

DAFTAR PUSTAKA

- Achmad, A., Amri, A., Achmad, S., & Utami Batari Putri, A. (2020). Strategy of Ecotourism Development in Matano Lake, East Luwu Regency, South Sulawesi. *Perennial*, 16(1), 26–33. <http://dx.doi.org/10.24259/perennial.v16i1.7631>
- Abdullah, A., H.A. Sativa, T. Nurhayati dan M. Nurimala (2019). Pemanfaatan DNA Barcoding untuk Ketertelusuran Label Berbagai Produk Olahan Ikan Berbasis Surimi Komersial. *Jurnal Pengelolaan Hasil Perikanan Indonesia*. 22(3): 508-519.
- Adhityatama, S., Triwujani, R., Suryataman, Sulistyarto, P. H., & Utomo, B. B. (2017). Underwater Archaeological Study on Prehistoric Material Culture in Matano Lake, South Sulawesi, Indonesia. *Journal of Southeast Asian Archaeology*, 37(January 2017), 37–49.
- Akbar, N., Aris, M., Irfan, M., Tahir, I., & Baksir, A. (2018). Kajian Filogenetik Ikan Tuna (*Thunnus* Spp) Sebagai Data Pengelolaan Di Perairan Sekitar Kepulauan Maluku, Indonesia. *Jurnal Kelautan: Indonesian Journal of Marine Science and Technology*, 11(2), 120. <https://doi.org/10.21107/jk.v11i2.3459>
- Baksir, A., Akbar, N., & Ismail, F. (2022). Keragaman Genetik dan Filogenetik Kepiting Biola (*Uca* Spp.) di Pesisir Pantai Jailolo, Kabupaten Halmahera Barat. *Jurnal Kelautan Tropis*, 25(1), 57–69. <https://doi.org/10.14710/jkt.v25i1.12185>
- Briski, E., Cristescu, E., Bailey, S., & MacIsaac, H (2011). Use of DNA barcoding to detect invertebrate invasive species from diapausing eggs. *Bio-logical Invasions*, 13(6), 1325-1340
- Chadijah, A., Sulistiono, Haryani, G. S., Affandi, R., & Mashar, A. (2022). Karakteristik Habitat Ikan Opudi (*Telmatherina prognatha* Kottelat, 1991). *Oseanologi Dan Limnologi Di Indonesia*, 7(2), 65–74. <https://doi.org/10.14203/oldi.2022.v7i2.278>
- Chatrou, L.W., Pirie, M.D., Erkens, R.H.J., Couvreur, T.L.P., Neubig, K.M., Abbott, R.J., Mols, J.B., Maas, J.W., Saunders, R.M.K. & Chase, M.W (2012). A new subfamily and tribal classification of the pantropical flowering plant family Annonaceae informed by molecular phylogenetics, *Botanical Journal of Linnean Society* 169, 5-40.
- Chia, O. K. S., & Ng, P. K. L. (2006). The freshwater crabs of Sulawesi, with descriptions of two new genera and four new species (Crustacea: Decapoda: Brachyura: Parathelphusidae). *Raffles Bulletin of Zoology*, 54(2), 381–428.
- Crowe, S. A., O'Neill, A. H., Katsev, S., Hehanussa, P., Haffner, G. D., Sundby, B., Mucci, A., & Fowle, D. A. (2008). The biogeochemistry of tropical lakes: A case study from Lake Matano, Indonesia. *Limnology and Oceanography*, 53(1), 319–331. <https://doi.org/10.4319/lo.2008.53.1.0319>
- Cumberlidge N, Ng P K L. 2009. Systematics, evolution, and biogeography of the freshwater crabs. In: Martin, J.W., Crandall, K.A., Felder, D. (Eds.), *Crustacean Issues: Advances in Decapod Crustacean Phylogenetics*, CRC Press. Leiden.

- Dharmayanti, N. L. P. I (2011). Filogenetika Organisme Berdasarkan taksonomi Sejarah Evolusi. *wartazoa*. 21(1), 1-10.
- Dawidek, J., & Ferencz, B. (2024). Water Renewal Time in Lakes with Transformed Water Distribution in the Catchment Areas. *Water (Switzerland)*, 16(3). <https://doi.org/10.3390/w16030384>
- Eprilurahman, R., Baskoro, W.T. & Trijoko. 2015. Keanekaragaman Jenis Kepiting (Decapoda: Brachyura) di Sungai Opak, Daerah Istimewa Yogyakarta. *Biogenesis*, vol. 3, no. 2, hal. 100-108.
- Folmer, O., Black, M., Hoeh, W., Lutz, R., & Vrijenhoek, R. (1994). DNA primers for amplification of mitochondrial cytochrome c oxidase subunit I from diverse metazoan invertebrates. In *Molecular Marine Biology and Biotechnology* (Vol. 3, Issue 5).
- Gani, A., Afif Bakri, A., Tetra Adriany, D., Serdiati, N., Herjayanto, M., Nur, M., Heksa Satria, D., Julianto Opi, C., & Iqbal Adam, M. (2020). Hubungan Panjang-Bobot dan Faktor Kondisi Ikan *Sicyopus zosterophorum* (Bleeker, 1856) di Sungai Bohi, Kabupaten Banggai, Sulawesi Tengah Length-weight. Prosiding Simposium Nasional VII Kelautan dan Perikanan 2020 Fakultas Ilmu Kelautan dan Perikanan. In *Universitas Hasanuddin*.
- Gultom, N., Badaruddin, B., & Kadir, S. (2022). Analisis Debit Air Di Daerah Tangkapan Air (DTA) Barabai Kabupaten Hulu Sungai Tengah. *Jurnal Sylva Scientae*, 5(5), 711. <https://doi.org/10.20527/jss.v5i5.6693>
- Haase, M., Von rintelen, T., Harting, B., Marwoto, R., & Glaubrecht, M. (2023). New species from a 'lost world': Sulawesidrobia (Caenogastropoda, Tateidae) from ancient Lake Matano, Sulawesi, Indonesia. *European Journal of Taxonomy*, 864, 77–103. <https://doi.org/10.5852/ejt.2023.864.2089>
- Hadiaty, R., & Wirjoatmodjo, S. (2002). Preliminary study: Biodiversity and distribution of fishes in Lake Matano, South Sulawesi. *Jurnal Iktiologi Indonesia*, 2(2), 23–29.
- Hatta, E., Manaf, M., & Alimuddin, I. (2022). Analisis Pengaruh Sektor Pertambangan Terhadap Kawasan Permukiman Kabupaten Luwu Timur. *Urban and Regional Studies Journal*, 5(1), 70–76. <https://doi.org/10.35965/ursj.v5i1.1971>
- Hebert, P. D. N., Cywinska, A., Ball, S. L., & DeWaard, J. R. (2003). Biological identifications through DNA barcodes. *Proceedings of the Royal Society B: Biological Sciences*, 270(1512), 313–321. <https://doi.org/10.1098/rspb.2002.2218>
- Hidayani, A. A., Fujaya, Y., & Dh Trijuno, D. (2020). Variasi Genetik Intrapopulasi Rajungan (*Portunus Pelagicus*) dari Kaimana, Papua Barat Indonesia Berdasarkan Sekuen Gen Sitokrom C Oksidase (CO1) Intrapopulated Genetic Variation Of The Blue Swimming Crab (*Portunus Pelagicus*) From Kaimana, West Papua Indon. *Torani: JFMarSci*, 3(2), 71–83.
- Hidayat, T. & Pancoro, A (2008). Kajian Filogenetika Molekuler dalam Menyediakan Informasi Dasar untuk Meningkatkan Kualitas Sumber Genetik Anggrek. *Jurnal Agrobiogen*, 4(1), 35-40.
- Hikam, A. M., Mubarakati, N. J., Dailami, M., Hamid, A., & Toha, A. (2021). DNA barcoding pada invertebrata laut DNA barcoding on marine invertebrates. *Biologi Udayana*, 1(25), 46–56.
- Hilgers, L., Herder, F., Hadiaty, R. K., & Pfaender, J. (2018). Alien attack: trophic interactions of flowerhorn cichlids with endemics of ancient Lake Matano

- (Sulawesi, Indonesia). *Evolutionary Ecology Research*, 19, 575–590.
- Junardi, J., Idola, I., & Setyawati, T. R. (2020). Morphometric of Freshwater crab *Parathelphusa maindroni* Rathbun, 1902 (Decapoda, Gecarcinucidae) from two habitat type in Gunung Palung National Park. *Bioscience*, 4(2), 140–150. <https://doi.org/10.24036/0202042109311-0-00>
- Jurniati, J., Arfianti, D., Andriyono, S., Hertika, A. maizar S., Kurniawan, A., & Tanod, W. A. (2020). The morphological characters and DNA barcoding identification of sweet river prawn *Macrobrachium esculentum* (Thallwitz, 1891) from Rongkong watershed of South Sulawesi, Indonesia. *Biodiversitas Journal of Biological Diversity*, 22(1). <https://doi.org/10.13057/biodiv/d220116>
- Keenan, C. P., Davie, P. J. ., & Mann, D. L. (1998). A Revision Of The Genus *Scylla* De Haan, 1833 (Crustacea: Decapoda: Brachyura: Portunidae). *The Raffles Bulletin Of Zoology*, 46(1), 217–245. <https://www.researchgate.net/publication/256107287>
- Kimura, M. (1980). A simple method for estimating evolutionary rates of base substitutions through comparative studies of nucleotide sequences. *Journal of Molecular Evolution*, 16(2), 111–120. <https://doi.org/10.1007/BF01731581>
- Kress, W. J. (2017). Plant DNA barcodes: applications today and in the future. *Journal of Systematics and Evolution*, 55(4), 291–307.
- Kusumadewi, Y., Widodo, R. M. W., Rahmawati, K., Pratama, B. A., Syah, G., Suriyanto, I., Randi, A., Petrus, S., & Rachmat, H. H. (2024). Endemic crabs from ancient Sulawesi lakes under double threat. *Oryx*, 58(1), 13–14. <https://doi.org/10.1017/s0030605323001242>
- Kusumaningsari, Sandra., B. Hendarto, dan Ruswahyuni. 2015. Kelimpahan Hewan Makrozobentos pada Dua Umur Tanam *Rhizopora* sp. Di Kelurahan Mangunharjo Semarang. *Diponegoro Jurnal if Maquares*. 4(2):58-64.
- Lima, R. A., Oliveira, A. A. D., Colletta, G. D., Flores, T. B., Coelho, R. L. G., Dias, P. & Chave, J. (2018). Can plant DNA barcoding be implemented in species-rich tropical regions? A perspective from São Paulo State, Brazil. *Genetics and molecular biology*. vol. 41(3): 661-670.
- Letunic, I., & Bork, P. (2021). Interactive tree of life (iTOL) v5: An online tool for phylogenetic tree display and annotation. *Nucleic Acids Research*, 49(W1), W293–W296. <https://doi.org/10.1093/nar/gkab301>
- Mahrus, & Syukur, A. (2020). Karakter Morfologi dan Identifikasi Molekuler dengan Menggunakan Marka Gen 12S rRNA pada Ikan Baronang (*Siganus spp.*) di Perairan Laut Selatan Pulau Lombok Morphological and Molecular Characters Identification with a Marker of 12S. *Jurnal Sains Teknologi & Lingkungan*, 6(1), 105–115.
- Meyer, C. P., & Paulay, G. (2005). DNA barcoding: Error rates based on comprehensive sampling. *PLoS Biology*, 3(12), 1–10. <https://doi.org/10.1371/journal.pbio.0030422>
- Ng, P. K. L., Riady, R., & Windarti. (2016). *Parathelphusa pardus*, a new species of lowland freshwater crab from swamps in central Sumatra, Indonesia (Crustacea: Brachyura: Gecarcinucidae). *Zootaxa*, 4084(4), 495–506. <https://doi.org/10.11646/zootaxa.4084.4.2>.
- Ng, PKL. 2004. Crustacea: Decapoda: Brachyura, in Yule, CM & Sen YH (eds), *FreshwaterInvertebrates of the Malaysian Region* (pp 311-336), Kuala Lumpur: Akademi SainsMalaysia.
- Omar, S. B. A., Hidayani, A. A., Yanuarita, D., Umar, M. T., & Andriyono, S. (2021).

- Phylogenetic Analysis of Endemic Fish from the Maros Karst Region, South Sulawesi, Indonesia. *International Journal of Agriculture and Biology*, 26(6), 661–666. <https://doi.org/10.17957/IJAB/15.1880>
- Otim MH, Tay WT, Kanyesigye D, Adumo S, Abongosi J, Ochen S, Seumaga J, Alibu S, Abalo G, Agona A. (2018). Detection of sister species in invasive populations of the fall armyworm *Spodoptera frugiperda* (Lepidoptera: Noctuidae) from Uganda. *PLOS ONE* 13 (4): e0194571. DOI: 10.1371/journal.pone.0194571.
- Pangsuma, N. S., & Hidayat, T. (2023). The Urgency Of Understanding Taxonomy In Learning Biology. *Biodik: Jurnal Ilmiah Pendidikan Biologi*, 9(4), 95–110. <https://doi.org/10.22437/biodik.v9i4.31092>
- Paransa, D. S. J., Kemer, K., Kepel, R. C., Mantiri, D. H. M., & Kolondam, B. J. (2024). Morphological and molecular identification of *Metopograpsus* crab caught from the coast of Tambala Village, North Sulawesi, Indonesia. *Fisheries and Aquatic Sciences*, 27(7), 411–420. <https://doi.org/10.47853/FAS.2024.e39>
- Poettinger, T., & Schubart, C. D. (2014). Molecular diversity of freshwater crabs from Sulawesi and the sequential colonization of ancient lakes. *Hydrobiologia*, 739(1), 73–84. <https://doi.org/10.1007/s10750-013-1643-1>
- Prehadi, Sembiring, A., Kurniasih, E. M., Rahmad, Arafat, D., Subhan, B., & Madduppa, H. H. (2015). DNA barcoding and phylogenetic reconstruction of shark species landed in muncar fisheries landing site in comparison with southern Java fishing port. *Biodiversitas*, 16(1), 55–61. <https://doi.org/10.13057/biodiv/d160107>
- Pirie, M.D., Vargas, M.P.B., Botermans, M., Bakker, F.T. & Chatrou, L.W., (2007). Ancient paralogy in the cpDNA trnL-F region in Annonaceae: implications for plant molecular systematics, *American Journal of Botany* 94(6), 1003-1016.
- Rasmussen RS, Morrissey MT, Hebert PDN (2009) DNA barcoding of commercially important salmon and trout species (*Oncorhynchus* and *Salmo*) from North America. *Journal of Agricultural and Food Chemistry* 57 (18): 8379-8385.
- Rintelen, T. von, Rintelen, K. von, Glaubrecht, M., Schubart, C. D., & Herder, F. (2012). Aquatic biodiversity hotspots in Wallacea: In *Biotic Evolution and Environmental Change in Southeast Asia* (pp. 290–315). Cambridge University Press. <https://doi.org/10.1017/cbo9780511735882.014>
- Saleky, D., Supriyatin, F. E., & Dailami, M. (2020). Pola Pertumbuhan dan Identifikasi Genetik Turbo setosus Gmelin, 1791 [Turbinidae, Gastropoda]. *Jurnal Kelautan Tropis*, 23(3), 305–315. <https://doi.org/10.14710/jkt.v23i3.7514>
- Sanger, F., Nicklen, S., & Coulson, A. R. (1977). DNA sequencing with chain-terminating inhibitors. *Proceedings of the National Academy of Sciences of the United States of America*, 74(12), 5463–5467. <https://doi.org/10.1073/pnas.74.12.5463>
- Sari, V. K., & Restanto, D. P. (2022). Review Artikel: Metode Ekstraksi DNA Genom untuk Tanaman Tinggi Kandungan Polisakarida dan Metabolit Sekunder. *Agroteknika*, 5(2), 118–129. <https://doi.org/10.55043/agroteknika.v5i2.155>.
- Schubart, C., 2018a. *Nautilothelphusa zimmeri*, Malili flat crab. *IUCN Red List of Threatened Species*, e.T134323A109682617. doi: 10.2305/IUCN.UK.2018-2.RLTS.T134323A109682617.en.
- Schubart, C., 2018b. *Parathelphusa ferruginea*. *IUCN Red List of Threatened Species*, e.T134327A109682794. doi: 10.2305/IUCN.UK.2018-

- 2.RLTS.T134327A109682794.en.
- Schubart, C., 2018c. *Parathelphusa pantherina*, Matano leopard crab. *IUCN Red List of Threatened Species*, e.T134415A109682928. doi: 10.2305/IUCN.UK.2018-2.RLTS.T134415A109682928.en.
- Schubart, C., 2018d. *Syntripsa flavichela*, Towuti molluscivore crab. *IUCN Red List of Threatened Species*, e.T134942A109683110. doi:10.2305/IUCN.UK.2018-2.RLTS.T134942A109683110.en.
- Schubart, C., 2018e. *Syntripsa matannensis*, Matano molluscivore crab. *IUCN Red List of Threatened Species*, e.T135110A109683277. doi: 10.2305/IUCN.UK.2018-2.RLTS.T135110A109683277.en.
- Sentosa, agus arifin, Hediando, dimas angga, & Satria, H. (2018). *Dugaan eutrofikasi di Danau Matano ditinjau dari komunitas fitoplankton dan kualitas perairan*. January.
- Sentosa, A. A., Agus Hediando, D. H., & Satria, H. (2017). *Aspek Biologi Kepiting Endemik Di Danau Matano*. <https://www.limnotek.or.id>
- Sinaga, S., Maimunah, Y., Ekawati, A. W., & Widodo, M. S. (2024). The Impact of Artificial Barriers on the Varuna litterata Migration Route in the Lower Serayu River, Central Java and Its Molecular Identification. *Omni-Akuatika*, 20(1), 50. <https://doi.org/10.20884/1.oa.2024.20.1.1140>
- Song, F., Shi, L., Yao, F., Gu, Y., Zheng, D., Zhang, W., Liang, Y., Zhang, K., Yang, M., Wang, L., Sun, J., & Luo, J. (2022). The Effect of Background Color on Skin Color Variation of Juvenile Plectropomus leopardus. *Animals*, 12(23). <https://doi.org/10.3390/ani12233349>
- Subari, A., Razak, A., & Sumarmin, R. (2021). Phylogenetic Analysis of Rasbora spp. Based on the Mitochondrial DNA COI gene in Harapan Forest. *Jurnal Biologi Tropis*, 21(1), 89–94. <https://doi.org/10.29303/jbt.v21i1.2351>
- Sunaryo, W. (2015). Review: Aplikasi DNA Barcoding untuk Analisis Keragaman Genetik Lai-Durian (Durio zibethinus x kutejensis) Asal Kalimantan Timur. *Prosiding Seminar Nasional Masyarakat Biodiversity Indonesia*. 1(6): 1273-1277.
- Suranto, S. (2000). Application of Modern Experimental Technique to Solve Morphological Complexity in Plants Taxonomy. *Biodiversitas Journal of Biological Diversity*, 1(2), 80–84. <https://doi.org/10.13057/biodiv/d010207>
- Tamura, K., Stecher, G., & Kumar, S. (2021). MEGA11: Molecular Evolutionary Genetics Analysis Version 11. *Molecular Biology and Evolution*, 38(7), 3022–3027. <https://doi.org/10.1093/molbev/msab120>
- Triwujani, R., & Adhityatama, S. (2020). *Inovasi Budaya Besi Sulawesi: Upaya Arkeologi dalam Mewujudkan SDGs di Danau Matano, Sulawesi Selatan* (Susetyo Sukmawati (ed.)). Pusat Penelitian Arkeologi Nasional.
- Waugh, J. (2007). DNA barcoding in animal species: Progress, potential and pitfalls. *BioEssays*, 29(2), 188–197. <https://doi.org/10.1002/bies.20529>
- Wibosono S. 2008. Ekstrak Kepiting Sawah Juara I KIR Jateng .<http://suaramerdeka.com/v1/index.php/read/cetak/2008/11/22/40367/EkstrakKepiting-SawahJuara-I-KIR-Jateng>. diakses tanggal 12 Desember 2020.
- Wulandari, T., Ihsan, M., & Suprayogi, D. (2023). *Studi Pendahuluan : Kepiting Air Tawar (Parathelphusa maindora) di Kawasan Geopark Merangin Provinsi Jambi*. 3(1).

- Yang L, Tan Z, Wang D, Xue L, Guan M, Huang T, Li R. (2014). Species identification through mitochondrial rRNA genetic analysis. *Scientific Reports* 4: 4089.
- Zhang, D., Duan, L., & Zhou, N. (2014). Application of DNA barcoding in *Roscoea* (Zingiberaceae) and a primary discussion on taxonomic status of *Roscoea cautleoides* var. *pubescens*. *Biochemical Systematics and Ecology*, 52, 14–19. <https://doi.org/10.1016/j.bse.2013.10.004>.
- Zhou P., Yang XL., Hu B., Zhang L., Zhang W., Si HR., Zhu Y., Li B., Chen J., Luo Y., Guo H., Jiang RD., Liu MQ., Chen Y., Shen XR., Wang X., Zheng XS., Zhao K., Chen QJ., Deng F., Yan B., Wang YY., Xiao GF., & Shi ZL. (2020). A Pneumonia Outbreak Associated With A New Coronavirus of Probable Bat Origin. *Nature*, 579, 270-273. Doi. 10.1038/s41586-020-2012-7.