

STAFF HANDBOOK

Name / Nama	Marhamah Nadir, SP. M.Si. Ph.D
Position / Bidang keilmuan	Forages Biotechnology
Academic career / Riwayat Pendidikan	<ul style="list-style-type: none"> ● Dept. Agronomy, Agriculture Faculty Hasanuddin University (1996) ● Dept. Biotechnology, Bogor Agriculture University (2002) ● Env. And resource Science, Interdisciplinary Agriculture and Engineering, University Miyazaki, Japan (2014)
Employment / Pekerjaan	Faculty member
Research and development projects over the last 5 years / Riwayat penelitian 5 tahun terakhir	<ol style="list-style-type: none"> 1. Increased Productivity of Allope Chicken Based on Local Feed Protein Source (PRN, 2020, member) 2. Indigofera zollingeriana Mutation Induction for 3. Abiotic stress (PDU, 2021, member) 4. Indigofera zollingeriana Productivity at Various Doses of Gamma Irradiation (PDPA, 2021, PIC) 5. Tolerance of Indigofera to drought stress at various Doses of Gamma irradiation (PDPA, 2021, PIC) 6. Production of Superior Broiler Goats (Cross Boer) through Grading Up Crossing System to Support Animal Protein Food Security (Kedai reka, member, 2023) 7. Development of Generalized Extreme Value Model on Return Level Analysis of Extreme Rainfall in 8. MAKASSAR CITY (RFK, 2023, member) 9. Addition of Guanidino Acetic Acid (GAA) as Feed Additive to Improve the Performance of Kampung Chicken (RFK, 2023, Member) 10. Improving Tolerance of Indigofera zollingeriana Mutant 2 to Salinity Stress for Livestock Development in Coastal Lands (RFK, 2024, PIC)

	<ol style="list-style-type: none"> 11. Photobioreactor Innovation in Reducing Carbon Emissions by Utilizing Wastewater for High Protein Animal Feed Production (RGUI, 2024. Member) 12. Productivity of <i>Indigofera zollingeriana</i> Mutant 2 Resulting from Gamma Irradiation under Salinity Stress and Different Defoliation Times Planted in 13. Coastal Areas (PTM Dikti, 2024, Chair) 14. <i>Indigofera zollingeriana</i> Feed Crop Engineering through Gamma Irradiation Technology for Resilience in PT. Vale Indonesia Tbk Nickel Post-Mining Land (RFK, Ristekdikti, 2025, PIC)
<p>Industry collaborations over the last 5 years / Kolaborasi dengan industry 5 tahun terakhir</p>	<ol style="list-style-type: none"> 1. PT Raja Pakan on independent research collaboration on feed formulation using local ingredients with <i>Aspergillus niger</i> fermentation (2020 -2021) 2. PT Raja Pakan on making feed pellets made from <i>Indigofera zollingeriana</i> green concentrate by fermenting agricultural waste using <i>Aspergillus niger</i> (2022-2023) 3. Al Fatih Ranch, joint service on making complete feed and testing <i>Indigofera</i> green concentrate pellets (2023)
<p>Patents and proprietary rights / Paten dan HKI</p>	<ol style="list-style-type: none"> 1. Haki Manual for Making Multipurpose Liquid Organic Fertilizer
<p>Important publications over the last 5 years / Publikasi penting 5 tahun terakhir</p>	<ol style="list-style-type: none"> 1. Assessing the effectiveness of biostarter formulated from rumenbacteria of buffalo: effects on chemical components of the corn tumpi, <i>Journal of Critical Reviews</i> Vol 7(13) 2020 ;203-207 2. Isolation, Characterization and Identification of Phosphate Solubizing Bacteria (PSB) In Natural Farming Paddy Soil in Salassae Village, Bulukumba Regence,. <i>International Journal of Pharmaceutical Research</i> Vol 3 (2), 3535 – 3540p. 3. Performance of Transgenic Chrysanthemum Harboring Wasabi Defensin Gene for White Rust Disease Resistance, <i>HAYATI Journal of Biosciences</i>, https://doi.org/10.4308/hjb.29.5.621-631

	<ol style="list-style-type: none"> 4. Productivity of <i>Indigofera zollingeriana</i> Mutant 2 Result Gamma Irradiation planted in Coastal Areas. <i>Jurnal hajas.v5i2.26916</i> 5. Morphological Response of <i>Indigofera zollingeriana</i> Mutant 2 Plants Hasanuddin J. Anim. Sci. DOI: 10.20956/hajas.v5i2.26916 6. Nutrient value in leaves <i>Indigofera zollingeriana</i> irradiated by gamma Rays. <i>International Journal of Chemical and Biochemical Sciences (IJCBS)</i>, 25(19) (2024): 773- 778 7. Nutrient value in leaves <i>Indigofera zollingeriana</i> irradiated by gamma Rays. <i>International Journal of Chemical and Biochemical Sciences (IJCBS)</i>; 25 (19) (2024): 411-415. 8. Physiological Response Mutant 1 (M1) <i>Indigofera zollingeriana</i> at Various Gamma Irradiations (BIO Web of Conferences <i>ISISM 2024</i> 177, 05002 (2025) https://doi.org/10.1051/bioconf/202517705002 <i>ISISM 2024</i> 9. Early growth of seedling <i>Indigofera zollingeriana</i> mutant 2 base on various dose gamma ray and salinity stress (JIIP- Accepted)
<p>Activities in specialist bodies over the last 5 years / Aktifitas berkaitan dengan bidang keahlian dalam 5 tahun terakhir (contoh: menjadi narasumber, tenaga ahli dll.)</p>	<ol style="list-style-type: none"> 1. Resource person at the Public Consultation of the Ranperda Organic Agriculture System of the South Sulawesi Provincial DPRD; Academic Review of Integrated Organic Agriculture, Sungguminasa, May 30, 2021 2. Expert staff on the Management of Research and Education of the Bidadari Halmahera Forest in the UNKHAIR Special Area and Purpose, Ternate, 2023 -2028 3. Resource person at the PROKPATANI National Webinar Ep. 960; Agriculture Sector in Realizing SDGS 2030, July 11, 2023 4. Resource person for Technical Guidance on Socialization of Household Waste Management at the District Level to learn the sorting of organic and non-organic waste in Takalar Regency, November 3, 4 and 11, 2023

	<p>5. Resource person at the Urban Farming Seminar on Lifestyle and Business Urban Farming Solutions DPD Pemuda Tani HKTI South Sulawesi, June 5, 2023.</p>
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