



STAFF HANDBOOK



**Master's Program of Biotechnology
Postgraduate
UNIVERSITAS JEMBER**

Homepage: <https://bioteknologi.pasca.unej.ac.id>

2022

TEACHING STAFFS

Prof. Tri Agus Siswoyo, Ph.D

Prof. Wiwiek Sri Wahyuni, Ph.D

Jayus, Ph.D

Ari Satia Nugraha, Ph.D

Banun Kusumawardani, Ph.D

Didik Pudji Restanto, Ph.D

Erlia Narulita, Ph.D

Erma Sulistyaningsih, Ph.D

Anak Agung Istri Ratnadewi, Ph.D

Kartika Senjarini, Ph.D

Nurhayati, Ph.D

Parawita Dewanti, Ph.D

Bambang Piluharto, Ph.D

Hardian Susilo Addy, Ph.D

Tri Handoyo, Ph.D

Wahyu Indra Duwi Fanata, Ph.D

Mohammad Ubaidillah, Ph.D



Name	Prof. Tri Agus Siswoyo, Ph.D	
Post	Professor	
Academic career	Lecturer	<i>University of Jember</i> 1998
	Doctor in Applied Biological Sciences	Osaka Pref. University 2002
	Master in Applied Biological Sciences	Osaka Pref. University 1999
	Bachelor in Agronomy	University of Jember 1995
Employment	<i>Staff</i>	<i>University of Jember</i> 1998
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Production of antihypertensive artificial peptides through the expression of the Gg-AH3 gene in <i>E. coli</i> as an effort to develop protein-based commercial nutraceutical ingredients (2016-2019) 2. Overexpression of Heptapeptide (Gg-7pAH) Specific Antihypertension in Rice Endosperm (<i>Oryza Sativa</i>) As An Effort to Provide Stainless Food For Hypertension Patients (2019-2020) 3. Stability of Overexpression of Specific Antihypertensive Peptide Gg-7pAH Gene in Endosperm of Transformant Rice (<i>Oryza sativa</i>) Plants: Efforts to Provide Staple Food for Patients with Hypertension (2021-2023) 	
Industry collaborations over the last 5 years	Metabolite Profiling to Determine Biomarkers and Validation of The Spicy Measurement Method of Ting Ting Jahe Products at PT Sin A SixFifteen: Location Variation, Age Variation and Raw Material Grade Partners: PT Sin A SixFifteen	
Patents and proprietary rights	Antioxidant Protein Extract from Melinjo (<i>Gnetum gnemon</i>) Seeds As Nutraceutical Food Supplement	Year 2019
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Laras S A, Anang S, Erni N, Wahyu I D F and T A Siswoyo (2018) Drought Stress Induced the Expression Level of Ascorbate Peroxidase in the Late Seedlings of Melinjo (<i>Gnetum gnemon</i>). <i>International Journal of Agriculture and Biology</i> 20(6), pp. 1303-1308. 2. Sanjaya, B.R.L., Avivi, S., Siswoyo, T.A., Tanziman, A.M., Ogita, S.(2019) Application of fluorescent and UV-vis detection methods to profile antimicrobial activity of cassava tissues for an efficient agrobacterium-mediated transformation <i>Plant Biotechnology</i>. 36(1), pp. 57-61 3. Wicaksono, Y., Setyawan, D., Siswandono, Siswoyo, T.A. (2019) Preparation and characterization of a novel cocrystal of atorvastatin calcium with succinic acid coformer <i>Indonesian Journal of Chemistry</i> 19(3), pp. 660-667 4. Supriyadi, A., Arum, L.S., Nugraha, A.S., Ratnadewi, A.A.I., Siswoyo, T.A. (2019) Revealing antioxidant and antidiabetic potency of melinjo (<i>Gnetum gnemon</i>) seed protein hydrolysate at different stages of seed maturation <i>Current Research in Nutrition and Food Science</i>. 7(2), pp. 479-487 5. Ratnadewi, A.A.I., Wahyudi, L.D., Rochman, J., Susilowati, , Nugraha, A.S., Siswoyo, T.A. (2020) Revealing anti-diabetic potency of medicinal 	

	<p>plants of Meru Betiri National Park, Jember – Indonesia. Arabian Journal of Chemistry. 13(1), pp. 1831-1836</p> <p>6. Ratnadewi, A.A.I., Amaliyah Zain, M.H., Nara Kusuma, A.A.N., Nugraha, A.S., Siswoyo, T.A. (2020) Lactobacillus casei fermentation towards xylooligosaccharide (XOS) obtained from coffee peel enzymatic hydrolysate. Biocatalysis and Agricultural Biotechnology, 23,101446</p> <p>7. Erni Noviyanti, Anang Supriyadi, Laras SekarArum, Rida R. Akbar, Tri Agus Siswoyo (2020) Effect of Germination on Free Radical Scavenging Activities And Angiotensin I-Converting Enzyme Inhibitory Of Melinjo (Gnetum gnemon L) Seed Proteins. Journal of Microbiology, Biotechnology and Food Science. 9(4) 809-812.</p> <p>8. Siswoyo, T.A., Arum, L.S., Sanjaya, B.R.L., Aisyah, Z.S.(2021) The growth responses and antioxidant capabilities of melinjo (Gnetum gnemon L.) in different durations of drought stress. Annals of Agricultural Sciences, 2021, 66(1), pp. 81–86</p> <p>9. Nugraha, A.S., Anggita, I.D., Ratnadewi, A.A.I., ...Hendra, R., Keller, P.A. (2021) Phytochemical and pharmacological evaluation of a medicinal plant of Indonesian tengger ethnic group. Rasayan Journal of Chemistry, 2021, 14(4), pp. 2516–2520.</p> <p>10. Susilowati, E., Sanjaya, B.R.L., Nugraha, A.S., Ubaidillah, M., Siswoyo, T.A. (2022) Revealing of free radical scavenging and angiotensin I-converting enzyme inhibitor potency of pigmented rice seed protein. Food Science and Technology (Brazil), 2022, 42, e66520</p>		
Activities in specialist bodies over the last 5 years	<p style="text-align: center;">Organisation</p> <ol style="list-style-type: none"> 1. Indonesian Association of Biochemistry and Molecular Biology (PBBMI) 2. Indonesia Protein Society 3. Asia Oceania Human Proteome Organization (AOHUPO) 4. Indonesian Biotechnology Study Program Association 	<p style="text-align: center;">Role</p> <p>Branch head</p> <p>President</p> <p>Council member</p> <p>Committee member</p>	<p style="text-align: center;">Period</p> <p>2009- present</p> <p>2014- present</p> <p>2018 -present</p> <p>2019-2022</p>



Name	Prof. Wiwiek Sri Wahyuni, Ph.D.		
Post	Professor		
Academic career	Lecturer at	Fac. Agriculture University of Jember	1980-present
	Doctor at	Fac. Natural and Agric. Scie. Adelaide University	1993
	Master (S2)	Fac. Pasca Sarjana University of Gadjah Mada	1984
	Master	Agric. Fac. University of Gadjah Mada	1979
	Bachelor	Agric. Fac. University of Gadjah Mada	1975
Employment	Teaching Staff	Fac. Agric. University of Jember	1980-present
	Researcher Staff	Plant Protection University of Jember	1980-present
Research and development projects over the last 5 years	<p>2019. Genetic variety phyllosfer indigenous as potential biological agent to control bacteria pustules disease on soybean. BOPTN Unej. (Rp 30.000.000)</p> <p>2019. Control strategy of powdery mildew disease on maize with good agricultural practices (GAP). Keris I Penyakit Tumbuhan. BOPTN Unej. (Rp 30.000.000)</p> <p>2020. Control of moler disease on shalot with biomanci solution. Keris I Penyakit Tumbuhan. BOPTN Unej. (Rp 26.000.000)</p> <p>2020-2021. The role of phyllosfer and rhizosfer bacteria consorsium as a probiotic agent to increasre shalot production and to improve the of pathogen presure. Keris BeM. BOPTN Unej. (Rp 25.000.000)</p> <p>2021-2022.</p>		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	<p style="text-align: center;">Title</p> <p>Patent. W.S. Wahyuni . 2017. Metode pembuatan biofertilizer dan biopestisida cair asal sampah sayur melalui pengomposan semiaerobik. Depkumham November 201, Certicate</p>		<p style="text-align: center;">Year</p> <p>2017</p>
Important publications over the last 5 years	<p>6 publications</p> <ol style="list-style-type: none"> 1. Wahyuni W.S. and J.B.A. Sayekti. 2020. The failure farmers in Panti district to control tungro disease which endemic in 2014-2019. J. Phys.: Conf. Ser. 1563 012026. https://doi.org/10.1088/1742-6596/1563/1/012026 2. Wahyuni, WS. 2020. Antigenic properties of fixed and unfixed particles of some cucumber mosaic virus strains. The 3rd International Conference on Agricultural 		

and Life Sciences (ICALS 2019). Jember, Indonesia, July 31-August 2, 2019. Published online: 21 January 2020. Volume 142. M. Rondhi and H.S. Addy (Eds.) DOI: <https://doi.org/10.1051/e3sconf/202014204003>.

3. Nurcahyani, SD, WS Wahyuni dan R. Masnillah. 2020. The role of phyllosfer bacteria as biocontrol agent of *Xanthomonas axonopodis* pv. *glycines* and growth induction of soybean. *Agritop* 18(2), 124-136.
4. Saputri EKP., D.Amalia, and WS. Wahyuni. 2021. *Streptomyces* sp. has different effectify to control two different pathogens. ICALS 2020. IOP Conf. Series: Earth and Environmental Science 759 (2021), 012040. IOP Publishing doi:10.1088/1755-1315/759/1/012040.
5. Nurcahyanti, D.N., W.S. Wahyuni, R. Masnillah, AAH Nurdika. 2021. Biodiversity of *Bacillus* spp. from soybean phylosphre as potensial antagonist agents for *Xanthomonas axonopodis* pv. *glycines* causal pustule disease. *Biodiversity* 22(11), 503-511.
6. Rizqon, AR. WS. Wahyuni. 2021. Dipping seedling's rice root with indigenous microorganisms from mimosa invisa to control blast disease and increased rice production in Purwoasri Village, Jember. *JPTI* 25: (2) 127–132. <https://doi.org/10.22146/jpti.68379> (terbit 4 April 2022)
- 7.

Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	Indonesia Phytopathological Society (IPS)	Member	1975-present



Name	Jayus, Ph.D		
Post	Associate Professor		
Academic career	<i>Lecturer</i>	<i>University of Jember</i>	<i>2002-present</i>
	<i>Doctor in Microbiology</i>	<i>La Trobe University</i>	<i>2008</i>
	<i>Master in</i>		
	<i>Bachelor in Agricultural Product Technology</i>	<i>University of Jember</i>	<i>1991</i>
Employment	<i>Academic Staff</i>	<i>University of Jember</i>	<i>1992</i>
Research and development projects over the last 5 years	<i>Name of project or research focus: Development of functional food and beverages using edamame soybean as raw material and lactic acid bacteria as its starter culture</i> <i>Period and any other information: 2017-2021</i> <i>Partners, if applicable</i> <i>Amount of financing</i>		
Industry collaborations over the last 5 years	<i>Project title Development of food and beverages derived from Edamame Soybean</i> <i>Partners PT Mitra Tani</i>		
Patents and proprietary rights	<i>PRODUCTION OF DRY REBON SHRIMP (Mysis, Sp.) PEPTONE AS A NITROGEN SOURCE OF LACTIC ACID BACTERIA (LAB)</i> <i>(Patent number: IDP000079380)</i>	<i>Year</i>	<i>2021</i>
Important publications over the last 5 years	7 Publicaitons 1. Siti Lutfiah Anggraeni, Jay Jayus, Anak Agung Istri Ratnadewi, Nurhayati Nurhayati. . Edamame Protein Hydrolysis Using <i>Lactococcus lactis</i> , <i>Lactobacillus bulgaricus</i> and <i>L. paracasei</i> Produce Short Peptides with Higher Antioxidant Potential. Biodiversitas Journal of Biological Diversity, Indonesia, 2022. Vol. 23 (7): 3603-3612. 2. Jay Jayus, Robby Akroman, Nurhayati, Ari Satia Nugraha, Bambang Piluharto, Robert James Seviour. Structural elucidation of the exopolysaccharide produced by <i>Curvularia lunata</i> isolate RJ01. BIODIVERSITAS JOURNAL OF BIOLOGICAL DIVERSITY. 2021. Volume 22, Number 5, May 2021 3. Pages: 2699-2705 DOI: 10.13057/biodiv/d220530 4. Novila Santi Lovabyta, Jay Jayus, Ari Satia Nugraha. Bioconversion of isoflavones glycoside to aglycone during edamame (<i>Glycine max</i>) soygurt production using <i>Streptococcus thermophilus</i> FNCC40, <i>Lactobacillus delbrueckii</i> FNCC41, and <i>L. plantarum</i> FNCC26. BIODIVERSITAS JOURNAL OF BIOLOGICAL DIVERSITY. 2020. Volume 21, Number 4, April 2020. Pages: 1358-1364. 5. Robby Akroman, Nurhayati Nurhayati, Sony Suwasono, Jay Jayus. Phenotypic and genotypic characteristics of exopolysaccharide-producing fungi as a		

	<p>source of food additives. BIODIVERSITAS JOURNAL OF BIOLOGICAL DIVERSITY. Indonesia. Volume 20, Number 9, September 2019. Pages: 2468-2474.</p> <p>6. Kiky Chily Arum Dalu, Nurhayati Nurhayati, Jay Jayus. In Vitro Modulation of Fecal Microflora Growth Using Fermented "Pisang Mas" Banana and Red Guava Juices. Current Research in Nutrition and Food Science. India. 2019. Vol. 07, No. (2)</p> <p>7. Jay Jayus, Dani Setiawan and Cipto Giyarto. Influence of Lactobacillus plantarum Fermentation on Functional Properties of Flour from Jackfruit (Artocarpus heterophyllus Lamk.) Seeds. Pertanika Journal Tropical Agricultural Science, Malaysia, 2018. 41 (3): 1401 - 1411 (2018)</p>		
<p>Activities in specialist bodies over the last 5 years</p>	<p>Organisation <i>Indonesian Food Technologist Association</i></p>	<p>Role <i>Board member</i></p>	<p>Period <i>2018-2022</i></p>



Name	Ari Satia Nugraha, Ph.D		
Post	Associate Professor		
Academic career	Lecturer	University of Jember	2005
	Doctor in Medicinal Chemistry	University of Wollongong	2015
	Master in Medicinal Chemistry	University of Wollongong	2009
	Bachelor in Pharmacy	Gadjah Mada University	2002
Employment	<i>Academic Staff</i>	<i>University of Jember</i>	2005
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Searching for new anti-infective agents since 2008, in collaboration with University of Wollongong, Leibniz Institute of Plan Biochemistry, funded by Indonesian, Australian and German Government entities 2. Searching for new anti-cancer agents since 2008, in collaboration with University of Wollongong, Leibniz Institute of Plan Biochemistry, funded by Indonesian, Australian and German Government entities 		
Industry collaborations over the last 5 years			
Patents and proprietary rights			
Important publications over the last 5 years	<p>About 34 Publications</p> <p>Ari Satia Nugraha, Ikhar Ridho Dayli, Chintya Permata Zahky Sukrisno Putri, Lilla Nur Firli, Antonius Nugraha Widhi Pratama, Bawon Triatmoko, Ludmilla Fitri Untari, Hendris Wongso, Paul A Keller, Phurpa Wangchuk. 2022. Isolation of Antibacterial Depside Constituents from Indonesian Folious Lichen, <i>Candelaria fibrosa</i>. <i>Journal of Biologically Active Products from Nature</i>. 12(1): 24-32.</p> <p>Ari S Nugraha, Yoshinta D Purnomo, Antonius N Widhi Pratama, Bawon Triatmoko, Rudi Hendra, Hendris Wongso, Vicky M Avery, Paul A Keller. 2022. Isolation of Antimalarial Agents From Indonesian Medicinal Plants: <i>Swietenia mahagoni</i> and <i>Pluchea indica</i>. <i>Natural Product Communications</i>. 17(1): 1-5</p> <p>AS Nugraha, LF Untari, A Laub, A Porzel, K Franke, LA Wessjohann. 2021. Anthelmintic and antimicrobial activities of three new depsides and ten known depsides and phenols from Indonesian lichen: <i>Parmelia cetrata</i> Ach. <i>Natural Product Research</i>. 35 (23):5001-5010</p> <p>AS Nugraha, R Haritakun, JM Lambert, CT Dillon, PA Keller. 2021. Alkaloids from the root of Indonesian <i>Annona muricata</i> L. <i>Natural Product Research</i> 35 (3), 481-489</p> <p>Phurpa Wangchuk, Karma Yeshe, Cecile Vennos, Subhash C Mandal, Stephan Kloos, Ari S Nugraha. 2020. Three medicinal <i>Corydalis</i> species of the Himalayas: their ethnobotany, pharmacognosy,</p>		

	<p>phytochemistry and pharmacology. Journal of Herbal Medicine. 23:1000384</p> <p>Ari Satia Nugraha, Tinton Agung Laksono, Lilla Nur Firli, Chintya Permata Zahky Sukrisno Putri, Dwi Koko Pratoko, Zulfikar Zulfikar, Ludmilla Fitri Untari, Hendris Wongso, Jacob M Lambert, Carolyn T Dillon, Paul A Keller. 2020. Anti-cancer Evaluation of Depsides Isolated from Indonesian Folious Lichens: Phycia millegrana, Parmelia dilatata and Parmelia aurulenta. Biomolecules. 10(10):1420.</p> <p>Ari Satia Nugraha, Agka Enggar Niken Permatasari, Carina Puspita Kadarwenny, Dwi Koko Pratoko, Bawon Triatmoko, Viddy Agustian Rosyidi, Ika Norcahyanti, Ika Puspita Dewi, Dewi Dianasari, Indah Purnama Sary, Phurpa Wangchuk. 2020. Phytochemical screening and the antimicrobial and antioxidant activities of medicinal plants of Meru Betiri National park–Indonesia. Journal of Herbs, Spices & Medicinal Plants. 16(3):303-314.</p> <p>Ari Satia Nugraha, Bawon Triatmoko, Phurpa Wangchuk, Paul A Keller. 2020. Vascular epiphytic medicinal plants as sources of therapeutic agents: Their ethnopharmacological uses, chemical composition, and biological activities. Biomolecules. 10(2):181.</p> <p>Anak Agung Istri Ratnadewi, Lilik Duwi Wahyudi, Jainur Rochman, Ari Satia Nugraha, Tri Agus Siswoyo. 2020. Revealing anti-diabetic potency of medicinal plants of Meru Betiri National Park, Jember–Indonesia. Arabian Journal of Chemistry. 13(1): 1831-1836</p> <p>Ari Satia Nugraha, Yuvita Dian Damayanti, Phurpa Wangchuk, Paul A Keller. 2019. Anti-Infective and Anti-Cancer Properties of the Annona Species: Their Ethnomedicinal Uses, Alkaloid Diversity, and Pharmacological Activities. Molecules. 24(23):4419.</p>		
Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	Indonesian Protein Society	Member	2017 - Now
	DAAD Alumni	Member	2018-Now
	RACI	Member	2015-Now



Name	Banun Kusumawardani, Ph.D		
Post	Associate Professor		
Academic career	Lecturer	University of Jember	1999
	Doctor in Medical Science	Gadjah Mada University	2012
	Master in Oral Biology	Gadjah Mada University	2004
	Bachelor in Dentistry	University of Airlangga	1995
Employment	<i>Academic Staff</i>	<i>University of Jember</i>	1999
Research and development projects over the last 5 years	Isolation and expansion of gingival stem cells for the development of regenerative dentistry. Since 2017 and funded by the University of Jember		
Industry collaborations over the last 5 years	----		
Patents and proprietary rights	---		---
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Banun Kusumawardani, Dwi Merry Christmarini Robin, Endah Puspitasari, Irma Josefina Savitri, Dea Ajeng Pravita Suendi. 2021. Dental Journal. 54(1): 39–45 2. Banun Kusumawardani, Intan Julita Purnamasari, Dea Ajeng Pravita Suendi. 2021. Determination of Total Protein and Calcium in Gingival Mesenchymal Stem Cell-Conditioned Medium. Insisiva Dental Journal. 10(2):65-70 3. Dea Ajeng Pravita Suendi¹, Banun Kusumawardani. 2022. Proliferative Capacities and Differentiation Potentials of Human Periodontal Ligament Stem Cells after Slow-freezing Cryopreservation. Mal J Med Health Sci. 18(3):125-32 		
Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	Indonesian Society for Cancer Chemoprevention	Member	2017 – Now
	Indonesian Dentist Association	Member	1995 - Now



Name	Didik Pudji Restanto, Ph.D		
Post	Associate Professor		
Academic career	<i>Lecturer</i>	<i>Universitas Jember</i>	<i>1994-present</i>
	<i>Doctor in</i>	<i>James Cook University Townsville Australia</i>	<i>2003</i>
	<i>Master in</i>	<i>Bogor University (IPB)</i>	<i>1991</i>
	<i>Bachelor in</i>	<i>UPN Veteran Surabaya</i>	<i>1988</i>
Employment	<i>Teaching Staff</i>	<i>Universitas Jember</i>	<i>1994-present</i>
	<i>Researcher Staff</i>	<i>Centre for Development of Advanced Science and Technology (CDAST) Universitas Jember and Plant Tissue Culture in Faculty of Agriculture University of Jember</i>	<i>1994-present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <i>Clonal micro propagation of Orchid by using bioreactor (2022; Rp. 71.000.000)</i> <i>Suspension culture and regeneration of porang (Amorphophalus meulleri) (2022; 62.000.000)</i> <i>DNA transformation of Cassava using SoSPS1 gene from Sugarcane (2021; Rp. 71.000.000)</i> 		
Industry collaborations over the last 5 years	<i>Clonal micro propagation of Indonesian Orchid using bioreactor in DD Orchid Nursery Kota Batu Malang East Java</i> <i>DD ORCHID NURSERY</i>		
Patents and proprietary rights	Title	Year	
Important publications over the last 5 years	6 publications <ol style="list-style-type: none"> <i>Wulan Nursyiam Ningtiyas, Bambang Sugiharto and Didik Pudji Restanto (2022). Improvement of Micropropagation through Combination of Plant Growth Regulators in Indonesian Sorghum Hybrid Cultivar. Intl J Agric Biol Vol 27, No. 5, DOI: 10.17957/IJAB/15.1930, 301–307p.</i> <i>Tri Handoyo, Laily Ilman Widuri, Didik Pudji Restanto (2021), DIFFERENT NITRATE AND AMMONIUM LEVELS MEDIA ON CHANGES OF NITROGEN ASSIMILATION ENZYMES IN RICE BIOVALENTIA: Biological Research Journal, vol 7 (1), 25-31p.</i> <i>Innani Mukarromatus Sholehah, Didik Pudji Restanto Kyung-Min Kim Tri Handoyo Diversity, Physicochemical, and Structural Properties of Indonesian Aromatic Rice Cultivars Journal of Crop Science and Biotechnology DOI: 10.1007/s12892-019-0370-0, Vol 23(2) 171-180p</i> <i>Sholeh Avivi, Suliswanto, Didik Pudji Restanto, Miswar, Anang Syamsunihar, 2019. Morphological Diversity and Molecular RAPD Markers of Sugarcane</i> 		

Mutane (Saccharum officinarum L.) in Inundation Tolerance AGRIVITA, Journal of Agricultural Science 41 (2), 221-229

5. *Firdha Narulita Alfian, Nur Nafisatul Afdhoria, Parawita Dewanti, **Didik Pudji Restanto**, Bambang Sugiharto (2019). Liquid culture of somatic embryogenesis cell proliferation of sugarcane (Saccharum officinarum). Vol 21 (4), 905-910p.*
6. *Kunti Anis Azizah, **Didik Pudji Restanto**, Bambang Sugiharto (2017). Enhancement of regeneration efficiency through callus induction media using 2, 4-dichlorophenoxyacetic acid in indica rice (Oryza sativa L. var. Ciherang) Jurnal Ilmu Dasar vol 18 (2). 91-98p.*

Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	Indonesia Protein Society (IPS)	Member	2014-present
	Indonesian Society for Biochemistry and Molecular Biology (PBBMI)	Member	2017-present
	PERHORTI	Member	2021-present



Name	Erelia Narulita, Ph.D		
Post	Associate Professor		
Academic career	Academic appointment	Institution	Year
	Doctorate (Doctor in Molecular Biotechnology)	Hiroshima University, Germany	2016
	Graduate degree (Master in Biotechnology)	Universitas Teknologi Bandung, Indonesia	2011
	Undergraduate degree and Medical Doctor (Bachelor Biology Education)	Univeritas Jember	2002
Employment	Position	Employer	Period
	Teaching staff (lecturer)	Universitas Jember, Indonesia	2006-now
	Head of Biology in Education Programme	Universitas Jember, Indonesia	2021-now
	Research assistant	Graduate School of AdSM, Hiroshima University, Japan	2012-2014
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Production of Recombinant Protein Encoding Indonesian SARS-CoV-2 Spike Protein as a Model of Immunogen Preventing COVID-19 (2021-2022), Universitas Jember, 134 Mio IDR. 2. Genome Engineering Bacteriophage PT1b Infecting Escherichia coli Pathogenic Using the CRISPR-Cas9 System (2021-2022), Universitas Jember, 129.5 Mio IDR. 3. Encapsulation formulation of bacteriophage PT1b as oral treatment for Escherichia coli infection (2020-2022), Universitas Jember, 127.5 Mio IDR. 4. Study molecular of bacteriophage infecting ulcer diabetic pathogens in East Java (2020-2022), 100 Mio IDR. 5. Study molecular of bacteriophage infecting foodborne diseases pathogens in coastal area (2017-2020), Universitas Jember, 182 Mio IDR. 6. Genetic and Molecular Characteristics of Bacteriophages Infecting Xanthomonas oryzae Potentially in Controlling Bacterial Leaf Blight of Rice in Indonesia (2019-2020), Ministry of Education and Culture, 150 Mio IDR. 		
Industry collaborations over the last 5 years	-		
	Title	Year	
	1. Copyright for Game Gene Cards (No. EC00202139433)	2021	

<p>Patents and proprietary rights</p>	<p>2. <i>Flipchart Self-Development for Children with Special Needs</i> (No. EC00202115780)</p> <p>3. <i>Game APTA-Animal & Plant Taxonomy Adventure</i> (No. EC000186783)</p> <p>4. <i>Smartphone application: Augmented Reality of Circulatory System</i> (No. EC00202055808)</p> <p>5. <i>Smartphone application: Augmented Reality of Genetics Substance</i> (No. EC000155549)</p> <p>6. <i>Game BTH-Biotechnology Treasure Hunter</i> (No. EC000155621)</p>	<p>2021</p> <p>2020</p> <p>2020</p> <p>2019</p> <p>2019</p>
<p>Important publications over the last 5 years</p>	<p><i>Selected recent publications from a total of approx. 21 international journals and 18 national accredited journals</i></p> <p><i>Febrianti, R.A., and Narulita, E.*2022. In-silico Analysis Recombinant Protein Vaccines for Spike Protein Indonesian SARS-CoV-2 Using a Reverse Vaccinology Approach. Journal of Taibah University Medical Sciences, 17(3):467-478</i></p> <p><i>Risqiyah, W., Narulita, E.*, Rofiqoh, A., Ludfi, A.S., Iqbal, M. 2022. Morphological and molecular identification of multi-antibiotic resistant bacteria in the wound site of diabetic ulcers. Biodiversitas, 23(2), 663–670</i></p> <p><i>Fatmawati, Y., Sandrina, S. Aina, R.N., Narulita, E.* 2022. Molecular docking analysis of seagrass (<i>Enhalus acoroides</i>) phytochemical compounds as an antidiabetic. Journal of Biological Research, 95:10224.</i></p> <p><i>Rejeki, D., Addy, H.S., Narulita, E. 2021. Partial characterization of Bacteriophages from Indonesia and Its Potency as Biocontrol of <i>Xanthomonas oryzae</i> pv. <i>Oryzae</i>. International Journal of Agriculture and Biology, 25(1): 75-80.</i></p> <p>Narulita, E.*, Aji, G.P., Wahono, B., Murdiyah, S., Yulian, R. 2020. Synergism of Phage ϕPT1b and Antibiotics for Reducing Infection of <i>Escherichia coli</i>. <i>Biogenesis</i>, 18(1): 22-28.</p> <p><i>Iqbal, M., Narulita, E.*, Zahra, F., Murdiyah, S. 2020. Effect of Phage-Antibiotic Synergism (PAS) in increasing antibiotic inhibition of bacteria caused of foodborne diseases. The Journal of Infection in Developing Countries 14 (05), 488-493.</i></p> <p><i>Yulian, R., Narulita, E*., Iqbal, M., Sari, D.R., Suryaningsih, I., Ningrum, D.E. A. F. 2020. Detection of virulence and specific genes of <i>Salmonella</i> sp. indigenous from Jember, Indonesia. Biodiversitas, 21 (7):2289-2293.</i></p> <p>Narulita, E.*, Surachman, G., Iqbal, M. 2019. A Novel Antibacterial Agent of <i>Myrmeleon formicarius</i> Extract for Diabetic Ulcer Infection. <i>International Journal of Biodiversity and Biotechnology</i>, 3(2): 48-54.</p> <p><i>Rasmiyana, Addy, H.S., Narulita, E. 2019. Detection of Genes Resistant to Bacterial Leaf Blight in Rice Cultivars from Situbondo and Jember, Indonesia. Jurnal Hama dan Penyakit Tumbuhan Tropika, 19 (2):127-134</i></p> <p><i>Prihatin, J., Narulita, E*., Mufidah, L. Kurniawan, A., Wulandari, D., Hariyadi, S. 2019. Antihyperglycaemic and tissue-repair effects of <i>Myrmeleon formicarius</i> extract in streptozotocin-induced diabetic mice. Journal of Taibah University Medical Sciences, 14(2):149-155.</i></p> <p><i>Asyiah, I.N., Soekarto, S., Hoesain, M., Iqbal, M., Hindersah, R., Narulita, E., Mudakir, I. 2018. The Endophytic Bacteria Isolation as Biological Control Agent of <i>Pratylenus coffeae</i>. AJMBES, 20(1):159-165.</i></p>	

	Narulita, E.* , Sulistyorini, I., Aji, G.P., Iqbal, M., Murdiyah, S. 2018. <i>Isolation and Characterization of Bacteriophage in Controlling Escherichia coli in Jember Area, Indonesia. AJMBES, 20(2): 439-444.</i>		
Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	<i>Ministry of Education, Culture, Research and Higher Education</i>	<i>Detaser (expertise)</i>	2021 – now
	<i>Himpunan Pendidik dan Peneliti Biologi Indonesia (Society of Biology Educator and Researcher)</i>	<i>Member</i>	2017 – now
	<i>Society of Biotechnology Japan</i>	<i>Member</i>	2014 – 2018
	<i>International Society for Viruses of Microorganisms</i>	<i>Member</i>	2014 – now
	<i>Perhimpunan Biokimia dan Bioteknologi Indonesia (Society of Biochemistry and Biotechnology Indonesia)</i>	<i>Member</i>	2011 – now



Name	Erma Sulistyarningsih, Ph.D		
Post	Associate Professor		
Academic career	<i>Lecturer</i>	<i>Universitas Jember</i>	<i>2002-present</i>
	<i>Doctor in</i>	<i>Ludwig Maximilians University of Munich, Germany</i>	<i>2012</i>
	<i>Master in</i>	<i>Universitas Gadjahmada, Indonesia</i>	<i>2006</i>
	<i>Bachelor in</i>	<i>Univeritas Brawijaya, Indonesia</i>	<i>2002</i>
Employment	<i>Teaching Staff</i>	<i>Universitas Jember</i>	<i>2002-present</i>
	<i>Head of Parasitology Department</i>	<i>Faculty of Medicine University of Jember, Indonesia</i>	<i>1994-present</i> <i>2019-present</i>
	<i>Vice Dean for Finance and Human Resources</i>	<i>Faculty of Medicine University of Jember, Indonesia</i>	<i>2015-2019</i>
	<i>Medical Doctor</i>	<i>Emergency Department, Dr. Koesnadi Hospital, Indonesia</i>	<i>2001-2003</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. <i>Immunogenicity and toxicity test recombinant protein of CIDR-PfEMP1 as peptide-base malaria vaccine, 2021-2022, Ministry of Education and Culture, 411,660 Mio Rupiah.</i> 2. <i>Genetic mapping of var gen Plasmodium falciparum Indonesia isolate as malaria diagnosis prognosis marker, 2020, University of Jember, 31,5 Mio Rupiah.</i> 3. <i>Determination of var gene specific sequence of Plasmodium falciparum as malaria diagnostic marker and clinical prediction, 2021. University of Jember, 33 Mio Rupiah.</i> 4. <i>Determination of best dose response and safety pharmacology of DBL2b-PfEMP1 recombinant protein local isolate asmalraia vaccine candidate. 2021, University of Jember, 52,5 Mio Rupiah.</i> 5. <i>Humoral and cellular immune response of recombinant protein DBL-PfEMP1 as malaria vaccine candidate. Ministry of Research, Technology, and Higher Education, 37, 415 Mio Rupiah</i> 6. <i>Immunogenicity test of functional recombinant peptide of PfEMP1 Plasmodium faciparum local isolate. University of Jember, 30 Mio Rupiah.</i> 7. <i>Immunogenicity study of DBL2b domain-PfEMP1 of Plasmodium falciparum Indoenesian isolate as peptide-based malaria vaccine candidate. 2019. IsDB Research Grant. 93 Mio Rupiah</i> 8. <i>Character Optimalization and production of functional peptide of Plasmodium falciparum PfEMP1 local isolate. 2018. University of Jember. 30 Mio Rupiah.</i> 9. <i>Overexpression and immunogenicity study of CIDR1a domain of Plasmodium falciparum local isolate as peptide-based malaria vaccine candidate. 2018. IsDB Research Grant. 100 Mio Rupiah.</i> 		

	<p>10. <i>Construction of recombinant protein and immune response of CIDR1a domain PfEMP1 as peptide-base malaria vaccine candidate. 2017. IsDB Research Grant. 99 Mio Rupiah.</i></p> <p>11. <i>. Recombinant design and immunogenicity of DBL2b from PfEMP1 as malaria target therapy. 2017-2018. Ministry of Research, Technology, and Higher Education, 164,455 Mio Rupiah.</i></p>	
Industry collaborations over the last 5 years	<p><i>Clonal micro propagation of Indonesian Orchid using bioreactor in DD Orchid Nursery Kota Batu Malang East Java</i></p> <p>DD ORCHID NURSERY</p>	
Patents and proprietary rights	<p style="text-align: center;">Title</p> <p>Title: Copyright for Text book of Agromedicine (No. 000140194)</p> <p>Title: Copyright for Reference book of Malaria Vaccine (No. 000202207)</p>	<p style="text-align: center;">Year</p> <p>2019</p> <p>2020</p>
Important publications over the last 5 years	<p>12 publications</p> <ol style="list-style-type: none"> 1. <i>Rachmania S, Sulistyarningsih E, Dewi AAIR, Recombinant DBL2b-PfEMP1 of the Indonesia Plasmodium falciparum induces immune responses in wistar rats. Elsevier Ltd. Journal of Taibah University Medical Sciences. 2021, 16(3): 422-430.</i> 2. <i>Ilahi KK, Sulistyarningsih E, How is your cleaning behaviour? House dust mites and its relationship to allergic rhinitis. Al-sihah: Public Health Science Journal. 2021, 13(2): 140-149.</i> 3. <i>Setiadi WA, Sulistyarningsih E, Kusuma IF, Optimized expression condition of CIDRa-PfEMP1recombinant protein production in Escherichia coliBL21(DE3): A step to develop malaria vaccine candidate. Research Journal of Life Science. 2021. 8(1): 15-24.</i> 4. <i>Sulistyarningsih E, Armiyanti Y, Dewi R, The CIDR1a-PfEMP1 sequence from Indonesia Plasmodium falcipaum and its potential association with the cerebral outcome. Malang Neurology Journal. 2021, 5(1): 13-18.</i> 5. <i>Pawestri IN, Sulistyarningsih, E. Neurobehavioral performance of Indonesian farmers and its association with pesticide exposure: A cross-sectional study. Elsevier B.V. Clinical Epidemiology and Global Health. 2021.11: 100754.</i> 6. <i>Rachmania S, Sulistyarningsih E, Dewi AAIR E, Dewi R, Epitopes prediction of PfEMP1-DBL2b recombinant protein from Indonesia Plasmodium falciparum isolate for malaria vaccine development. All-India Institute of Medical Sciences, Medico Legal Update. 2020, 20(4): 2341-2349.</i> 7. <i>Hasanah FH, Sulistyarningsih E, Sawitri WD. The expression of PfEMP1-DBL2b recombinant protein of Plasmodium falciparum isolated from Indonesia. Jurnal Ilmu Dasar. 2020. 21(1): 67-72</i> 8. <i>Sulistyarningsih E, Hidayah F, Prasetyo A, Cloning and Protein structure prediction of DBL2b-PfEMP1 recombinant protein from Indonesia Plasmodium falciparum isolate, Research Trends (P) Ltd.. Current Topics in Peptide and Protein Research, 2018, 19: 75-79.</i> 9. <i>Dewi R, Sulistyarningsih E, Cloning, sequence analysis and expression of CIDR1a-PfEMp1from Indonesian Plasmodium falciparum. Research Trends (P) Ltd.. Current Topics in Peptide and Protein Research, 2018, 19: 95-104.</i> 10. <i>Sulistyarningsih E, Romadhon BD., Palupi I, Hidayah F, Dewi R, Prasetyo A. Sequence analysis of DBL2b domain of var gene of Indonesia</i> 	

Plasmodium falciparum. IOP Conference Series: Earth and Environmental Science. 2018. 125(1): 012015.

11. 11. Sulistyaningsih E, Amalia TY, Kartikasari R, Antioxidant and antimalarial activity of *Leea indica* leaf extract against malaria-mice model. Open Science Publisher. Journal of applied pharmaceutical science. 2017, 7(12): 163-168.

12. 12. Hermansyah B, Fitri, LE, Sardjono TW, Endharti AT, rifin S, Budiarti N, Candradikusuma D, Sulistyaningsih E, Berens-Riha N, Clinical features of severe malaria: Protective effect of mixed plasmodial malaria. Elsevier BV. Asian Pacific Journal of Tropical Biomedicine. 2017, 7(1): 4-9.

Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	The Indoensian Society for Biochemistry and Molecular Biology (IDI)	Member	2013-present
	Indonesian Parasitic Control Association (P4I)	Member	2015-present
	Agrisafe	Member	2021-present



Name	Anak Agung Istri Ratnadewi, Ph.D	
Post	Associate Professor	
Academic career	<i>Lecturer</i> <i>Doctor in</i> <i>Master in</i> <i>Bachelor in</i>	<i>University of Jember</i> <i>Universitas</i> <i>Airlangga</i> <i>ITB</i> <i>Universitas</i> <i>Airlangga</i>
Employment	<i>Staff</i>	<i>University of Jember 1997</i>
Research and development projects over the last 5 years	<i>Name of project or research focus; Application enzim endoxylanase dan product prebiotik XOS</i> <i>Period and any other information :2020 -2022</i> <i>Partners, if applicable ; universitas arlangga</i> <i>Amount of financing ; Rp.250.000.000</i>	
Industry collaborations over the last 5 years	<i>Project title</i> <i>Partners</i>	
Patents and proprietary rights	ENZIM β -1,4-D ENDOXILANASE ASAL <i>Bacillus sp.</i> DALAM ABDOMINAL RAYAP TANAH SEBAGAI PENGHASIL PREBIOTIK XILOOLIGOSAKARIDA	2021
Important publications over the last 5 years	<ol style="list-style-type: none"> <i>1. Phytochemical and pharmacological evaluation of a medicinal plant of indonesian tengger ethnic group.</i> <i>2. Nugraha, A.S., Anggita, I.D., Ratnadewi, A.A.I., ...Hendra, R., Keller, P.A. Rasayan Journal of Chemistrythis link is disabled, 2021, 14(4), pp. 2516–2520</i> <i>3. Recombinant DBL28-PfEMP1 of the Indonesian Plasmodium falciparum induces immune responses in Wistar rats Rachmania, S., Sulistyaningsih, E., Ratna Dewi, A.A.I. Journal of Taibah University Medical Sciencesthis link is disabled, 2021, 16(3), pp. 422–430</i> <i>4. Cloning, purification, and characterization of recombinant endo- β-1,4-D-xylanase of Bacillus sp. From soil termite abdomen Safitri, E., Hanifah, Previta, ...Tri Puspaningsih, N.N., Istri Ratnadewi, A.A. Biocatalysis and Agricultural Biotechnologythis link is disabled, 2021, 31, 101877</i> <i>5. Lactobacillus casei fermentation towards xylooligosaccharide (XOS) obtained from coffee peel enzymatic hydrolysate Ratnadewi, A.A.I., Amaliyah Zain, M.H., Nara Kusuma, A.A.N., ...Nugraha, A.S., Siswoyo, T.A. Biocatalysis and Agricultural Biotechnologythis link is disabled, 2020, 23, 101446</i> <i>6. Revealing anti-diabetic potency of medicinal plants of Meru Betiri National Park, Jember – Indonesia Ratnadewi, A.A.I., Wahyudi, L.D., Rochman, J., ...Nugraha, A.S., Siswoyo, T.A.Arabian Journal of Chemistrythis link is disabled, 2020, 13(1), pp. 1831–1836</i> 	

	<p>7. <i>Revealing antioxidant and antidiabetic potency of melinjo (Gnetum gnemon) seed protein hydrolysate at different stages of seed maturation</i> Supriyadi, A., Arum, L.S., Nugraha, A.S., Ratnadewi, A.A.I., Siswoyo, T.A. <i>Current Research in Nutrition and Food Science</i> this link is disabled, 2019, 7(2), pp. 479–487</p> <p>8. <i>Application of coffee peel waste as raw material for xylooligosaccharide production</i> Ratnadewi, A.A.I., Masruroh, H., Suwardiyanto, Santoso, A.B. <i>Coffee Science</i> this link is disabled, 2019, 14(4), pp. 446–454</p> <p>9. <i>Prebiotic potential of xylooligosaccharides derived from cassava dregs in Balb/c mice colon</i> Harfilia Hafidah, A., Sulistyaningsih, E., Handayani, W., Ratnadewi, A.A.I. <i>Pertanika Journal of Tropical Agricultural Science</i> this link is disabled, 2018, 41(3), pp. 1021–1031</p> <p>10. <i>Cloning, sequence analysis, and expression of CIDR1α-pfEMP1 from Indonesian plasmodium falciparum isolate</i> Dewi, R., Ratnadewi, A.A.I., Sawitri, W.D., Rachmania, S., Sulistyaningsih, E. <i>Current Topics in Peptide and Protein Research</i> this link is disabled, 2018, 19, pp. 95–104</p>		
Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	Indonesian Association of Biochemistry and Molecular Biology	<i>Secretary</i>	<i>2019-present</i>
	Indonesian Chemist Association	<i>Member</i>	<i>2015-present</i>



Name	Kartika Senjarini, Ph.D		
Post	Associate Professor		
Academic career	Academic appointment	Institution	Year
	Post-Doctoral (Molecular Process on Vaccine Development)	International Vaccine Institute, South Korea	2011
	Post-Doctoral (Molecular Genetics)	Universitaet Kassel, Germany	2010
	Doctorate (Doctor in Molecular Microbiology)	Universitaet Rostock, Germany	2007
	Graduate degree (Master in Biology – Molecular Genetics)	Institut Teknologi Bandung, Indonesia	2001
	Undergraduate degree (Bachelor in Biology)	Univeritas Brawijaya, Indonesia	1998
Employment	Position	Employer	Period
	Lecturer & Researcher	Universitas Jember, Indonesia	2000-present
	Head of Biology Department – Faculty of Mathematics & Natural Sciences	Universitas Jember, Indonesia	2003-2007
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Global Health Centre for PAN ASEAN Coalition for Epidemic and OUtbreak Preparedness (PACE-UP) (2021-2025), German Academic Exchange Services (DAAD), 2,8 Mio €. 2. "Sustainable International Teaching and Research in Bioengineering and Biotechnology" (2019-2022), German Academic Exchange Services (DAAD), 198.000 €. 3. Molecular epidemiology-based surveillance for Dengue & Malaria vectors (2019-2022), Universitas Jember (2019-2022), 352.3 Mio IDR. 4. Bacteria associated with Dengue & Malaria vectors as a novel target to control pathogen transmission (2021-2022), Universitas Jember, 100 Mio IDR. 5. Molecular characterization of immunogenic proteins from salivary glands of mosquito vectors as a novel target for developing a transmission-blocking vaccine against Dengue & Malaria (2018-2022), Ristek DIKTI & Universitas Jember, 432 Mio IDR. 		
Industry collaborations over the last 5 years	-		
Patents and proprietary rights	Title	Year	
	1. <i>ITS2 sequences of Aedes albopictus</i> GenBank Acc. Nr. ON652375 (No. EC00202235336)	2022	

	2. <i>ITS2 sequences of Aedes aegypti GenBank Acc. Nr. ON652374 (No. EC00202235332)</i>	2022
	3. <i>ITS2 sequences of Anopheles aconitus GenBank Acc. Nr. OM974187 (No. EC00202234982)</i>	2022
	4. <i>ITS2 sequences of Anopheles vagus GenBank Acc. Nr. OM974188 (No. EC00202234918)</i>	2022
	5. <i>Patent Granted IDP000075116 : Protein extract from salivary gland of Anopheles aconitus, Anopheles maculatus, Anopheles sundaicus as novel target for the development of Transmission-Blocking Vaccine against Malaria</i>	2021
	6. <i>Anopheles sundaicus isolate snbs1 5.8S ribosomal RNA gene (internal transcribed spacer 2, ITS2) dan 28S ribosomal RNA (No. EC00202121706)</i>	2021
	7. <i>Anopheles subpictus isolate sbbs1 5.8S ribosomal RNA gene (internal transcribed spacer 2, ITS2) dan 28S ribosomal RNA (No. EC00202121960)</i>	2021
	8. <i>Anopheles vagus limosus isolate Lmbs 1 5.8 S Ribosom RNA gene (Internal Transcribed Spacer 2 ITS2) (No. EC00202060833)</i>	2020
	9. <i>Anopheles vagus vagus isolate Vgbs 1 5.8 S Ribosom RNA gene (Internal Transcribed Spacer 2 ITS2) (No. EC00202060824)</i>	2020
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. 21 international journals and 18 national accredited journals</i></p> <ol style="list-style-type: none"> 1. Hasanah, L. N. U., Masruroh, D., Wahyuni, I., Oktarianti, R., Wathon, S., Labes, A., Sulistyarningsih, E. & Senjarini K., 2022. Internal transcribed spacer 2 (ITS2) based molecular identification of malaria vectors from Bangsring Banyuwangi-Indonesia. <i>AsPac J. Mol. Biol. Biotechnol.</i> 30 (3) : 57-68 2. Senjarini K, BPD Erlambang, NPC Ardyah, D Astikaningrum, R Oktarianti, Syubbanul Wathon. 2022. USING sma-its2 PRIMER FOR ITS2 (Internal Transcribed Spacer-2)-BASED MOLECULAR CHARACTERIZATION OF <i>Anopheles minimus</i> FROM KULONPROGO, YOGYAKARTA-INDONESIA. <i>Bioedukasi</i> 20 (1): 48-55 3. Senjarini K., Muhammad Khalid Abdullah, Nuril Azizah, Miatin Alvin Septianasari, Ahmad Tosin, Rike Oktarianti, Syubbanul Wathon, Tri Yudani Mardining Raras. 2021. "Redesigning Primer of ITS2 (Internal Transcribed Spacer 2) for Specific Molecular Characterization of Malaria Vectors <i>Anopheles</i> Species." <i>Medical Archives</i> 75(6): 418. 4. Senjarini, K., Hasanah, L. N. U., Septianasari, M. A., Abdullah, M. K., Oktarianti, R., & Wathon, S. 2021. "ITS2 Based Molecular Characterization of sub-species complex of <i>Anopheles vagus vagus</i> and <i>Anopheles vagus limosus</i>." <i>Jurnal Bioteknologi & Biosains Indonesia (JBBI)</i> 8(2): 174–84. 5. Senjarini, K, R Setiawan, S Wathon, and R Oktarianti. 2021. "Species Shifting Composition of the <i>Anopheles</i> Vector in Wongsorejo District-Banyuwangi, Indonesia." In <i>IOP Conference Series: Earth and Environmental Science</i>, IOP Publishing, 12095. 6. Senjarini K, S Wathon, DE Febriyantarningsih, C Lenz, R Oktarianti. 2021. "Molecular Characterization of Secreted Proteins from Salivary Gland Immunogenic Protein of <i>Anopheles vagus</i>." In <i>IOP Conference Series: Earth and Environmental Science</i>, IOP Publishing, 12055. 7. Azkiyah SF, K Senjarini, R Oktarianti, HT Wiyono, S Wathon. 2021. "The Diversity of Potential Malaria and Dengue Mosquito Vector from Bangsring Village Wongsorejo District Banyuwangi East Java." <i>Jurnal ILMU DASAR.</i> 22 (1), 59-68 8. Agustin DP, Berlian Permata Dewi Erlambang, Cizein Tri Cahyanti, Syubbanul Wathon, Rike Oktarianti, Kartika Senjarini. 2021. "ANOPHELES MICROBIOTA IN MALARIA VECTOR AND THE EFFECT ON PARASITE TRANSMISSION." <i>BIOEDUKASI: Jurnal Biologi dan Pembelajarannya</i> 19(2): 79–89. 9. Oktarianti, R., DR Damara, SUR Qudsiyah, S Wathon, K Senjarini. 2021. "In Vitro Analysis of Human Immune Response (IgG) against Salivary Gland Extract of Dengue Vector from 	

	<p><i>Dengue Hemorrhagic Fever (DHF) Endemic Area in Jember, Indonesia.</i>” In IOP Conference Series: Earth and Environmental Science, IOP Publishing, 12090.</p> <p>10. Oktarianti, Rike, Rochmatul Nuryu Khasanah, Syubbanul Wathon, and Kartika Senjarini. 2021. “Detection of Immunogenic Protein from Salivary Gland of Aedes Albopictus.” <i>Universa Medicina</i> 40(3): 234–42.</p> <p>11. Senjarini, Kartika, Rike Oktarianti, Ratis Nour Sholichah, and Ahmad Tosin. 2020. “Morphological Characteristic Difference Between Mosquitoes Vector for Malaria and Dengue Fever.” <i>BIOEDUKASI: Jurnal Biologi dan Pembelajarannya</i> 18(2): 53–58.</p> <p>12. Wathon, Syubbanul, Fitria MUT’AH, Rike Oktarianti, and Kartika Senjarini. 2020. “Purifikasi Protein Immunogenik 31 Dan 56 Kda Dari Kelenjar Saliva Aedes aegypti”. <i>Jurnal Bioteknologi & Biosains Indonesia (JBB)</i> 7(1): 59–71.</p> <p>13. Arifianto RP, D Masruroh, MJ Habib, MG Wibisono, S Wathon, R Oktarianti, K Senjarini. 2018. Identifikasi dan Analisis Bionomik Vektor Malaria Anopheles sp. di Desa Bangsring Kecamatan Wongsorejo, Banyuwangi. <i>Acta VETERINARIA Indonesiana</i>. 6 (1), 44-50</p>		
Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	<i>Indonesian Society for Microbiology</i>	<i>Member</i>	2020 – now



Name	Nurhayati, Ph.D		
Post	Associate Professor		
Academic career	Academic appointment	Institution	Year
	Doctorate (<i>Doctor in Food Science</i>)	<i>Institut Pertanian Bogor, Indonesia</i>	2011
	Graduate degree (<i>Master in Food Science</i>)	<i>Institut Pertanian Bogor, Indonesia</i>	2007
	Undergraduate degree (<i>Bachelor of Agricultural Products Technology</i>)	<i>Univeritas Jember, Indonesia</i>	2001
Employment	Position	Employer	Period
	<i>Lecturer</i>	<i>Faculty of Agricultural Technology University of Jember, Indonesia</i>	2003-now
	<i>Head of Studio of Entrepreneur Laboratory</i>	<i>Faculty of Agricultural Technology University of Jember, Indonesia</i>	2017-now
	<i>Chief a Editor of Agroteknologi Journal</i>	<i>Faculty of Agricultural Technology University of Jember, Indonesia</i>	2015-now
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. <i>Fermented food based on local commodity, 2021, 75 Mio Rupiah.</i> 2. <i>Biosafety traceability on agricultural products, 2020-2021, 125 Mio Rupiah.</i> 3. <i>SME of Pangan ASUH, 2018-2021, 100 Mio Rupiah</i> 4. <i>Indonesian banana and plantain, BRIN, 2022, 70 Mio Rupiah</i> 5. <i>Development of indigenous starter, 2020-2021, 100 Mio Rupiah</i> 6. <i>Research and Development Product of SME "Pangan ASUH", 2015-Now, 200 Mio Rupiah</i> 		

	7. <i>Cultural recontruction based on local CSR Antam, 2022-2023, 800 Mio Rupiah</i>
Industry collaborations over the last 5 years	<p><i>Project title:- Ripe Banana Products, Development Products made from banana commodity, 2017-Now</i></p> <p><i>Partners:-UD. Burno Sari</i></p> <p><i>Project title:- Fermented Products, Development Products made from cassava, cascara, coconut water, 2018-Now</i></p> <p><i>Partners:-UD. Pangan ASUH</i></p>
Patents and proprietary rights	<p><i>Copyright for Text book of "Teknologi Pengolahan Komoditas Perkebunan Hulu "Rempah" EC00201951057</i> 16 Agustus 2019</p>
	<p><i>Copyright for Text book of Teknologi Pangan Lokal Terfermentasi" EC00201951056</i> 16 Agustus 2019</p>
	<p><i>Copyright for Research "Bioteknologi Fermentasi Kefir Co-Culture Sebagai Minuman Fungsional Menggunakan Probiotik Indigenus Gatot. EC00202167917, 23 November 2021</i> 23 November 2021</p>
	<p><i>Patent: Keripik Pisang Masak Super Renyah IDP000049527</i> Granted 09 Febr 2018</p>
	<p><i>Patent: Formulasi untuk cookies non gluten berprebiotik berbahan tepung kedelai dan pisang IDP000068713</i> Granted 11 Mei 2020</p>
	<p><i>Patent: Proses Ekstraksi Pektik Polisakarida dari Limbah Pisang IDP000071851</i> Granted 30 September 2020</p>
	<p><i>Patent: Proses Pembuatan Keju Kedelai (Soycheese) Rendam Garam Menggunakan Kapang Indegenes Dan Produk Yang Dihasilkannya IDP000074819</i> Granted 05 Februari 2021</p>
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx 13 international journals and 16 national accredited journals:</i></p> <ol style="list-style-type: none"> 1. Anggraeni, S. L., Jayus, J., Ratnadewi, A. A. I., & Nurhayati, N. (2022). Edamame protein hydrolysis using <i>Lactococcus lactis</i>, <i>Lactobacillus bulgaricus</i> and <i>Lactobacillus paracasei</i> produce short peptides with higher antioxidant potential. <i>Biodiversitas Journal of Biological Diversity</i>, 23(7). (Terindeks Scopus Q3) 2. Pujiati, Erlia Narulita, Nurhayati Nurhayati, : "Quality improvement of bioedible packaging using single culture and SCOBY starter". Accepted 02 July 2022 <i>Food Research Journal</i> (Terindeks Scopus Q3) 3. Faiza Yusky Zamzami, Achmad Subagio, Umi Purwandari, Nurhayati Nurhayati, : "Isolation and identification of gastric acid-tolerant yeast from tapai" Accepted 30 Mei 2022. <i>Food Research Journal</i> (Terindeks Scopus Q3) 4. Ika Wahyuni, Achmad Subagio, Umi Purwandari, Nurhayati Nurhayati, : "Isolation and identification of gastric acid-tolerant

- yeast from tapai". Accepted 11 Maret 2022 Jurnal Scopus. *Food Research Journal (Terindeks Scopus Q3)*
5. **Nurhayati Nurhayati**, Jayus, Jay, Anjas Wida Elistia Rini, Bambang Sugiharto, and Dedy Eko Rahmanto. "Isolasi dan Identifikasi Khamir Toleran Alkohol dari Molase. 7 (1): 1-10 (2022). *BIOTA: Jurnal Ilmiah Ilmu-Ilmu Hayati (Sinta 3)*
 6. Dedy Eko Rahmanto, Deny Arizal, **Nurhayati Nurhayati**, 2022. Utilization of Banana Peel for Bioethanol Production Using Baker's Yeast Starter. 16: 82-88. SPRINGER NATURE: Proceeding Advances in Biological Sciences Research, volume 16 **(Terindeks Scopus)**
 7. **Nurhayati Nurhayati**, Maria Belgis, Jay Jayus, Infidzah S. Velianti. 2022. Increasing of Wet Noodles Quality Using Vegetables Oil Coating. SPRINGER NATURE: Proceeding Advances in Biological Sciences Research, volume 16: 242-246 **(Terindeks Scopus)**
 8. Aurora Urbahillah, Jay Jayus, **Nurhayati**, 2021. Improving SCOBY starter using co-culture of tapai and bakery yeast. 22 (10) 4617-4624. *Journal of Biological Diversity (Terindeks Scopus Q3)*
 9. Jayus, J., Akroman, R., **Nurhayati, N.**, Nugraha, A. S., Piluharto, B., & Seviour, R. J. (2021). Structural elucidation of the exopolysaccharide produced by *Curvularia lunata* isolate RJ01. 22 (5) 2021: 2699-2705. *Biodiversitas Journal of Biological Diversity (Terindeks Scopus Q3)*
 10. **Nurhayati**, Maria Belgis, Sih Yuwanti. 2020. Alih Teknologi Ekstrusi Kerupuk Ikan di UD Bismillah Kabupaten Lumajang. 1 (1) 2020: 56-64. *Prosiding Seminar Nasional Pertanian 1(1), 56-64*
 11. **Nurhayati**, Maria Belgis, Sih Yuwanti, Shania Listyana Putri. 2020. Teknologi Pembuatan Kerupuk Ikan Bulak (*Sardine fimbriata*) di UD. Bismillah. 4 (5) 2020: 940-947. *Jurnal Masyarakat Mandiri (Sinta 3)*
 12. **Nurhayati**, Aurora Urbahillah, Sih Yuwanti. 2020. Karakteristik Fisikokimia dan Sensori Kombucha Cascara (Kulit Kopi Ranum)". 31 (1) 2020: 192-202. *Jurnal Teknologi&Industri Pangan IPB (Sinta 2)*
 13. Marina Ekawati, Yuli Wibowo, Kiky Chily Arum Dalu, **Nurhayati**. 2019. Determinasi Diversifikasi Vertikal Produk Olahan Jambu Merah. 13 (2) 2019: 192-202. *Jurnal Agroteknologi (Sinta 3)*
 14. **Nurhayati Nurhayati**, Maria Belgis, Enny Suswati, Umi Purwandari. 2019. Application of RTU Media for Biosafety of *Mie letheke*, Indonesian Bendo-Cassava Noodles, Based on Chromogenic Agar. ISBN: 978-602-14917-9-9. *Prosiding The Second International Conference on Food and Agriculture*
 15. Kiky Chily Arum Dalu, **Nurhayati Nurhayati**, and Jay Jayus., *In Vitro* Modulation of Fecal Microflora Growth Using Fermented "Pisang Mas" Banana and Red Guava Juices. 7/2/2019. Current Research in Nutrition and Food Science **(Terindeks Scopus Q3)**
 16. Avinda Nur Rahmawati. Maryanto Maryanto. **Nurhayati Nurhayati**. 2019. Karakteristik Flake Ubi Jalar Orange dan Ungu dengan Penambahan Minyak Nabati (Minyak Sawit, Minyak Kelapa dan Margarin). 13 (1) 2019: 85-91. *Jurnal Agroteknologi (Sinta 3)*


Oral Presentation in international Conferences

Seminar Nasional Dies Natalis Ke- 56 Universitas Atma Jaya Yogyakarta dengan tema "Pemenuhan Kebutuhan Pangan Melalui Eksplorasi Sumber Daya Lokal dan Inovasi Teknologi dalam Rangka Pemberdayaan Ekonomi Masyarakat". Webinar, 18 September 2021

The 6th IC-FANRes 2021. - Utilization of Banana Peel for Bioethanol Production Using Baker's Yeast Starter

	<p>-Increasing of Food Safety on Wet Noodles Using Coconut Oil Compare with Other Vegetable Oil</p> <p>The 6th FIA Conference 2020 “on Food Science, Nutrition and Health. “Predictive microbiology: controlling biosafety of retail commodity using RTU and chromogenic media”.</p> <p>The 4th International Conference on Agriculture and Life Science 2020. 1. Nata Production As Edible Packaging Using Coconut Water And Molases 2. Prevalency of Acrylamide Contaminant on Cimol Street Food</p> <p>The 3rd International Conference on Agromedicine & Tropical Diseases: Healthy Modulation of Microflora Using Activated Biochar</p> <p>Asean Food Conference, Nusa Dua Bali, 16-18 Octo 2019: Quality of Processed Meatball by Vacuum Packaging, Pasteurization, and Chilling Storage</p> <p>International Seminar and Workshop of Plants Industry, Jember, 1 November 2018; RTU chromogenic agar as fast methods for detection of enteropathogenic bacteria on agricultural products</p> <p>International Conference of Food and Agriculture. Jember, 1 November 2018: Increasing of fish quality using ice-sterof foam container for Paseban fisherman at Jember Regency East Java, Indonesia,</p>		
Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	Indonesian Association of Food Technologists - PATPI	Member	20013-now
	<i>International Society of Lactic Acid Bacteria</i>	Member	2016-now



			
Name	Parawita Dewanti, Ph.D		
Post	Associate Professor		
Academic career	<i>Lecturer</i>	<i>University of Jember</i>	
	<i>Doctor in</i>	<i>University of Brawijaya</i>	
	<i>Master in</i>	<i>University of Gadjah Mada</i>	
	<i>Bachelor in</i>	<i>University of Jember</i>	
Employment	<i>Staff</i>	<i>University of Jember</i>	<i>1990</i>
Research and development projects over the last 5 years	<i>Name of project or research focus</i> <i>Period and any other information</i> <i>Partners, if applicable</i> <i>Amount of financing</i>		
Industry collaborations over the last 5 years	<i>Project title:</i> <ol style="list-style-type: none"> 1. <i>Somatic Embryogenesis and Synthetic Seed of Sugarcane</i> 2. <i>Orchid Propagation</i> <i>Partners:</i> <ol style="list-style-type: none"> 1. <i>PTPN XI</i> 2. <i>UPT Agrotechnopark Unej</i> 3. <i>DD ORCHID Nursery Malang</i> 		
Patents and proprietary rights	Title		Year
	<ol style="list-style-type: none"> 1. <i>Metode Peningkatan Pertumbuhan Tanaman Melalui Transformasi Gen SoSPS Tebu Menggunakan Vektor Agrobacterium tumifaciens</i> 2. <i>Dendrobium UNEJ Excellence</i> 		 2020 2021
Important publications over the last 5 years	<i>Selected recent publications from a total of approx. (give total number):14</i> <i>Author(s) :Parawita Dewanti et al</i> <i>Title: Development of Synthetic Seeds Derived From Coleoptile of Sugarcane through Somatic Embryogenesis</i> <i>International Journal of Agriculture and Biology. Vol. 26 No. 3, September 2021</i>		
Activities in specialist bodies over the last 5 years	<i>Organisation</i>	<i>Role</i>	<i>Period</i>
	<ol style="list-style-type: none"> 1. <i>PERHORTI</i> 2. <i>SAFE</i> 	 <i>Pengurus</i> 2020-2024 <i>Member</i> 2019-2022	



Name	Bambang Piluharto, Ph.D		
Post	Assistant Professor		
Academic career	Academic appointment	Institution	Year
	<i>Doctorate (Doctor in Molecular Microbiology)</i>	<i>Institut Teknologi Bandung, Indonesia</i>	<i>2011</i>
	<i>Graduate degree (Master in Biology – Molecular Genetics)</i>	<i>Institut Teknologi Bandung, Indonesia</i>	<i>2001</i>
	<i>Undergraduate degree (Bachelor in Biology)</i>	<i>Univeritas Brawijaya, Indonesia</i>	<i>1995</i>
Employment	Position	Employer	Period
	<i>Lecturer & Researcher</i>	<i>Universitas Jember, Indonesia</i>	<i>1997-present</i>
	<i>Head of Chemistry Department – Faculty of Mathematics & Natural Sciences</i>	<i>Universitas Jember, Indonesia</i>	<i>2013-2021</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <i>1. Encapsulation of neem oil (Azadirachta Indica A.Juss) with high efficient entrapment and photostability for biopesticides application, Internal Research Grand, Universitas Jember (2022-2023) , 63 Mio IDR</i> <i>2. Development of PANI/Cellulose composites as conductive paper flexible material (2022), Research Group Grand, Universitas Jember, 22.5 Mio IDR</i> <i>3. The smart material based on green materials for film indicator application (2020), Research Group Grand, Universitas Jember, 27.5 Mio IDR</i> <i>4. Functionalization of biomaterials biomass-based for chemical separation applications (2019), Research Group Grand, Universitas Jember, 30 Mio IDR</i> <i>5. Synthesis and modification of biomaterials based on cellulose as materials for delivery system and membrane filtration (2018), 30 Mio IDR</i> 		
Industry collaborations over the last 5 years			
Patents and proprietary rights	Title		Year
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. 21 international journals and 18 national accredited journals</i></p> <ol style="list-style-type: none"> <i>1. Bayu Rudiyanto, Muhamad Andrianto, Bambang Piluharto, Miftah Hijriawan, Design-Based Response Surface Methodology in Optimizing the Dry Washing Purification</i> 		

	<p><i>Process of Biodiesel from Waste Cooking Oil, (2022), International Journal of Heat and Technology, 40 (2), 561-568</i></p> <p>2. <i>Holilah Holilah, Hasliza Bahruji, Ratna Ediaty, Asranudin Asranudin, Aishah Abdul Jalil, Bambang Piluharto, Reva Edra Nugraha, Didik Prasetyoko, (2022), Uniform rod and spherical nanocrystalline celluloses from hydrolysis of industrial pepper waste (Piper nigrum L.) using organic acid and inorganic acid, International Journal of Biological Macromolecules 204. 593–605</i></p> <p>3. <i>Bambang Piluharto, Zulfikar , Maya ulfa Endah Sari, Istiqomah Rahmawati and Harry Prasetio, (2021), Utilisation of Banana Peel for Preparation of Bacterial Cellulose-based Ion Exchange Membrane, ASM Sc. J., 16, Special Issue 1, 143-148</i></p> <p>4. <i>B. Piluharto, U. Salamah, D. Indarti (2020), Preparation of Alginate/Nanocellulose Nanocomposite for Protein Adsorption, Macromolecule symposia, 391, 1-4</i></p> <p>5. <i>A.W Pratama, B. Piluharto, D. Indarti (2019), Pengaruh konsentrasi asam terhadap sifat fisik dan muatan permukaan selulosa termodifikasi, Alchemy, 15 (2), 315-328</i></p> <p>6. <i>Bambang Piluharto, Yuyus Jayusman, Veinardi Suendoc, Sadiyah Achmad, Cynthia Linaya Radiman (2019), Hydrophilic Domain Contribution on the Proton Transport Properties of Sulfonated Polysulfone Based Blend Membranes, Indonesian Polymer Journal, 2019, 01, 14–18</i></p> <p>7. <i>B. Piluharto, M. Nurhayati, Asnawati, (2018), Chitosan-base coagulants and its modification in coagulation flocculation of kaolin suspension, J. Kimia Mulawarman, 16-21</i></p>		
Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	<i>Indonesian Chemical society</i>	<i>Head of Indonesian Chemical society, chapter east Java</i>	2021 – now



Name	Hardian Susilo Addy, Ph.D		
Post	Assistant Professor		
Academic career	Lecturer	University of Jember	2005
	Doctor in Molecular Biotechnology	Hiroshima University	2012
	Master in Agriculture	Gadjah Mada University	2005
	Bachelor in Agriculture	University of Jember	2003
Employment	<i>Academic Staff</i>	<i>University of Jember</i>	2005
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Molecular Study on Phage Biocontrol against phytopathogenic bacteria Since 2012 until Now including International collaboration research with Hiroshima University and United State Department of Agriculture. This researches were funded by University of Jember, National Government, and also by the overseas partners 2. Genome Editing of Rice for resistance development against Phytopathogenic bacteria. Since 2018 and funded by the University of Jember 		
Industry collaborations over the last 5 years			
Patents and proprietary rights			
Important publications over the last 5 years	<p>About 17 Publications</p> <ol style="list-style-type: none"> 1. NE Nadhira, A Wafa, WID Fanata, HS Addy. 2022. Resistance gene expression in selected Indonesian pigmented rice varieties against infection by <i>Xanthomonas oryzae</i> pv. <i>oryzae</i>. Indonesian Journal of Biotechnology 27 (2), 51-57. 2. D Rejeki, HS Addy, E Narulita. 2021. Partial Characterization of Bacteriophages from Indonesia and its Potency as Biocontrol of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i>. International Journal of Agriculture and Biology 25, 75–80 3. AA Ahmad, HS Addy, Q Huang. 2021. Biological and Molecular Characterization of a Jumbo Bacteriophage Infecting Plant Pathogenic <i>Ralstonia solanacearum</i> Species Complex Strains. Frontiers in microbiology, 2762 4. HS Addy, AA Ahmad, Q Huang. 2019. Molecular and Biological Characterization of Ralstonia Phage RsoM1USA, a New Species of P2virus, Isolated in the United States. Frontiers in microbiology 10, 267 		
Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	Indonesian Phytopathological Society	Member and Chairman	2018-2022
	Asian Federation of Biotechnology	Member	2017 – Now
	Indonesian Protein Society	Member	2017 - Now



Name	Tri Handoyo, Ph.D		
Post	Associate Professor		
Academic career	Lecturer	Universitas Jember	1998-present
	Doctor in	Osaka Prefecture University	2006
	Bachelor in	Universitas Jember	1996
Employment	Teaching Staff	Universitas Jember	2014-present
	Researcher Staff	Centre for Development of Advanced Science and Technology (CDAST) Universitas Jember	2014-present
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Tissue culture media optimization for micro tubers of Porang (2022) 2. Tissue culture Media optimization for embryo somatic formation to produce synthetic seed of Porang (2020) 3. Genetic and Phytochemicals Characteristics of Indonesian Black Rice diversity (2020) 4. Molecular and Physicochemicals characteristic of Indonesian aromatic rice diversity (2019) 5. Production of Porang seed for glucomannan sources by tissue culture technic (2019) 6. Regeneration of rice anther culture for hybrid rice production (2019) 7. Hybrid aromatic rich pro-vitamin A engineered (2019) 8. Optimization of anther culture method for developing of double haploid black rice (2029) 9. 		
Industry collaborations over the last 5 years	<p>Project title: Field trials of Porang tissue culture seed</p> <p>Partners: PT. Repindo, Madiun Indonesia</p>		
Patents and proprietary rights	Title		Year
Important publications over the last 5 years	<p>13 publications</p> <ol style="list-style-type: none"> 1. Nabilah, S., Handoyo, T., Kim, K.-M., Ubaidillah, M. (2022) Expression analysis of OsSERK, OsLEC1 and OsWOX4 genes in rice (<i>Oryza sativa</i> L.) callus during somatic embryo development, <i>Biocell</i>, 46(7), pp. 1633–1641. 2. Fitri, I.G.S., Nurhasanah, Handoyo, T. (2021) Genetic and phytochemical analysis of Indonesian black rice cultivars. <i>Journal of Crop Science and Biotechnology</i>, 2021, 24(5), pp. 567–578. 3. Park, J.-R., Jan, R., Park, S.-G., Handoyo, T., Bae, J.-S., Kim, K.-M. The quantitative trait loci mapping of rice plant and the components of its extract confirmed the anti-inflammatory and platelet aggregation effects in vitro and in vivo, <i>Antioxidants</i>, 2021, 10(11), 1691. 		

4. Sholikhah, U., Parjanto, **Handoyo, T.**, Yunus, A. (2021) Anthocyanin Content in Some Black Rice Cultivars. *IOP Conference Series: Earth and Environmental Science*, 709(1), 012076.
5. Tania, L., Nugraha, A.S., **Handoyo, T.**, Kusumawardani, B. (2021) Chemical composition of kasturi tobacco resinoid determined by gas chromatography-mass spectrometry. *Malaysian Journal of Analytical Sciences*, 25(4), pp. 661–668.
6. Wulandari, F.E., Suherman, **Handoyo, T.**, Kim, K.-M., Sugiharto, B. (2021) Impact of transgenic sugarcane overexpressing SoSPS1 gene on bacterial diversity, enzyme activity and minerals content in soil rhizosphere. *Journal of Crop Science and Biotechnology*, 24(1), pp. 61–69.
7. Maulidiya, A.U.K., Sugiharto, B., Dewanti, P., **Handoyo, T.** (2020) Expression of somatic embryogenesis-related genes in sugarcane (*Saccharum officinarum* L.). *Journal of Crop Science and Biotechnology*, 23(3), pp. 207–214.
8. Sholehah, I.M., Restanto, D.P., Kim, K.-M., **Handoyo, T.** (2020) Diversity, Physicochemical, and Structural Properties of Indonesian Aromatic Rice Cultivars. *Journal of Crop Science and Biotechnology*, 23(2), pp. 171–180.
9. Maharani, A., Fanata, W.I.D., Laeli, F.N., Kim, K.-M., **Handoyo, T.** (2020) Callus Induction and Regeneration from Anther Cultures of Indonesian Indica Black Rice Cultivar. *Journal of Crop Science and Biotechnology*, 23(1), pp. 21–28.
10. Sholikhah, U., Parjanto, **Handoyo, T.**, Yunus, A. (2019) Morphological characters of several black and aromatic rice (*Oryza sativa* L.) in Indonesia, *AIP Conference Proceedings*, 2120, 030029.
11. Sholikhah, U., Parjanto, **Handoyo, T.**, Yunus, A. (2019) Genetic diversity of black and aromatic rice cultivar (*Oryza sativa* L.) from various regions in Indonesia using Random Amplified Polymorphic DNA Markers (RAPD), *International Journal on Advanced Science, Engineering and Information Technology*, 9(3), pp. 1046–1051.
12. Neliana, I.R.; Sawitri, W.D.; Ermawati, N.; **Handoyo, T.**; Sugiharto, B. (2019) Development of allergenicity and toxicity assessment methods for evaluating transgenic sugarcane overexpressing sucrose-phosphate synthase. *Agronomy*, 9(1), 23.
13. Zakiyah, N.M., **Handoyo, T.**, Kim, K. M.. (2019) Genetic Diversity Analysis of Indonesian Aromatic Rice Varieties (*Oryza sativa* L.) Using RAPD. *Journal of Crop Science and Biotechnology*. 22, 55–63.

Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	Indonesia Protein Society (IPS)	Member	2014-present
	Indonesian Society for Biochemistry and Molecular Biology (PBBMI)	Member	2017-present



Name	Wahyu Indra Duwi Fanata, Ph.D		
Post	Assistant Professor		
Academic career	<i>Lecturer</i>	<i>Universitas Jember</i>	<i>2014-present</i>
	<i>Doctor in</i>	<i>Gyeongsang National University</i>	<i>2013</i>
	<i>Master in</i>	<i>Gyeongsang National University</i>	<i>2004</i>
	<i>Bachelor in</i>	<i>Universitas Jember</i>	<i>2003</i>
Employment	<i>Teaching Staff</i>	<i>Universitas Jember</i>	<i>2014-present</i>
	<i>Researcher Staff</i>	<i>Centre for Development of Advanced Science and Technology (CDAST) Universitas Jember</i>	<i>2014-present</i>
Research and development projects over the last 5 years	<ol style="list-style-type: none"> <i>1. Integration of Aromatic and Salt Tolerance Traits into Two Popular Indonesian Rice Varieties (2022; Rp. 71.000.000)</i> <i>2. Utilization of Bradbury Marker in the Selection of Aromatic Rice Lines Selection (2022; Rp. 29.500.000)</i> <i>3. Optimization of Tissue Culture Media for Mentik Wangi, Mentik Wangi Susu, and Tarabas Rice (2020; Rp.23.500.000)</i> <i>4. Characterization of UPR Gene Expression in Several Rice Varieties under Drought Stress (2019; Rp. 29.000.000)</i> <i>5. Utilization of Several Aromatic-related Molecular Marker to Screen the New Aromatic Rice Lines derived from Merah Wangi and Pendok Cross Polination (2018; Rp. 50.000.000)</i> 		
Industry collaborations over the last 5 years	<i>Project title</i> <i>Partners</i>		
Patents and proprietary rights	Title		Year
Important publications over the last 5 years	6 publications <ol style="list-style-type: none"> <i>1. Husna, S.F., Fatihatul, Dewanti, P., Sugiharto, B., Fanata, W.I.D., 2022, Expression of cytokinin responsive and ethylene biosynthesis genes in rice callus with different regeneration rates, Indonesian Journal of Biotechnology, 27(2), pp. 65–72</i> <i>2. Khasanah, H., Fanata, W.I.D., Kusbianto, D.E., 2022, Analysis of Chicken Gut Microbiome Fed by Phyllanthus urinaria as Phytobiotic Using 16S rRNA Metagenome, Iranian Journal of Applied Animal Science, 12(1), pp. 151–160</i> <i>3. Ramadhan, G.R., Avivi, S., Sugiharto, B., Fanata, W.I.D., 2021, Unfolded protein response in rice (Oryza sativa L.) varieties with different level of salt stress tolerance, Indonesian Journal of Biotechnology, 26(3), pp. 152–158</i> 		

4. Arisandi, D.P., Paradisa, F.V., Sugiharto, B., Avivi, S., **Fanata, W.I.D.**, 2020, *Effect of ethylene inhibitor, type of auxin, and type of sugar on anther culture of local East Java aromatic rice varieties*, *Journal of Crop Science and Biotechnology*, 23(4), pp. 367–373
5. Maharani, A., **Fanata, W.I.D.**, Laeli, F.N., Kim, K.-M., Handoyo, T, 2020, *Callus Induction and Regeneration from Anther Cultures of Indonesian Indica Black Rice Cultivar*, *Journal of Crop Science and Biotechnology*, 23(1), pp. 21–28
6. Arum, L.S., Supriyadi, A., Novianti, E., **Fanata, W.I.D.**, Siswoyo, T.A. , 2018, *Drought stress induced the expression level of ascorbate peroxidase in the late seedlings of Melinjo (Gnetum gnemon)* *International Journal of Agriculture and Biology*, 20(6), pp. 1303–1308

Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	Indonesia Protein Society (IPS)	Member	2014-present
	Indonesian Society for Biochemistry and Molecular Biology (PBBMI)	Member	2017-present



Name	Mohammad Ubaidillah, Ph.D		
Post	Assistant Professor		
Academic career	Lecturer	University of Jember	2015
	Doctor in Plant Applied Bioscience	Kyungpook National University	2015
	Master in Agriculture	Kyungpook National University	2012
	Bachelor in Biology	University of Jember	2009
Employment	<i>Academic Staff</i> <i>University of Jember</i>		2005
Research and development projects over the last 5 years	<ol style="list-style-type: none"> Study of characterization and potential genetic on local rice by molecular approach Development rice varieties by Biotechnology and molecular breeding 		
Industry collaborations over the last 5 years			
Patents and proprietary rights			
Important publications over the last 5 years	<p>About 10 Publications</p> <ol style="list-style-type: none"> Nabilah, S., Handoyo, T., & Ubaidillah, M. (2022). Expression analysis of OsSERK, OsLEC1 and OsWOX4 genes in rice (<i>Oryza sativa</i> L.) callus during somatic embryo development. <i>Biocell</i>, 46(7), 1633. Park, J. R., Kim, E. G., Jang, Y. H., Jan, R., Farooq, M., Ubaidillah, M., & Kim, K. M. (2022). Applications of CRISPR/Cas9 as New Strategies for Short Breeding to Drought Gene in Rice. <i>Frontiers in Plant Science</i>, 13. Lee, So-Young, Eun-Gyeong Kim, Jae-Ryoung Park, Young-Hyun Ryu, Won Moon, Gyu-Hwan Park, Mohammad Ubaidillah, Su-Noh Ryu, and Kyung-Min Kim. (2021): "Effect on chemical and physical properties of soil each peat moss, elemental sulfur, and sulfur-oxidizing bacteria." <i>Plants</i> 10, no. 9: 1901. Susilowati, E., Sanjaya, B. R. L., Nugraha, A. S., Ubaidillah, M., & Siswoyo, T. A. (2021). Revealing of free radical scavenging and angiotensin I-converting enzyme inhibitor potency of pigmented rice seed protein. <i>Food Science and Technology</i>, 42. 		
Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	Indonesian Protein Society	Member	2017 - Now