

DAFTAR PUSTAKA

- Abdein, M., Imrahim, A., Mohamed, S., Osman, S., Shamseldin, S., Maklad, M., Abdel-Salam, M., and Qaoud, E.-S. (2022). RAPD Markers are Associated with Self-incompatibility Characteristics as Related to the Number of Seeds per Fruit of Some Mandarin and Clementine Cultivars. *Egyptian Journal of Horticulture*, 49(2): 215-230. <https://doi.org/10.21608/ejoh.2022.155513.1206>
- Adlini, M.N. dan Umaroh, H.K., (2020). Karakterisasi Tanaman Jeruk (*Citrus sp.*) Di Kecamatan Nibung Hangus Kabupaten Batu Bara Sumatera Utara, *KLOROFIL*, 4(1): 1-7.
- Agustina, A., Hasanuddin, Nurmaliah, C. (2021). Hubungan Kekerabatan Fenetik 7 Spesies Jeruk di Dataran Tinggi Bener Meriah. *Jurnal Jeumpa*. 8(2): 545-553.
- Al-Khayri, J. M., Mahdy, E. M. B., Taha, H. S. A., Eldomiaty, A. S., Abd-Elfattah, M. A., Latef, A. A. H. A., Rezk, A. A., Shehata, W. F., Almaghasla, M. I., Shalaby, T. A., Sattar, M. N., Ghazzawy, H. S., Awad, M. F., Alali, K. M., Jain, S. M., and Hassanin, A. A. (2022). Genetic and Morphological Diversity Assessment of Five Kalanchoe Genotypes by ScoT, ISSR and RAPD-PCR Markers. *Plants*. 11(13). <https://doi.org/10.3390/plants11131722>
- Andayani, Sri. (2019). Karakterisasi Morfologi Sumber Daya Genetik Jeruk Dalam Pengujian Kemurnian Varietas. *Prosiding Temu Teknis Jabatan Fungsional Non Peneliti*. Malang: 81-89
- Adlini, M. N., dan Umaroh, H. K. (2020). Karakterisasi Tanamna Jeruk (*Citrus sp.*) Di Kecamatan Nibung Hanus Kabupaten Batu Bara, Sumatera Utara. *Klorofil*. 4(1).
- Ahmad, I., Adilham, Karma, Andryanto, A., Makkulau, A. R. 2023. Penerapan Teknologi Proses Pengolahan Jeruk Keprok Menuju Agrowisata Jeruk Keprok Selayar. *Jurnal Pengabdian Masyarakat*. 6(2): 266-274
- Andriana, Aprilia Sri. (2022). Identifikasi Karakter Morfologi dan Kandungan Minyak Atsiri pada Empat Jenis Jeruk (*Citrus sp.*) Lokal Riau Sentral Kampar. *Skripsi*. Fakultas Pertanian, Universitas Islam Riau.
- Arif, Nurul Afriana. 2021. Karakterisasi Morfologi dan Genetik Jeruk Keprok Selayar *Citrus reticulata Blanco* Asal Kabupaten Selayar dan Kabupaten Bantaeng Dengan Marka Molekuler *Simple Sequence Repeat (SSR)*. *Tesis*. Fakultas Ilmu Alam, Universitas Hasanuddin.



- Basundari, F.R.A. (2016). Tinjauan Penggunaan Marka DNA Untuk Seleksi Ketahanan Penyakit Tanaman. *Buletin-Infotek* 2(2): 43-50.
- Bhuiyan, M., Malek, M., Bhuiyan, S., Islam, M., & Hassan, A. (2019). Mutation Determination of Rice by Using RAPD Primers. *International Journal of Agricultural Research, Innovation and Technology*, 9(1), 1–7. <https://doi.org/10.3329/ijarit.v9i1.42942>
- Borakaj, M., Cara, L., Qafmolla, L., & Berxholi, K. (2015). Genetik And Filogenetik Characterization of Some Newcastle Strains Isolated from Poultry in Albania. *Albanian Journal of Agricultural Sciences*. 14(2): 186-191.
- Devy, N. F., dan Hardiyanto. (2017). Keragaman Jeruk Gunung Omeh (*Citrus nobilis* Lour.) Di Sumatera Barat Berdasarkan Marka RAPD. *Jurnal Horti*. 27(2): 155-164
- Dhaliwal, J, S, HS., Thakur, A., Shunneja, P., Sidhu, GS., and Singh Rohtas. (2017). Morphological and Genetic Diversity in Citrus Genotypes to Substantiate Rootstock Breeding for Root Rot Resistance. *Indian Journal Hort*. 74(3): 326-333
- Didimus, RO., Purwito, A., Harp, AF., Husni, A., Nugroho, K., Kosmiatin, M. (2023). Keragaan Dua Galur Jeruk Hasil Induksi Mutasi Terseleksi Huanglongbing di Lapangan dan In Vitro. *Prosiding Semnas PERHORTI*. Hal: 102-110. Padang, 09-10 Oktober.
- Dynrum, Yendar Fahluzi. 2023. Eksplorasi dan Karakterisasi Morfologi Tanaman Jeruk Keprok (*Citrus reticulata* L.) Varietas Pulau Tengah Di Kecamatan Keliling Danau, Kabupaten Kerinci, Jambi. *Skripsi*. Fakultas Pertanian, Universitas Andalas.
- Eid, M. (2019). RAPD Fingerprinting and Genetic Relationships of Some Wheat Genotypes. *International Journal of Genetics and Genomics*, 7(1), 1. <https://doi.org/10.11648/j.ijgg.20190701.11>
- Fadly Makmur, M., Halimah Larekeng, S., & Restu, M. (2020). Genetic Diversity of Eight Types of Bamboo Based on Random Amplified Polymorphic DNA (RAPD) Markers. 20(2).
- Hamouda, M. M., Saad-Allah, K. M., & Gad, D. (2022). Potential of Seaweed Extract on Growth, Physiological, Cytological and Biochemical Parameters of Wheat (*Triticum aestivum* L.) Seedlings. *Journal of Soil Science and Plant Nutrition*, 1831. <https://doi.org/10.1007/s42729-022-00774-3>
- Yani, J.I., Dasumiati. (2015). Isolasi dan Amplifikasi DNA Keladi (*Amomum flagelliform*) untuk Identifikasi Keragaman Genetik. *Jurnal Biosains Indonesia*. 2(2): 42-48



- Huseynov, M., Suleymanova, Z., Ojaghi, J., & Mammadov, A. (2022). Characterization and Phylogeny Analysis of Azerbaijan Tea (*Camellia sinensis* L.) Genotypes by Molecular Markers. *Cytology and Genetics*, 56(3), 285–291. <https://doi.org/10.3103/S0095452722030057>
- Ikhsani, Salsabila Fitra. (2023). Identifikasi, Karakterisasi dan Intensitas Penyakit Blendok Batang Jeruk Keprok (*Citrus reticulata* L.). *Skripsi*. Fakultas Pertanian, Universitas Lampung.
- Kahnouji, Z., G.-R. S.-S., & Sassan, H. A. (2017). The Genetic and Phytochemical Diversity of Four Populations of Lemongrass (*Cymbopogon olivieri*) from Southeast Iran. In *Journal of Applied Biotechnology Reports Original Article Journal of Applied Biotechnology Reports* (Vol. 4, Issue 3).
- Langga, I.F., Restu, M., Kuswinanti T. (2012). Optimalisasi Suhu Dan Lama Inkubasi Dalam Ekstraksi DNA Tanaman Bitti (*Vitex cofassus* Reinw) Serta Analisis Keragaman Genetik Dengan Teknik RAPD-PCR. *Jurnal Sains dan Teknologi*. 12(30): 265-276.
- Larekeng, S. H., Dermawan, R., Iswoyo, H., & Mustari, K. (2019). RAPD Primer Screening for Amplification on Katokkon Pepper from Toraja, South Sulawesi, Indonesia. *IOP Conference Series: Earth and Environmental Science*, 270(1). <https://doi.org/10.1088/1755-1315/270/1/012023>
- Mahfudhoh, F., M. (2018). Keragaman Genetik Aksesi Jeruk Keprok (*Citrus reticulata* L.) Berdasarkan Penanda Morfologi Daun dan Molekuler *Inter Simple Sequence Repeats* (ISSR). *Skripsi*. Fakultas Sains dan Teknologi. Universitas Islam negeri Maulana Malik Ibrahim, Malang.
- Majeed, D. M., Ismail, E. N., Al-Mishhadani, I. I., & Sakran, N. M. (2018). Assessment of Genetic Diversity Among Wheat Selected Genotypes and Local Varieties for Salt Tolerance By Using RAPD and ISSR Analysis. *Iraqi Journal of Science*, 59(1), 278–286. <https://doi.org/10.24996/IJS.2018.59.1B.5>
- Majumder, B., Das, S., Mukhopadhyay, S., & Biswas, A. K. (2019). Identification of arsenic-tolerant and arsenic-sensitive rice (*Oryza sativa* L.) cultivars on the basis of arsenic accumulation assisted stress perception, morpho-biochemical responses, and alteration in genomic template stability. *Protoplasma*, 256(1), 193–211. <https://doi.org/10.1007/s00709-018-1290-5>
- Maleita, C. M., de Almeida, A. M. S. F., Vovlas, N., & Abrantes, I. (2016). Morphological, Biometrical, Biochemical, And Molecular Characterization of Root-Knot Nematode Meloidogyne Megadora. *Plant Disease*, 100(10), 1728–1734. <https://doi.org/10.1094/PDIS-01-16-0112-RE>
- Man, S. K., Srikanth, M., Shivaprasad, M. K., & Karthik Reddy, P. (2017). Molecular Characterization of Fenugreek (*Trigonella foenum-graecum*) Genotypes Using Rapd Markers. *International Journal of Microbiology and Applied Sciences*, 6(6), 2573–2581. <https://doi.org/10.20546/ijcmas.2017.606.306>



- Martasari, C., dan Arry, S. (2005). *Jeruk Keprok Tropika Indonesia: Keragaman Kultivar dan Karakter, Sentra Produksi dan Teknologi Inovasinya*. Prosiding Seminar Nasional Jeruk Tropika Indonesia.
- Maxiselly, Y., Carsono, N., dan Karuniawan, A. (2015). Hubungan Kekerabatan Plasma Nutfah Talas Lokal Jawa Barat dengan Analisis Klustering berdasarkan Karakter Morfologi. *Zuriat*. 20(2).
- Mira, S., Pirredda, M., Martín-Sánchez, M., Marchessi, J. E., & Martín, C. (2020). DNA Methylation and Integrity in Aged Seeds and Regenerated Plants. *Seed Science Research*. <https://doi.org/10.1017/S0960258520000021>
- Mohammed, I. A., & Mohamed, I. A. (2019). Validation of RAPD and ISSR Markers Used for Sex Determination in Date Palm Grown under Sudan Conditions. *Advanced Research in Life Sciences*, 3(1), 17–22. <https://doi.org/10.2478/arls-2019-0005>
- Muhajirah, E., Kamal, M. M., Butet, N. A., & Wibowo, A. (2021). Genetic diversity of giant Snakehead (*Channa micropeltes*) populations using Random Amplified Polymorphic DNA (RAPD) meltings in Sebangau National Park, Central Kalimantan. *Jurnal Pengelolaan Sumberdaya Alam Dan Lingkungan*, 11(1), 141–151. <https://doi.org/10.29244/jpsl.11.1.141-151>
- Murtadlo, A. A. A. (2018). Hubungan Kekerabatan dan Biogeografi Pisang Raja (*Musa Paradisiaca L.*) di Pulau Jawa Berdasarkan Gen RBCL (*larga subunit ribulose 1,5 biphosphat carboxylase/oxygenase*). Skripsi. UIN Maulana Malik Ibrahim, Malang.
- Mutiara Sari, R., Achyar, A., Ahda, Y., & Hilda Putri, D. (2022). Original Research Genotyping of Sumatera Local Variety of Citrus Using Random Amplified Polymorphism DNA (RAPD) technique. 2(2). <https://ojs.genetikawan-muda.com/index.php/tg>
- Narasimhulu, R., Kenchanagoudar, P. V., & Gowda, C. (2013). Molecular Diversity Among Selected Groundnut (*Arachis hypogaea L.*) Genotypes I: RAPD Analysis. In *The Andhra Agric. J* (Vol. 60, Issue 2).
- Nikmah, I. A., Azrianingsih, R., dan Wahyudi, D. (2016). Genetik Diversity of Porang Populations (*Amorphophallus Muelleri Blume*) In Central Java and West Java Based on LEAFY Second Intron Marker. *Journal of Tropical Life Science*. 6(1): 23–27



Analisis Genetik Karakter Morfo-Agronomi Jarak Pagar Hasil erbasis Pendekatan Kuantitatif dan Molekuler. *Tesis*. Institut gor, Bogor.

aan dan Sastro Y. 2020. Kesesuaian Lahan Tanaman Jeruk Di Kabupaten Kepahiang, Bengkulu. *Agrista: Jurnal Ilmiah Agribisnis UNS*. 4(1): 238-250

- Pangestika, I. W., Susilowati, A., & Purwanto, E. (2021). Genetic Diversity of Coffea *Caneephora* Pierre Ex A. Froehner in Temanggung District, Indonesia Based on Molecular Marker RAPD. *Biodiversitas*, 22(11), 4775–4783. <https://doi.org/10.13057/biodiv/d221109>
- Peilouw, K. J., Hiariej, A., & Pesik, A. (2022). Genetic Variability of Galoba Durian (*Amomum* spp) Center Mollucas and North Halmahera Based on RAPD. *Jurnal Penelitian Pendidikan IPA*, 8(2), 579–583. <https://doi.org/10.29303/jppipa.v8i2.1353>
- Poerba, Y. S., & Martanti, D. (2008). Genetik variability of Amorphophallus muelleri Blume in Java based on Random Amplified Polymorphic DNA. *Biodiversitas Journal of Biological Diversity*. 9(4): 245–249.
- Pratiwi, Yulian. (2021). Pengembangan Majala Karakterisasi Morfologi Tanaman Jeruk Keprok terigas (*Citrus reticulata* Blanco) Di Wisata Petik Jeruk Mekarsari Kabupaten Blitar. *Skripsi*. Fakultas Tarbiyah dan Ilmu Keguruan, Institut Agama Islam Negeri Tulungagung, Blitar.
- Probojati, R. T., Wahyudi, D., Hapsari, L. 2019. Clustering Analysis and Genome Inference of Pisang Raja Local Cultivars (*Musa* spp.) from Java Island by Random Amplified Polymorphic DNA (RAPD) Marker. *Journal of Tropical Biodiversity and Biotechnology*. 4(2): 42-53.
- Raheem Lateef Al-Awsi, G., Khamis, A. S., Tolaifeh, Z. A., Isam Jameel, Z., & Shaker, Z. (2018). RAPD-PCR Is a Good Dna Fingerprinting Technique to Detect Phylogenetic Relationships Among *Staphylococcus Aureus* Isolated from Different Sources in Hilla City, Iraq. *Biochem. Cell. Arch*, 18, 1157–1161. <https://www.researchgate.net/publication/328354772>
- Saclain, S., Latif, M. A., Bala, B., Mallik, M., & Islam, M. S. (2016). Genetic Diversity Analysis of Tropical Sugar Beet (*Beta vulgaris* L.) Varieties in Bangladesh Using RAPD markers. *Genetika*, 48(1), 151–164. <https://doi.org/10.2298/GENS1601151S>
- Sasikala, T. P., & Kamakshamma, J. (2015). Genetic diversity assesed trough RAPD markers in *Syzygium Alternifolium* (WT) Walp. *International Journal of Pharmacy and Pharmaceutical Science*. 7: 137–140.
- Salem, K. F. M., Elabsawy, E. A., Khidr, Y. A., & Elshamy, H. (2021). Assessment Genetic Diversity Among Some Egyptian Bread Wheat (*Triticum aestivum* L.) Cultivars Using RAPD Markers. *Journal of Genetic and Environmental Conservation*, 2021(1), 168–175.
-  , D., Zanetta, C.U, dan Waluyo, B. 2018. Keanekaragaman motif dan Penentuan Keragaman Karakter Agro-Morfologi (*Triticum aestivum* L.). *Jurnal Agro*. 5(2): 127-139
- f, N., Naseer, M., Khan, M, N., Noreen, A., Din, S, U., Akhtar, M, Z., Asif, M., Faiz, H., Nasi, M., Aslam, K., and Mehren, N. Optimization Software: www.balesio.com

- (2022). A Morpho-Biochemical Perspective on Sixteen Promising Sweet Orange (*Citrus sinensis* (L.) Osbeck) Cultivars. *Plant Cell Biotechnology and Molecular Biology*. 23 (13&14): 69-87.
- Singh, A., & Barkule, S. (2018). Application Of DNA Marker (RAPD) Technology to Study Molecular Diversity In Adenium Obesum (Forssk), Roem And Schult. <https://www.researchgate.net/publication/334761331>
- Sofiyanti, N., Iriai, D., Wahyui, P.I., Idani, N., Lestari, P. (2022). Identification, Morphology of *Citrus* L. (Aurantioideae-Rutaceae Juss.) and its Traditional Uses in Riau Province, Indonesia. *Biodiversitas*. 23(2): 1038-1047
- Srideni, D. (2019). Panduan Lengkap & Praktis Budidaya Jeruk Yang Paling Menguntungkan. Jakarta: Garuda Pustaka.
- Suhaeni, Neni. 2016. *Petunjuk Praktis Menanam Jeruk*. Bandung: Nuansa Cendekia
- Tewari, S. K., Tewari, L., Dubey, A., Kumar, A., Kumar, N., & Kaushal, R. (2022). Use of the RAPD Marker To Determine the Genetic Diversity of Various *Dalbergia sissoo* Roxb. (Shisham) Genotypes and Their Evolutionary Relationship in Indian Subcontinents. *Vegetos*. <https://doi.org/10.1007/s42535-021-00334-7>
- Vasht, D., Dwivedi, S. K., Singh, Y., Samaiya, R. K., Babbar, A., Pooniya, S. K., & Kumar, V. (2019). Molecular Characterization of Heat Tolerance Chickpea (*Cicer arietinum* L.) Genotypes Using Random Amplified Polymorphic DNA (RAPD) Markers. *International Journal of Current Microbiology and Applied Sciences*, 8(07), 933–938. <https://doi.org/10.20546/ijcmas.2019.807.112>
- Wahyudi, D., Hapsari, L., & Sundari. (2020). RAPD Analysis for Genetic Variability Detection of Mutant Soybean (*Glycine max* (L.) Merr). *Journal of Tropical Biodiversity and Biotechnology*, 5(1), 68–77. <https://doi.org/10.22146/jtbb.53653>
- Yulianti, F., Palupi, N., E., dan Agisimanto, D. (2016). Keragaman Jeruk Fungsional Indonesia Berdasarkan Karakter Morfologi dan Marka RAPD. *Jurnal AgroBiogen*. 12(2): 91-100



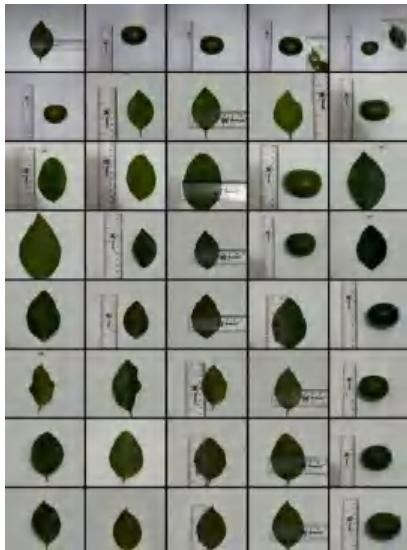
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LAMPIRAN

Tabel Lampiran 1. Data Kuantitatif Jeruk Keprok

No.	Nama Aksesi	Diameter Batang (cm)	Panjang Helai Daun (cm)	Lebar Helai Daun (cm)	Berat Buah (g)	Diameter Buah (cm)	Panjang Buah (cm)
1.	SI01	20.4	8	4.2	57	5.1	4.1
2.	SI02	19	7.5	3.5	107	6.1	6.5
3.	SI03	27.4	10.4	5.1	65	5.1	5.5
4.	SI04	25	7.7	3.5	80	5.5	4
5.	SI05	20.5	8	4.3	58	5	4.5
6.	SI06	22.2	6.8	3.9	105	6	5.7
7.	SI07	23.4	7.9	4.1	66	5.2	5.5
8.	SI08	22.1	7.5	3.5	77	5.4	5
9.	SI09	24.1	7.8	4.3	72	5.4	4.5
10.	SI10	23.3	8.9	4	65	5	4.5
11.	MI01	14.5	7.5	3.2	85	5.7	4
12.	MI02	10	10	4.3	100	6.1	5
13.	MI03	15.4	9	3.5	84	4.8	5
14.	MI04	16.2	9	3.7	97	5.7	6
15.	MI05	15	9	4	70	5.3	4.6
16.	MI06	17	10	3.7	77	5.4	5
17.	MI07	13.1	10.5	3.5	77	5.4	5
18.	MI08	14.1	9.1	3.8	88	5.5	5
19.	MI09	18.4	10	3.9	89	5.6	5
20.	MI10	17.5	10.5	3.5	108	5.9	5
21.	GR01	11.3	6.2	3.8	136	6.8	7
22.	GR02	12.3	7.4	3.5	113	6.5	5
23.	GR03	13.4	7.8	3.4	214	7.9	6.5
24.	GR04	13.4	7.4	3.8	137	6.6	6.5
25.	GR05	10.7	7.9	3.6	132	6.7	5.7
26.	GR06	16.7	8.6	3.8	177	7.2	6
27.	GR07	14.5	9	4	118	6.5	5
28.	GR08	14.2	8.2	3.4	122	6.5	5.3
29.	GR09	14.6	8.5	3.5	127	6.6	5.7
30.	GR10	12.5	8.7	3.6	116	6.4	5
31.	SM01	7	7.5	3.8	91	5.7	5.4
32.	SM02	8.3	7.8	3.8	87	5.6	4.8
33.	SM03	8.9	6.7	3.5	103	6	5.3
34.	SM04	6.5	7	3.9	109	6.2	5.7
35.			7.5	3.6	105	6	5
36.			7	3.5	84	5.6	5.4
37.			6.7	3.8	138	6.7	5.5
38.			8	4.1	78	5.7	4.5
39.			7.9	4.5	77	5.3	4.7
40.			6	3.1	66	5.1	4.5

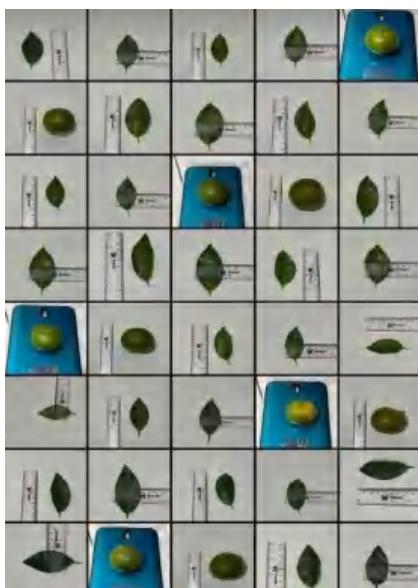




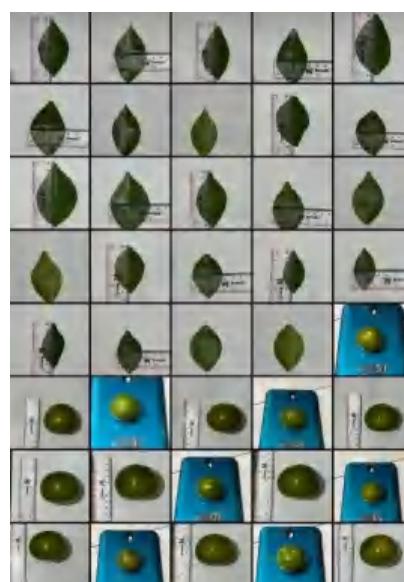
(a)



(b)



(c)



(d)

n 1. (a). Dokumentasi Pengamatan Karakter Morfologi Jeruk Di Kab. Kep. Selayar, (b) Pengamatan Karakter Morfologi Jeruk Di Kota Batu (c) Pengamatan Karakter Morfologi Jeruk Di Kab. Kep. Garut, (d) Pengamatan Karakter Morfologi Jeruk Di Kab. Sumedang





(a)



(b)



(c)



(d)

Gambar Lampiran 2. Dokumentasi Kegiatan Laboratorium, (a) Tahap Persiapan alat dan bahan, (b) tahap pembuatan MIX DNA, (c) pembuatan gel elektroforesis, (d) *running DNA* pada elektroforesis



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RIWAYAT HIDUP



Penulis bernama Nur Islamiah Asmita, lahir di Benteng Jampea Kabupaten Kepulauan Selayar pada tanggal 23 September 2002. Anak ke-5 dari pasangan bapak Tallak, S.Pd dengan Ibu Sitti Fatimah, S.Pd. Penulis telah menempuh pendidikan mulai dari TK Adituka Plan (2007-2008), UPT SD Inpres Benteng Timur (2008-2014), SMP Negeri 1 Benteng (2014-2017), MAN Kep. Selayar (2017-2020) hingga ketingkat perguruan tinggi di Universitas Hasanuddin, Fakultas Pertanian program studi Agroteknologi (2020-2024).

Penulis juga aktif dalam kegiatan berorganisasi baik intra kampus (Himagro Faperta Unhas, Kelompok Penalaran Ilmiah Pertanian (KM. PILAR), UKM Bulutangkis (UKMB) Unhas) juga ekstra kampus (Sekolah Inspirasi Alam (SIA)) guna menunjang pendidikan penulis. Selain itu, penulis juga pernah mengikuti kegiatan magang kultur jaringan, asisten praktikum (Ilmu Teknologi Benih (ITB), biokimia tanaman). Penulis juga pernah meraih medali perak cabang lomba biologi oleh Pusat Olimpiade Sains Indonesia (POSI) tahun 2022 dan penerima pendanaan PMW pada tahun 2023. Penulis mampu menyelesaikan masa studi atas bantuan dana dari Kemendikbud melalui program beasiswa unggulan (BU).



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