

## Staff Handbook

Name	Novi Arfarita, SP, MP, M.Sc, Ph.D		
Position	Lecturer		
Academic career	<b>Doctoral degree (Philosophy of Doctor)</b>	Environmental Engineering Yamaguchi University, Japan	2013
	<b>Magister of Science</b>	School of Science, Mae Fah Luang University	2007
	<b>Magister Pertanian</b>	Faculty of Agriculture University of Brawijaya, Malang, Indonesia	2008
	<b>Undergraduate degree</b>	Faculty of Agriculture University of Brawijaya, Malang, Indonesia	1995
Employment	<b>Lecturer</b>	Agrotechnology Department, Faculty of Agriculture University of Islam Malang	2009-now
Subject Module	<ul style="list-style-type: none"> <li>• Basics of Microbiology</li> <li>• Bioremediation</li> <li>• Agricultural Biotechnology</li> </ul>		
Research and development projects over the last 5 years	<ul style="list-style-type: none"> <li>• Increasing the Efficiency of Application of BLB (Bacterial-Liquid Biofertiliser) with ISE (Electrical Stimulation Induction) to Enhance Production of Seasonal Food Crops.</li> <li>• Isolation and characterization of Indigenous Exopolysaccharide-Bacteria (EPS) and Quality Improvement of Liquid Biofertiliser NFB-PSB (Nitrogen Fixing-Phosphate Solubilizing bacteria) with Viability Control.</li> </ul>		
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> <li>• Consultant of Halal Assurance System, Department of Tourism and Culture, Malang City.</li> <li>• Consultant of Food Health, Small and Medium Enterprises, Malang City</li> <li>• Consultant of Farms Health (Probiotics)</li> <li>• Consultant of Degraded Land Rehabilitation, Ministry of environment</li> </ul>		
Patents and proprietary rights	<ul style="list-style-type: none"> <li>• Zero Waste Technology with Silage &amp; Bio-compost Products from Water Hyacinth Weeds (Certificate of proprietary Rights, Model, 2019)</li> <li>• Bio-fertiliser liquid formulation with Indigenous Functional Bacteria and EPS Bacteria (Simple Patent, Process until Material Examination, 2020)</li> <li>• Field Application of <i>Trichoderma viride</i> strain FRP 3 for in situ bioremediation on glyphosate contaminated land in Indonesia (Certificate of proprietary Rights, Scientific Work in Poster, 2021)</li> <li>• Trademark of Bio-fertilizer: BioferNA (2021)</li> </ul>		
Important publications over the last 5 years	Selected recent publications from a total of approx. 50 papers: <ul style="list-style-type: none"> <li>• Yulia Nuraini, <b>Novi Arfarita</b>, Bambang Siswanto. 2015. Isolation and Characteristic of Nitrogen-Fixing Bacteria and Phosphate-Solubilizing</li> </ul>		

	<p>Bacteria from Soil High in Mercury in Tailings and Compost Areas of Artisanal Gold Mine. <i>AGRIVITA</i>, 37(1), 1-7.</p> <ul style="list-style-type: none"> <li>• <b>Novi Arfarita</b>, Ekachai Chukeatirote. 2015. Characterization of Protease-Producing Bacteria Isolated from Terasi. <i>Journal of Biological Researches</i>, 21(1), 18-23.</li> <li>• <b>Novi Arfarita</b>, Nur Hidayati, Anis Rosyidah, Mashuri Machfudz, Takaya Higuchi. 2016. Exploration of Indigenous Soil Bacteria Producing-Exopolysaccharides for Stabilizing of Aggregates Land Potential as Biofertilizer. <i>Journal of Degraded and Mining Land Management</i>, 4(1), 697-702.</li> <li>• Hardadi Airlangga, Endand Safitri, <b>Novi Arfarita</b>. 2015. Observasi Efek ekstrak etanol Daun Bambu Jawa (<i>Gigantocloa</i>) dengan Parameter Fisik dan Fisiologi hewan Uji Tikus (<i>Rattus Sp.</i>) yang Diinduksi boraks. <i>Jurnal Biologi El-Hayah</i>, 5(2), 83-88.</li> <li>• <b>Novi Arfarita</b>. 2015. Isolasi dan Identifikasi Bakteri Penghasil Protease yang Diskrining dari Terasi. <i>Jurnal Biologi El-Hayah</i>, 5(3), 119-122.</li> <li>• Dimaz Anugerah Ilaahi, Erna Sulistyowati, <b>Novi Arfarita</b>. 2015. Konsentrasi Hambat Minimal Campuran Rimpang Lengkuas dan Abu Merang dengan Pembanding Ketokonazol pada Pertumbuhan <i>Pityrosporum ovale</i>. <i>Jurnal Bio Komplementer Medicine</i>, 2(1), 55-63.</li> <li>• Muhamad Fitrianto, <b>Novi Arfarita</b>, M. Zainul Fadli. 2015. Efek Kombinasi Ekstrak Aquades Sirih Hijau (<i>Piper betle</i> L) dan Lengkuas (<i>Alpinia galanga</i>) pada Diameter Pertumbuhan <i>Trichophyton rubrum</i> secara in vitro. <i>Jurnal Kedokteran Komunitas</i>, 3(1), 184-190.</li> <li>• Mochamad Ricky Fauzan Adyaksa, <b>Novi Arfarita</b>, Noer Aini. 2015. EFEK KOMBINASI DEKOKTA <i>Centella asiatica</i>, <i>Imperata cylindrica</i>, dan <i>Ortosiphon aristatus</i> TERHADAP PENURUNAN FREKUENSI DENYUT JANTUNG EMBRIO IKAN ZEBRA (<i>Danio rerio</i>). <i>Jurnal Kedokteran Komunitas</i>, 3(1), 298-303.</li> <li>• Novi Arfarita. 2015. Observation on Physiology and Physical Parameters of Ethanolic Extract Effect of <i>Gigantocloa</i> atter to The Animal Test (Rats) Induced by Borax. <i>The 1st International Conference of Environmental Pollution on Human Health 2015</i>.</li> <li>• Arif Yahya, Nour Athiroh AS, <b>Novi Arfarita</b>. 2015. Anti-Inflamantory Effect of Ethanolic Extract of <i>Piper crocatum</i> on Expression of Interleukin Cytokine in Gastric of Wistar Rats after Induced by Aspirin. <i>The 1st International Conference of Environmental Pollution on Human Health 2015</i>, 58.</li> <li>• Evi Kurniati, <b>Novi Arfarita</b>, Tsuyoshi Imai. 2015. Heavy Metal Toxicity on <i>Aspergillus Flavus</i> strain KRP1 as Potential Bioremediation Agent for Comtamined Agricultural Soil. <i>The 1st International Conference of Environmental Pollution on Human Health 2015</i>, 70.</li> <li>• Novi Arfarita. 2015. Combination Effect of Ethanol Extract from Galangal Rizhome and Betel Leaves to Diameter ration Growth of <i>Trichophyton rubrum</i>. <i>The 11th Young Scientist</i>.</li> </ul>
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- Masyhuri Machfudz, **Novi Arfarita**. 2015. Cassava Peel Waste-Eat Jawa Case: Potential Utilization of Cassava Peel for feed and bioethanol. *Water and Environment Technology Conference 2015*, 36.
- **Novi Arfarita**, Nur Hidayati, Anis Rosyidah, Mashuri Machfudz, Takaya Higuchi. 2016. Exploration of Indigenous Soil Bacteria Producing-Exopolysaccharides for Stabilizing of Aggregates Land Potential as Biofertilizer. *Journal of Degraded and Mining Land Management*, 4(1), 697-702.
- **Novi Arfarita**, Djuhari Djuhari, Budi Prasetya, Tsuyoshi Imai. 2016. The Application of Trichoderma Viride Strain Frp 3 for Biodegradation of Glyphosate Herbicide in Contaminated Land. *AGRIVITA*, 38(3), 275-281.
- Ekachai Chukeatirote, **Novi Arfarita**, T Waratrujiwong, A Kangahe. 2016. A Taxonomic study of Bacillus sp. strain S1-13 Isolated from Terasi, an Indonesian shrimp paste. *International Food Research Journal*, 23(6), 2719-2722
- Rico Naza Putra, **Novi Arfarita**, Noer Aini. 2016. TOKSISITAS SUBKRONIK KOMBINASI DEKOKTA Centella asiatica, Imperata cylindrica, dan Orthosiphon stamineus DOSIS TERAPI, MATC, DAN LC50 TERHADAP PERUBAHAN JUMLAH NEKROSIS SEL HEPATOSIT IKAN ZEBRA DEWASA (Danio rerio). *Jurnal Bio Komplementer Medicine*, 3(1), 11-16.
- Mukhamad Andrey Meynar Pratama, Hardadi Airlangga, **Novi Arfarita**. 2016. Aktivitas Hambatan Dekokta Daun Salam (Syzygium polyanthum) terhadap Bakteri Oportunistik Penyebab Diare: Escherichia coli dan Salmonella spp secara in vitro. *Jurnal Bio Komplementer Medicine*, 3(1), 72-76.
- Nuraini Fajrianti, HRM Hardadi Airlangga, **Novi Arfarita**. 2016. Efek Dekokta Daun Salam (Syzygium polyanthum) terhadap Viabilitas Lactobacillus cassei dan Lactobacillus plantarum secara in Vitro. *Jurnal Kedokteran Komunitas*, 4(1), 45-50.
- Ardilla Utari Dewi, **Novi Arfarita**. 2016. Efek Dekokta Daun Salam (Syzygium polyanthum) terhadap Viabilitas Lactobacillus bulgaricus dan Lactobacillus lactis secara in Vitro. *Jurnal Bio Komplementer Medicine*, 3(1), 93-97.
- Dinar Mawarrani Utaman, **Novi Arfarita**. 2016. Aktifitas Hambatan Dekokta Daun Salam (Syzygium polyanthum) terhadap Lactobacillus cassei dan Lactobacillus plantarum secara in Vitro. *Jurnal Bio Komplementer Medicine*, 3(1), 150-153.
- Karina Isti Damayanti, **Novi Arfarita**. 2016. Penurunan Viabilitas Lactobacillus spp. pada Feses Tikus Wistar Jantan Normal setelah Pemberian Dekokta Daun Salam (Syzygium polyanthum). *Jurnal kedokteran Komunitas*, 4(1), 142-150.
- Fahmi Mohammad Bachtiar, **Novi Arfarita**. 2016. Efek Dekokta Daun Salam (Syzygium polyanthum) terhadap Viabilitas Normalflora Bifidobacterium spp. pada Feses Tikus Wistar Jantan. *Jurnal kedokteran Komunitas*, 4(1), 151-159.
- Ellena Heriandhita, Hardadi Airlangga, **Novi Arfarita**. 2016. Aktivitas Hambatan Dekokta Daun Salam (Syzygium polyanthum) terhadap

	<p>Bakteri <i>Lactobacillus lactis</i> dan <i>Lactobacillus bulgaricus</i> secara in Vitro. <i>Jurnal kedokteran Komunitas</i>, 4(1), 131-135.</p> <ul style="list-style-type: none"> <li>• Masyhuri Machfudz, Rini Rahayu Kurniati, <b>Novi Arfarita</b>. 2016. Diversification of Snacks Food Based on Cassava (<i>manihot esculenta</i>). <i>The Dawn of ASEAN Community Based</i>.</li> <li>• <b>Novi Arfarita</b>. 2016. The Exploration of Indigenous Bacteria for Stabilizing of land Aggregate Potential for biofertilizer. <i>The 2nd International Conference on Food, Agriculture, and Natural Resources 2016</i>.</li> <li>• <b>Novi Arfarita</b>. 2016. Potential Use of <i>Bacillus cereus</i> strain HG10 as biofertilizer agents for the formation of soil aggregation as bacteria producing exopolysaccharide. <i>The 12th Young Scientist Seminar</i>.</li> <li>• Novi Arfarita. 2016. Evaluasi Herba Daun Salam (<i>Eugena polyantha</i>) pada Dinamika Mikroflora Intestin Probiotik secara In Vitro. <i>Seminar Penelitian Dirjen Pendidikan Islam Kemenag-Rl</i>.</li> <li>• <b>Novi Arfarita</b>, Mahayu Woro Lestari, Indiyah Murwani, T. Higuchi. 2017. Isolation of Indigenous Phosphate Solubilizing Bacteria from Green Bean Rhizospheres. <i>Journal of Degraded and Mining Lands Management</i>, 4(3), 845-851.</li> <li>• Rizxy Ismi Amalia, Rizki Anisa, <b>Novi Arfarita</b>. 2017. Efek Dekokta Daun Salam (<i>Syzygium polyanthum</i>) terhadap Viabilitas Bakteri Oportunistik <i>Escherichia coli</i> secara <i>In vivo</i>. <i>Jurnal Kedokteran Komunitas</i>, 5(1), 56-66.</li> <li>• Syafarotin, <b>Novi Arfarita</b>, Mahayu Woro. 2018. Pengaruh Aplikasi Pupuk Hayati bersama Kompos terhadap Produksi Tanaman Buncis (<i>Phaseolus vulgaris</i> L.) dan Viabilitas Bakteri Tanah. <i>Jurnal Folium</i>, 2(1), 119-122.</li> <li>• Novi Arfarita, Mahayu Woro Lestari, Anton Muhibuddin, Indiyah Murwani, Tsuyoshi Imai. 2018. Isolation and Characterization of exopolysaccharide indigenic bacteria (EPS) and quality improvement of liquid biofertilizer NFB-PBS (nitrogen Fixing-phosphate solubilizing bacteria) with viability control. <i>Prosiding: Core to Core program 'Established of an international research core for new bio-research fields with microbes from tropical areas'</i>, 217-220.</li> <li>• <b>Novi Arfarita</b>, Anton Muhibuddin, Tsuyoshi Imai. 2019. Exploration of indigenous free nitrogen-fixing bacteria from rhizosphere of <i>Vigna radiata</i> for agricultural land treatment. <i>Journal of Degraded and Mining Lands Management</i>, 6(2), 1617-1623.</li> <li>• Mahayu Woro Lestari, <b>Novi Arfarita</b>, A. Sharma, B. Purkait. 2019. olerance mechanisms of Indonesian plant varieties of yardlong beans (<i>Vigna unguiculata</i> sub sp. <i>sesquipedalis</i>) against drought stress. <i>Indian Journal Agricultural Research</i>, 53(2), 223-227.</li> <li>• <b>Novi Arfarita</b>, Takaya Higuchi, Cahyo Prayogo. 2019. Effects of seaweed waste on the viability of three bacterial isolates in biological fertilizer liquid formulations to enhance soil aggregation and fertility. <i>Journal of Degraded and Mining Lands Management</i>, 6(4), 1889-1895.</li> <li>• Novi Arfarita, Indiyah Murwani, Cahyo Prayogo. 2019. Isolation, selection and identification of indigeneous exopolysaccharide producing bacteria, non-symbiotic N-fixation and P- soluble bacteria as</li> </ul>
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	<p>potential consortium for biofertilizer production. The <i>ESP 10th World Conference</i>, 41.</p> <ul style="list-style-type: none"> <li>• <b>Novi Arfarita</b>, Mahayu Woro Lestari and Cahyo Prayogo. 2020. Utilization of Vermiwash for the Production of Liquid Biofertilizers. <i>AGRIVITA</i>, 42(1), 120-130.</li> <li>• <b>Novi Arfarita</b>, Mohammad Jasa Afroni, Sugiarto, Tsuyoshi Imai. 2020. Enhancing bare land soil quality using electric induction apparatus in combination with rabbit urine liquid fertilizer application to support garlic (<i>Allium sativum</i>) production. <i>Journal of Degraded and Mining Lands Management</i>, 7(4), 2381-2389.</li> <li>• <b>Novi Arfarita</b>, Cahyo Prayogo. 2020. Penerapan Teknologi "Biopot" dalam Menunjang Revegetasi Lahan Bekas Tambang Pasir bersama Masyarakat Desa Bambang-Wajak-Malang. <i>Ethos: Jurnal Penelitian dan Pengabdian Masyarakat</i>, 8(2), 292-299.</li> <li>• Wiwit Nur Hidayah, Indiyah Murwani, <b>Novi Arfarita</b>. 2020. Pengaruh Aplikasi Pupuk Hayati VP3 bersama Kompos Dibandingkan Dengan Pupuk NPK Terhadap Produksi Tanaman Kacang Hijau (<i>Vigna radiata</i> L.) dan Viabilitas Bakteri Tanah. <i>Jurnal Folium</i>, 3(2), 62-74.</li> <li>• Miftahur Rohmah, Sunawan, <b>Novi Arfarita</b>. 2020. Uji Pengaruh Pemberian Pupuk Organik Vermiwash Dan Patogenisitas Pupuk Hayati VP3 Terhadap Enam Bibit Tanaman. <i>Jurnal Folium</i>, 4(2), 23-31.</li> <li>• Cahyo Prayogo, Dimas Prastyaji, Budi Prasetya, <b>Novi Arfarita</b>. 2021. Structure and composition of major Arbuscular Mycorrhiza (MA) under different farmer management of Coffee and Pine Agroforestry System. <i>AGRIVITA</i>, 43(1), 146-163.</li> <li>• Putri Nur Azizah, S Sunawan, Novi Arfarita. 2021. Aplikasi Lapang Pupuk Hayati VP3 dibandingkan dengan Empat Macam Pupuk Hayati yang Beredar di Pasaran terhadap Produksi Tanaman Kedelai (<i>Glycine max</i> L.). <i>Jurnal Folium</i>, 5(1), 26-41.</li> <li>• MW Lestari, <b>N Arfarita</b>, FC Indriani. 2021. The Integration of Manure and Potassium Applications to Improve the Yield and Quality of Sweet Potato (<i>Ipomoea batatas</i> L.). <i>Journal of Hunan University (Natural Sciences)</i>, 48(1), 72-78.</li> <li>• C Prayogo, IA Kusumawati, Z Qurana, S Kurniawan, <b>N Arfarita</b>. 2021. Does different management and organic inputs in agroforestry system impact the changes on soil respiration and microbial biomass carbon?. <i>The 11th International Conference on Global Resource Conservation</i>, 012005, 743.</li> </ul>
<p>Activities in specialist bodies over the last 5 years</p>	<ul style="list-style-type: none"> <li>• Head of International Office, University of Islam Malang (2014-2019)</li> <li>• Head of Halal Centre and Integrated Laboratory, University of Islam Malang (2019-Now)</li> <li>• Reviewer ( Editorial Board) of Brawijaya Medical Journal (2014-Now)</li> <li>• Reviewer of Some International Journals</li> </ul>