (Biology)</i>	<i>Brawijaya University</i>	<i>1994</i>
Employment	<i>Lecturer</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li><i>1. Study of The Composition, Structure, and Architectural Model of Trees in The Karang Mumus River Rehabilitation Area, Samarinda (2024). 12 million IDR. (Member)</i></li> <li><i>2. Socialization Of Effective Mosquito Control With Integrated Methods In RT 024 Lempake Urban Village, North Samarinda Sub-District, Samarinda City (2024). 8 million IDR. (Member)</i></li> <li><i>3. Biological Aspects of Habitat Preference of Lurai Fish (Corica soborna Hamilton, 1822) A New Record From The Lower Mahakam River, East Kalimantan (2023). 15 million IDR. (Member)</i></li> </ol> <p><i>The history can be viewed at the following:</i></p> <p><i>Scopus ID: -</i>  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6732228">https://sinta.kemdiktisaintek.go.id/authors/profile/6732228</a></p>		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	<i>1. Poster Food Loss And Food Waste</i>		<i>2024</i>



Important publications over the last 5 years	<ol style="list-style-type: none"> <li>1. Hendra, M., Rukmi, D. S., &amp; Subagiada, K. (2025). Structure, Composition, and Architectural Models of Trees in Karang Mumus River Rehabilitation Area Lempake, Samarinda. <i>Biology News</i>, 24(1), 73-84. <a href="https://doi.org/10.55981/berita_biologi.2025.9469">https://doi.org/10.55981/berita_biologi.2025.9469</a></li> <li>2. Ulandari, R., Jusmaldi, J., &amp; Rukmi, D. S. (2024). Diversity and Abundance of Non-Volant Small Mammals in Oil Palm Plantations of Setabu Village, Sebatik Island, North Kalimantan. <i>BIOPROSPECT: Scientific Journal of Biology</i>, 16(1), 37-44. <a href="https://doi.org/10.30872/bp.v16i1.1292">https://doi.org/10.30872/bp.v16i1.1292</a></li> <li>3. Hendra, M., Rukmi, D. S., Effendi, S., Freminci, &amp; Auliana. (2023). Ethnobiology Study: Game in Dayak Lun Dayeh Community at Watershed of Mentarang in Malinau. <i>Journal of Tropical Forest Management</i>, 29(1), 68-78. <a href="https://doi.org/10.7226/jtfm.29.1.68">https://doi.org/10.7226/jtfm.29.1.68</a></li> <li>4. Rukmi, D. S., Hendra, M., &amp; Bashar, M. (2023). Study of natural food sources of proboscis monkey (<i>Nasalis larvatus</i>) in the buffer zone of new capital city of Indonesia. In <i>International Conference of Tropical Studies and its Applications (ICTROPS 2022)</i> (pp. 378-386). Atlantis Press.</li> <li>5. Hasrul, H., Rukmi, D. S., &amp; Lariman, L. (2023). Primate Distribution In Forest Fragmentation Area Along Tunan River, Waru Sub-District, Penajam Paser Utara District, East Kalimantan. <i>BIOPROSPECT: Scientific Journal of Biology</i>, 15(2), 35-42. <a href="https://doi.org/10.30872/bp.v15i2.1231">https://doi.org/10.30872/bp.v15i2.1231</a></li> <li>6. Jusmaldi, J., Nuramelia, N., Arif, M. F., Hendra, M., Rukmi, D. S., &amp; Rosadi, I. (2023). Biological and Habitat Aspects of Lurai Fish (<i>Corica soborna</i> Hamilton, 1822) from The West of The Mahakam Sungai, East Kalimantan <i>Biological News</i>, 22(3), 343-356. <a href="https://doi.org/10.55981/beritabiologi.2023.1075">https://doi.org/10.55981/beritabiologi.2023.1075</a></li> <li>7. Barru, A. M., &amp; Rukmi, D. S. (2022). Distribution of Proboscis Monkeys (<i>Nasalis Larvatus</i> Wurmb, 1787) in Forest Fragmentation Area, Tunan River, Waru District, East Kalimantan, Indonesia. <i>International Journal of Research and Innovation in Social Science</i>, 6(7), 602-604.</li> <li>8. Hariani, N., Kusuma, R., Samsurianto, S., Patang, F., Oktavianingsih, L., &amp; Rukmi, D. S. (2022). Community Empowerment Suwandi, Samarinda Ulu: Kitchen Organic Waste for The Earth with Eco Enzymes. <i>GLOBAL ABDIMAS: Journal of Community Service</i>, 2(1), 36-44.</li> </ol>			
Activities in specialist bodies over the last 5 years	<table style="width: 100%; border: none;"> <tr> <td style="width: 60%; border: none;">Society For Indonesian Biodiversity</td> <td style="width: 20%; border: none;">Member</td> <td style="width: 20%; border: none;">Present</td> </tr> </table>	Society For Indonesian Biodiversity	Member	Present
Society For Indonesian Biodiversity	Member	Present		



## Staff Handbook



Name	Dr. Eko Kusumawati, S.Si, MP		
Post	Associate Professor (Microbiology)		
Academic	Doctorate (Biology)	Brawijaya University	2024
career	Master's (Agroindustrial Biotechnology)	Brawijaya University	2009
	Undergraduate degree (Biology)	Mulawarman University	2007
Employment	Lecturer	Faculty of Mathematics and Natural Sciences	Present
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li>1. Exploration of Kokang Leaf Bioactivity (<i>Lepisanthes amoena</i> (Hassk) Leenh.): Phytochemical screening, Antioxidant and Antibacterial Activities on <i>In vitro</i> <i>Cutibacterium acnes</i> (2025). 25 million IDR. (Leader)</li> <li>2. Exploration of Pathogenic Bacteria in Talas (<i>Colocasia esculenta</i>): Early Strategy Against Plant Disease (2025). 10 million IDR. (Member)</li> <li>3. Bioactivity of Antioxidants in Lai Leaf Extract (<i>Durio kutejensis</i> Hassk. Bec.), an Endemic Plant of Borneo, and its GC-MS and Phytochemical Analysis (2021). 35 million IDR. (Member)</li> </ol> <p>The history can be viewed at the following:  <a href="https://scopus.com/authorid/57193714546">Scopus ID: 57193714546</a>  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6157076">https://sinta.kemdiktisaintek.go.id/authors/profile/6157076</a></p>		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	<ol style="list-style-type: none"> <li>1. The Potential of Ants' Nest as a Phytopharmaceutical Ingredient 2025</li> <li>2. Bacterial Diversity Of Mangrove Ecosystem In Klawalu Sorong, West Papua, Indonesia 2024</li> <li>3. Sampling Technique Poster 2024</li> </ol>		



Important publications over the last 5 years	<ol style="list-style-type: none"> <li>1. Kusumawati, E., Retnaningdyah, C., Mustafa, I., &amp; Suharjono. (2024). Physicochemical variation of water, diversity, and bacteria community structure in post-coal mining ponds of different ages in Samarinda, East Kalimantan, Indonesia. <i>Global NEST Journal</i>, 26(5), 1-8. <a href="https://doi.org/10.30955/qnj.005752">https://doi.org/10.30955/qnj.005752</a></li> <li>2. Kusumawati, E., Retnaningdyah, C., Mustafa, I., &amp; Suharjono. (2024). Screening, identification, and optimization of sulfur-oxidizing bacteria from post-coal mining ponds of different ages in Samarinda, East Kalimantan, Indonesia. <i>Global NEST Journal</i>, 26(3), 05513. <a href="https://doi.org/10.30955/qnj.005513">https://doi.org/10.30955/qnj.005513</a></li> <li>3. Hetty Manurung, Dwi Susanto, Eko Kusumawati, Riska D Sari. Phytochemical, GC-MS analysis and antioxidant activities of leaf methanolic extract of Lai (<i>Durio kutejensis</i>), the endemic plant of Kalimantan, Indonesia. <i>Journal Biodiversitas</i> Vol 23 No 11. <a href="https://doi.org/10.13057/biodiv/d231104">https://doi.org/10.13057/biodiv/d231104</a></li> <li>4. Sukmawati, Febrianti Rosalina, Sipriyadi, Nurul Kusuma Dewi, Melda Yunita, Abdul Ridha Taha Sarhan, Yeni Rahayu, Eko Kusumawati. Short Communication: Bacterial diversity of mangrove ecosystem in Klawalu Sorong, West Papua, Indonesia. <i>Journal Biodiversitas</i> Vol 23 No 3. : <a href="https://doi.org/10.13057/biodiv/d230329">https://doi.org/10.13057/biodiv/d230329</a></li> <li>5. Eko Kusumawati, Rudy Agung Nugroho, Retno Aryani, Hetty Manurung, Yanti Puspita Sari. 2021. Training on Extraction Techniques, Screening, and Antimicrobial Testing of Natural Materials for High School Teachers in Samarinda City JPM (Community Empowerment Journal). Vol 6 No 1. <a href="https://doi.org/10.21067/jpm.v6i.4040">https://doi.org/10.21067/jpm.v6i.4040</a></li> <li>6. Nurdahniyati, Nunung Handayani, Dirgarini Julia Nurlianti Subagyono, Eko Kusumawati. Antibacterial Test of Ag/SBA-15 from Petung Bamboo Leaf Ash against <i>Escherichia coli</i> Bacteria. <i>Mulawarman Journal of Chemistry</i>. Vol 17No 2</li> <li>7. Eko Kusumawati, Wiwid Ramadani Saputri, Risa Supriningrum. In vitro Antifungal Activity Test of Ethanol Extract of KB Root (<i>Coptosapelta tomentosa</i> Valetton ex K. Heyne) against <i>Candida albicans</i>. <i>Polhasains: Journal of Science and Applied Research of Hasnur Polytechnic</i>. Vol 8 No 1. <a href="https://doi.org/10.46365/phssains.v8i01.418">https://doi.org/10.46365/phssains.v8i01.418</a></li> <li>8. Rudy Agung Nugroho, Retno Aryani, Wulan Dwi Cahyo Anggraini, Esti Handayani Hardi, Rudianto, Eko Kusumawati, Sudrajat, Firman M Nur, Hetty Manurung. Dietary <i>Terminalia catappa</i> leaves reduced growth performance but increased hematological profiles and survival rate of <i>Pangasianodon hypophthalmus</i>. <i>IOP Conference Series : Earth and Environmental Science</i> 348, 1, 12033. <a href="https://doi.org/10.1088/1755-1315/348/1/012033">https://doi.org/10.1088/1755-1315/348/1/012033</a></li> <li>9. Eko Kusumawati, Nanang Tri Widodo. Potential sulfate reducing bacteria for decrease Fe and Mn determination agents on ex-coal mining soil in Samarinda. <i>Journal of Physics : Conference Series</i> 1277, 1, 12009. <a href="https://doi.org/10.1088/1742-6596/1277/1/012009">https://doi.org/10.1088/1742-6596/1277/1/012009</a></li> <li>10. Nurlilayanti, Eko Kusumawati, Rudy Agung Nugroho. The Effect of <i>Lactobacillus casei</i> Fermented Milk on Hematology of Mice (<i>Mus musculus</i>) Infected with <i>Salmonella enterica</i> Serovar Typhi. <i>Bioprospek: Scientific Journal of Biology</i>. Vol 14 No 1</li> </ol>			
Activities in specialist bodies over the last 5 years	<table style="width: 100%; border: none;"> <tr> <td style="width: 60%; border: none;">Society for Masyarakat Bioinformatika dan Biodiversitas Indonesia</td> <td style="width: 20%; border: none; text-align: center;">Member</td> <td style="width: 20%; border: none; text-align: center;">Present</td> </tr> </table>	Society for Masyarakat Bioinformatika dan Biodiversitas Indonesia	Member	Present
Society for Masyarakat Bioinformatika dan Biodiversitas Indonesia	Member	Present		



## Staff Handbook



Name	<i>Imam Rosadi, M.Si</i>		
Post	<i>Lecturer of Biology (Biotechnology)</i>		
Academic career	<i>Master's (Biology Education)</i>	<i>Bandung Institute of Technology</i>	<i>2018</i>
	<i>Undergraduate degree (Biology)</i>	<i>Al-Azhar University Indonesia</i>	<i>2014</i>
Employment	<i>Lecturer</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li><i>1. Biological Aspects of Habitat Preference of the Mahakam River Fish (Corica soborna Hamilton, 1822): New Insights from the Lower Mahakam River, East Kalimantan. (2023). 15 million IDR. (Member)</i></li> <li><i>2. Training on Chromosome Analysis and Karyotyping Techniques in Plants. (2023). 9.25 million IDR. (Member)</i></li> <li><i>3. Testing the Potential of Dillenia excelsa (Jack) Martelli ex Gilg Leaf Extract as a Natural Antibacterial and Antioxidant. (2022). 18 million IDR. (Member)</i></li> </ol> <p><i>The history can be viewed at the following:</i></p> <p><i>Scopus ID: <a href="https://scopus.com/authorid/57204720098">57204720098</a></i></p> <p><i><a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6770894">https://sinta.kemdiktisaintek.go.id/authors/profile/6770894</a></i></p>		
Industry collaborations over the last 5 years	<i>DP3AKB of Jember Regency, and NY.R.A Habibie Specialized Kidney Hospital</i>		
Patents and proprietary rights	-		



Important publications over the last 5 years	<ol style="list-style-type: none"> <li>1. Karina, K., Biben, J. A., Ekaputri, K., Krisandi, G., Rosadi, I., Sobariah, S., Afini, I., Widyastuti, T., Zakiyah, A., &amp; Ernanda, D. (2025). Revisiting fat graft harvesting and processing technique to optimize its regenerative potential. <i>Plastic and Reconstructive Surgery - Global Open</i>, 13(1), e6420. <a href="https://doi.org/10.1097/GOX.00000000000006420">https://doi.org/10.1097/GOX.00000000000006420</a></li> <li>2. Ansori, A. N., Murtadlo, A. A. A., Kharisma, V. D., Muchtaromah, B., Tamam, M. B., Turista, D. D. R., Rosadi, I., Jakhmola, V., Parashar, T., Saklani, T., Rebezov, M., Zainul, R., Purnobasuki, H., Fadhollyo, A., &amp; Kusala, M. (2024). A spotlight on gamma-mangostin: Exploring its potential as antiviral agents. <i>Journal of Medicinal and Pharmaceutical Chemistry Research</i>. <a href="https://doi.org/10.48309/JMPCR.2024.417737.1005">https://doi.org/10.48309/JMPCR.2024.417737.1005</a></li> <li>3. Rosadi, I., Karina, K., Dewi, P. A. S., Barlian, A., Az Zahra, T. F., Kharisma, V. D., Ansori, A. N. (2024). Stem cell research in Indonesia from 2003 to 2022: A bibliometrics analysis. <i>Journal of Pharmacy &amp; Pharmacognosy Research</i>, 12(3), 557-572. <a href="https://doi.org/10.56499/jppres23.1687_12.3.557">https://doi.org/10.56499/jppres23.1687_12.3.557</a></li> <li>4. Rosadi I, Indrady FT, Karina K, Hariani N. 2022. Evaluation effects of ascorbic acid leads to activate and induce osteogenic protein marker expression: in silico and in-vitro study. <i>Biomedical Research and Therapy</i>, 9(1), 4832-4841.</li> <li>5. Karina K, Rosadi I, Krisandi G, Sibuea TP, Biben JA, Ekaputri K, Nazma D, Maryam A, Sobariah S, Jaman EC, Wibisana CS. 2022. Efficacy of Stromal Vascular Fraction and Platelet-Rich Plasma Therapy on Post-COVID-19 Nephrotic Syndrome in Diabetic Type 1 Patient: A Case Report. <i>Journal of Natural Science, Biology and Medicine</i>. 2022 Jan;13(1).</li> <li>6. Karina K, Christoffel LM, Novariani R, Rosadi I, Rosidah S, Sobariah S, Krisandi G, Fatkhurohman N, Puspitaningrum N, Hertati Y, Afini I. 2022. Autologous Activated Platelet-Rich Plasma Therapy for Pregnant COVID-19 Patients: A Case Series. <i>Journal of Natural Science, Biology and Medicine</i>. 2022 Jan;13(1).</li> <li>7. Kharisma VD, Agatha A, Ansori AN, Widyananda MH, Rizky WC, Dings TG, Derkho M, Lykasova I, Antonius Y, Rosadi I, Zainul R. 2022. Herbal combination from <i>Moringa oleifera</i> Lam. and <i>Curcuma longa</i> L. as SARS-CoV-2 antiviral via dual inhibitor pathway: A viroinformatics approach. <i>Journal of Pharmacy &amp; Pharmacognosy Research</i>. 2022:138-46.</li> <li>8. Fibrini D, Lister IN, Rosadi I. 2022. Autologous Platelet-Rich Plasma in The Management of Diabetic Foot Ulcer: A Systematic Review of Randomized Controlled Trials. <i>Journal of Skin and Stem Cell</i>. 2022 Jun 30;9(2).</li> <li>9. Rosadi I, Karina K, Kharisma VD, Ansori AN. 2021. L-ascorbic acid-2-phosphate and Fibrin Substrate Enhances the Chondrogenic Differentiation of Human Adipose-derived Stem Cells. <i>Progress in Stem Cell</i>. 2021 Dec 31;8(2):310-7.</li> </ol>
Activities in specialist bodies over the last 5 years	-



## Staff Handbook



Name	<i>Dr. agr. Budiman, S.Si., M.Si</i>
Post	<i>Lecturer of Biology (Ecology)</i>
Academic career	<i>Doctorate (Organic Agriculture Science) Kassel University 2023</i>
	<i>Master's (Biology) Brawijaya University 2012</i>
	<i>Undergraduate degree (Biology) Brawijaya University 2010</i>
Employment	<i>Lecturer Faculty of Mathematics and Natural Sciences Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li>1. <i>Potential Test and Identification of Indigenous Bacillus spp. Against Aedes aegypti Larvae in Samarinda City. (2024). 12 million IDR. (Member)</i></li> <li>2. <i>Study of Stingless Bees (Trigona spp.) for Beekeeping Development in East Kalimantan. (2023). 75 million IDR. (Member)</i></li> </ol> <p><i>The history can be viewed at the following:</i></p> <p><i>Scopus ID: 56530846000</i>  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6103744">https://sinta.kemdiktisaintek.go.id/authors/profile/6103744</a></p>
Industry collaborations over the last 5 years	-



Patents and proprietary rights	<ol style="list-style-type: none"> <li>1. <i>Potential Test and Identification of Indigenous Bacillus spp. Against Aedes aegypti in Samarinda</i> 2025</li> <li>2. <i>Infographic Map: Facilities, Infrastructure, and Tourist Attractions of Uko Village, Muara Komam District, Paser Regency</i> 2024</li> <li>3. <i>Sorting Waste at Home</i> 2024</li> <li>4. <i>Love Your Gut Microbiome: Simple Recipes to Maintain a Healthy Balance of Good Gut Bacteria</i> 2024</li> <li>5. <i>Insects in Islamic Perspective: Exploring the Importance of Insects in Islam</i> 2024</li> </ol>
Important publications over the last 5 years	<ol style="list-style-type: none"> <li>1. Budiman, C. Steiner, CFE Topp, A. Buerkert. 2020. Soil-climate contribution to DNDC model uncertainty in simulating biomass accumulation under vegetable production on a Petroplinthic Cambisol in Tamale, Ghana. <a href="https://doi.org/10.1002/jpln.201900514">Journal of Plant Nutrition and Soil Science</a>. 183(3). DOI:<a href="https://doi.org/10.1002/jpln.201900514">10.1002/jpln.201900514</a></li> <li>2. Yuliatin, E., Hariani, N., Dharma, B., Patang, F., &amp; Budiman. (2025). Comparison of rhizobacterial communities between secondary forest and palm oil plantations in East Kalimantan, Indonesia. <i>Biodiversity</i>, 26(1), Article 148. <a href="https://doi.org/10.13057/biodiv/d260148">https://doi.org/10.13057/biodiv/d260148</a></li> <li>3. Hariani, N., Budiman, &amp; Patang, F., Yuliatin, E. (2025). Bioprospecting of <i>Bacillus</i> species from East Kalimantan, Indonesia for developing sustainable mosquito larvicides. <i>Biodiversity</i>, 26(3), 1360-1366. <a href="https://doi.org/10.13057/biodiv/d260336">https://doi.org/10.13057/biodiv/d260336</a></li> </ol>
Activities in specialist bodies over the last 5 years	-



## Staff Handbook



Name	Mukhlis, S.Pd., M.Sc.									
Post	Lecturer of Biology (Invertebrate Taxonomy)									
Academic career	<table border="0"> <tr> <td>Master's (Biology Education)</td> <td>Gajah Mada University</td> <td>2017</td> </tr> <tr> <td>Undergraduate degree (Biology)</td> <td>Makassar State University</td> <td>2012</td> </tr> <tr> <td></td> <td>University</td> <td></td> </tr> </table>	Master's (Biology Education)	Gajah Mada University	2017	Undergraduate degree (Biology)	Makassar State University	2012		University	
Master's (Biology Education)	Gajah Mada University	2017								
Undergraduate degree (Biology)	Makassar State University	2012								
	University									
Employment	<table border="0"> <tr> <td>Lecturer</td> <td>Faculty of Mathematics and Natural Sciences</td> <td>Present</td> </tr> </table>	Lecturer	Faculty of Mathematics and Natural Sciences	Present						
Lecturer	Faculty of Mathematics and Natural Sciences	Present								
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li>1. Study of Composition, Structure, and Tree Architecture Models in the Karang Mumus River Rehabilitation Area, Samarinda. (2024). 12 million IDR. (Member)</li> <li>2. Identifying and Characterizing Indigenous <i>Bacillus</i> spp. as Biolarvicidal Agents for <i>Aedes aegypti</i> Using Molecular Approaches. (2023). 15 million IDR. (Member)</li> <li>3. Analysis of Soil Bacterial Community Structure Profile and Screening of Indigenous <i>Bacillus thuringiensis</i> Potential as a Candidate Bioinsecticide for <i>Aedes aegypti</i> Mosquitoes. (2022). 17 million IDR. (Member)</li> <li>4. The Effect of Mekka Leaf Water Extract (<i>Albertia papuana</i> Becc.) on Antioxidant Activity, Biochemical Conditions, and Testosterone Hormone Levels in the Testes of Mice (<i>Mus musculus</i>). (2021). 29.4 million IDR. (Member)</li> <li>5. Environmental Epidemiology of Hookworm Infection and Strongyloidiasis in Indonesia (2020). 135 million IDR. (Member)</li> </ol> <p>The history can be viewed at the following: Scopus ID: - <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6826910">https://sinta.kemdiktisaintek.go.id/authors/profile/6826910</a></p>									
Industry collaborations over the last 5 years	<p>Plant Site PT Badak NGL Bontang, East Kalimantan; North Kalimantan</p> <p>-</p>									





## Staff Handbook



Name	Muhammad Fauzi Arif, S.Si., M.Sc.
Post	Lecturer of Biology (Genetics)
Academic career	Master's (Biology) Gadjah Mada University 2019
	Undergraduate degree (Biology) Gadjah Mada University 2017
Employment	Lecturer Faculty of Mathematics and Natural Sciences Present
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li>1. Genetic Diversity and Phylogenetic Relationships of Chili (<i>Capsicum spp.</i>) in Penajam Paser Utara Regency (IKN) Based on Morphological and Molecular Characteristics (Chloroplast Gene and ITS). (2024). 12 million IDR. (Member)</li> <li>2. Training on Chromosome Analysis and Karyotyping Techniques in Plants. (2023). 9.25 million IDR. (Member)</li> <li>3. Biological Aspects of Habitat Preference of the Mahakam River Fish (<i>Corica soborna</i> Hamilton, 1822): New Insights from the Lower Mahakam River, East Kalimantan. (2023). 15 million IDR. (Member)</li> <li>4. Testing the Potential of <i>Dillenia excelsa</i> (Jack) Martelli ex Gilg Leaf Extract as a Natural Antibacterial and Antioxidant. (2022). 18 million IDR. (Member)</li> </ol> <p>The history can be viewed at the following:  Scopus ID: <a href="https://scopus.com/authors/details/57211296309">57211296309</a>  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6796542">https://sinta.kemdiktisaintek.go.id/authors/profile/6796542</a></p>
Industry collaborations over the last 5 years	Cattle Breeder Communities in Sangatta, East Kalimantan.



<p>Patents and proprietary rights</p>	<ol style="list-style-type: none"> <li>1. <i>Basic Biochemistry Book 2</i> 2025</li> <li>2. <i>Guidelines for Writing Laboratory Equipment Usage in the Basic Biology Laboratory of FMIPA UNMUL</i> 2024</li> <li>3. <i>Challenges and Future of Protein Target Prediction in Various Fields</i> 2024</li> <li>4. <i>Genetic Conservation Project, FMIPA, Unmul 2024 - Sumatran Tiger Conservation Strategy</i> 2024</li> <li>5. <i>Molecular Biology Project, FMIPA, Unmul 2024 - Applications of Molecular Biology in Various Fields</i> 2024</li> <li>6. <i>Virtual Screening Analysis of Natural Anti-Aging Compounds as Candidate Inhibitors of MMP1 Protein Complex</i> 2024</li> <li>7. <i>Genetic Conservation Course Project, FMIPA, Unmul 2023 - The Importance of Genetic Conservation</i> 2023</li> <li>8. <i>Introduction to the Cloud-Based Biotechnology Platform 'Benchling' for Introduction to Biotechnology Course</i> 2022</li> <li>9. <i>Simple Techniques for Making Virgin Coconut Oil (VCO)</i> 2022</li> <li>10. <i>Learning Video: Cancer Genetics</i> 2020</li> </ol>
<p>Important publications over the last 5 years</p>	<ol style="list-style-type: none"> <li>1. Aristya, G. R., Budiman, M. S., Kasiamdari, R. S., Widiastuti, A., &amp; Arif, M. F. (2025). Genetic variation and phylogenetic analysis of strawberry (<i>Fragaria spp.</i>) on Yogyakarta and Central Java, Indonesia, based on <i>rbcL</i> DNA barcoding. <i>Pakistan Journal of Biological Sciences</i>, 28(3), 121-130. <a href="https://doi.org/10.3923/pjbs.2025.121.130">https://doi.org/10.3923/pjbs.2025.121.130</a></li> <li>2. Aristya, G. R., Kusuma, F. R., &amp; Arif, M. F. (2024). Carrot (<i>Daucus carota L.</i>) chromosome analysis and their impact on genetic diversity. <i>SABRAO Journal of Breeding and Genetics</i>, 56(6), 2321-2330. <a href="https://doi.org/10.54910/sabrao2024.56.6.13">https://doi.org/10.54910/sabrao2024.56.6.13</a></li> <li>3. Oktavianingsih, L., Crisdayanti, N., Arif, M. F., &amp; Hendra, M. (2024). Diversity of <i>Citrus spp.</i> from Penajam Paser Utara, East Kalimantan based on morphological characters. <i>Biotropia</i>, 31(2), 1872. <a href="https://doi.org/10.11598/btb.2024.31.2.1872">https://doi.org/10.11598/btb.2024.31.2.1872</a></li> <li>4. Ahadi Damar Prasetya, Muflikhah, Wildan Zakiah Lubis, Muhammad Fauzi Arif, Grace Tjungirai Sulungbudi, Mujamilah, Andon Insani 2023. Synthesis Method Variations Effects on Magnetic-Silica Particles Characteristics and Its Potential for Nucleic Acid Adsorption. <i>AIP Conference Proceedings</i>, 2902: 080005.</li> <li>5. Ganies Riza Aristya, Galang Riswi Dyatama, Chalvia Zuyyina, Nurina Tahta Afwi Maulina, Arni Musthofa, Muhammad Fauzi Arif, Rina Sri Kasiamdari. 2023. Relationship analysis of <i>FaPYR1</i> and <i>FaCHS</i> genes encoding fruit ripening of three species of strawberries (<i>Fragaria spp.</i>) fruit. <i>Biodiversitas</i> 24: 87-97.</li> <li>6. Linda Oktavianingsih, Nur Miati, Muhammad Fauzi Arif, Medi Hendra. 2023. <i>Araceae</i> on the forest flor of Berambai Waterfall, Samarinda, East Kalimantan, <i>Jurnal Biologi Udayana</i> 27(1): 26-35.</li> <li>7. Muhammad Fauzi Arif, Ahadi Damar Prasetya, Indra Lesmana, Niken Satuti Nur Handayani. 2023. Comparison of ATL and triton lysis buffers for saliva DNA extraction using modified magnetic-silica nanoparticle beads. <i>Journal of Tropical Biology</i>, 1 (1): 1-8.</li> <li>8. Rina Sri Kasiamdari, Adiana Nayogyani, Ismiy Noer Wahyuni, Muhammad Fauzi Arif, Ganies Riza Aristya. 2021. Morphological and PCR-based characterisation of <i>Podosphaera aphanis</i> (Wallr.) U. Braun &amp; S. Takamatsu causing powdery mildew disease in strawberry in Java, <i>Archives of Phytopathology and Plant Protection</i>, 54:15-16, 990-1000.</li> </ol>



	9. <i>Muhammad Fauzi Arif, Dyah Subositi, Aniska Novita Sari, Ganies Riza Aristya, Indra Lesmana, Rina Sri Kasiamdari. 2020. Genetic Diversity of Green Chireta (Andrographis paniculata (Burm.F.) Wall. Ex Nees.) from Indonesia based on ISSR and RAPD Markers. Malaysia Applied Biology 49(1): 61–68.</i>
Activities in specialist bodies over the last 5 years	-



## Staff Handbook



Name	<i>Ervinda Yuliatin, S.Si., M.Si</i>		
Post	<i>Lecturer of Biology (Microbiology)</i>		
Academic career	<i>Master's (Biology)</i>	<i>Brawijaya University</i>	<i>2020</i>
	<i>Undergraduate degree (Biology)</i>	<i>Mulawarman University</i>	<i>2015</i>
Employment	<i>Lecturer</i>	<i>Faculty of Mathematics and Natural Sciences</i>	<i>Present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <li>1. <i>Exploration of Microbes Producing Alpha-Amylase Enzyme in Maggots and BSF Larvae from Variations of Market Organic Waste Using a Metagenomic Approach. (2024). 139.66 million IDR. (Member)</i></li> <li>2. <i>Potential Testing and Identification of Indigenous Bacillus spp. Against Aedes aegypti Larvae in Samarinda City. (2023). 12 million IDR. (Member)</i></li> <li>3. <i>Identification and Characterization of Indigenous Bacillus spp. as Bio-Larvicidal Agents for Aedes aegypti Using Molecular Methods. (2023). 15 million IDR. (Member)</i></li> <li>4. <i>Analysis of Soil Bacterial Community Structure Profile and Screening of Indigenous Bacillus thuringiensis Potential as a Candidate Bioinsecticide for Aedes aegypti Mosquitoes. (2022). 17 million IDR. (Member)</i></li> <li>5. <i>Environmental Epidemiology of Hookworm Infection and Strongyloidiasis in Indonesia. (2020). 135 million IDR. (Member)</i></li> </ol> <p><i>The history can be viewed at the following:</i></p> <p><i>Scopus ID: 57214228707</i>  <a href="https://sinta.kemdiktisaintek.go.id/authors/profile/6816681">https://sinta.kemdiktisaintek.go.id/authors/profile/6816681</a></p>		
Industry collaborations over the last 5 years	-		



<p>Patents and proprietary rights</p>	<ol style="list-style-type: none"> <li>1. <i>Report Book: Inventory Activities and Regional Greenhouse Gas Emission Action Plan (RAD-GRK) of Kutai Kartanegara Regency in 2024</i> 2025</li> <li>2. <i>Report Book: Preparation of the Greenhouse Gas Emission Inventory Document for Bulungan Regency in 2024</i> 2025</li> <li>3. <i>Insects in the Islamic Perspective: Exploring the Importance of Insects in Islam</i> 2024</li> <li>4. <i>Research Output Poster</i> 2024</li> <li>5. <i>Waste Sorting at Home</i> 2024</li> <li>6. <i>Knowledge and Understanding of Insects: The Wonders of the Small World in Ecosystems</i> 2024</li> <li>7. <i>Love Your Gut Microbiome: Simple Recipes to Maintain the Balance of Good Gut Bacteria</i> 2024</li> </ol>
<p>Important publications over the last 5 years</p>	<ol style="list-style-type: none"> <li>1. Yuliatin, E., Hariani, N., Dharma, B., Patang, F., &amp; Budiman. (2025). Comparison of rhizobacterial communities between secondary forest and palm oil plantations in East Kalimantan, Indonesia. <i>Biodiversity</i>, 26(1), Article 148. <a href="https://doi.org/10.13057/biodiv/d260148">https://doi.org/10.13057/biodiv/d260148</a></li> <li>2. Hariani, N., Budiman, &amp; Patang, F., Yuliatin, E. (2025). Bioprospecting of <i>Bacillus</i> species from East Kalimantan, Indonesia for developing sustainable mosquito larvicides. <i>Biodiversity</i>, 26(3), 1360-1366. <a href="https://doi.org/10.13057/biodiv/d260336">https://doi.org/10.13057/biodiv/d260336</a></li> <li>3. Yuliatin, E., &amp; Faizah, M. (2023). Characteristics and potential of rhizosphere bacteria producing indole acetic acid associated with coffee plants (<i>Coffea</i> spp.). <i>Pro-Life</i>, 10(2), 804-816.</li> <li>4. Yuliatin, E., Rosadi, I., Hariani, N., Oktavianingsih, L., Fadhlillah, L., &amp; Arinda, I. (2023). The ecological significance of plant growth promoting rhizobacteria in tropical soil of Kalimantan: A narrative review. <i>Journal of Tropical Life Science</i>, 13(2), 407-420. <a href="https://doi.org/10.11594/jtls.13.02.20">https://doi.org/10.11594/jtls.13.02.20</a></li> <li>5. <b>Ervinda Yuliatin</b>, Imam Rosadi, Nova Hariani, Linda Oktavianingsih, Lutfi Fadhlillah, Ivoryta Arinda. The Ecological Significance of Plant Growth Promoting Rhizobacteria in Tropical Soil Kalimantan: A Narrative Review. <i>Journal of Tropical Life Science</i>. 13(2):405-418.</li> <li>6. Kusuma, R., Yuliatin, E., Samsurianto, &amp; Azizah, W. (2023). Growth response of protocorm-like bodies (PLBs) of sugarcane orchid (<i>Grammatophyllum scriptum</i> Blume) to modified Murashige and Skoog (MS) media in vitro. <i>Paspalum: Journal of Agricultural Science</i>, 11(1), 42-50.</li> </ol> <p>Suharjo, &amp; Yuliatin, E. (2023). Coffee plant rhizosphere bacterial community and its potential as a plant growth promoter. <i>Biodiversity: Journal of Biodiversity</i>, 23(11), 5822-5834.</p>
<p>Activities in specialist bodies over the last 5 years</p>	<p><i>Indonesian Bioinformatics and Biodiversity Society</i> Member Present</p>

**MERDEKA  
BELAJAR**



# Mulawarman University

Center of Excellence for  
Tropical Studies