

DAFTAR PUSTAKA

- Alexander Regio Widarto, I Nyoman Dodik Prasetya, & Gede Iwan Setiabudi. (2024). Impact of the COVID-19 Pandemic on the Management of Coral Aquaculture. *Advances in Tropical Biodiversity and Environmental Sciences*, 8(1), 33–39. <https://doi.org/10.24843/atbes.2024.v08.i01.p06>
- Amir, A., McDonald, D., Navas-Molina, J. A., Kopylova, E., Morton, J. T., Zech Xu, Z., Kightley, E. P., Thompson, L. R., Hyde, E. R., Gonzalez, A., & Knight, R. (2017). Deblur Rapidly Resolves Single-Nucleotide Community Sequence Patterns. *MSystems*, 2(2). <https://doi.org/10.1128/mSystems.00191-16>
- Amrullah, S. H., & Mar'iyah, K. (2023). Analisis Total Bakteri *Vibrio* Pada Sampel Air Tambak Udang Vaname Di Balai Perikanan Budidaya Air Payau Takalar. *Indigenous Biologi: Jurnal Pendidikan Dan Sains Biologi*, 6(1), 8–14. <https://doi.org/10.33323/indigenous.v6i1.380>
- Anderson, M. J. (2017). Permutational Multivariate Analysis of Variance (<scp>PERMANOVA</scp>). In *Wiley StatsRef: Statistics Reference Online* (pp. 1–15). Wiley. <https://doi.org/10.1002/9781118445112.stat07841>
- Asif, A., Chen, J.-S., Hussain, B., Hsu, G.-J., Rathod, J., Huang, S.-W., Wu, C.-C., & Hsu, B.-M. (2024). The escalating threat of human-associated infectious bacteria in surface aquatic resources: Insights into prevalence, antibiotic resistance, survival mechanisms, detection, and prevention strategies. *Journal of Contaminant Hydrology*, 265, 104371. <https://doi.org/10.1016/j.jconhyd.2024.104371>
- Avnimelech, Y. (2021). *Biofloc technology: A practical guide book* (4th ed.). The World Aquaculture Society.
- Baird, J., Jacob, C., Barker, M., Fall, C. H. D., Hanson, M., Harvey, N. C., Inskip, H. M., Kumaran, K., & Cooper, C. (2017). Developmental origins of health and disease: A lifecourse approach to the prevention of non-communicable diseases. In *Healthcare (Switzerland)* (Vol. 5, Issue 1). MDPI. <https://doi.org/10.3390/healthcare5010014>
- Bolyen, E., Rideout, J. R., Dillon, M. R., Bokulich, N. A., Abnet, C. C., Al-Ghalith, G. A., Alexander, H., Alm, E. J., Arumugam, M., Asnicar, F.,

- Bai, Y., Bisanz, J. E., Bittinger, K., Brejnrod, A., Brislawn, C. J., Brown, C. T., Callahan, B. J., Caraballo-Rodríguez, A. M., Chase, J., ... Caporaso, J. G. (2019). Reproducible, interactive, scalable and extensible microbiome data science using QIIME 2. *Nature Biotechnology*, 37(8), 852–857. <https://doi.org/10.1038/s41587-019-0209-9>
- Boyd, C. E., D'Abramo, L. R., Glencross, B. D., Huyben, D. C., Juarez, L. M., Lockwood, G. S., McNevin, A. A., Tacon, A. G. J., Teletchea, F., Tomasso, J. R., Tucker, C. S., & Valenti, W. C. (2020a). Achieving sustainable aquaculture: Historical and current perspectives and future needs and challenges. In *Journal of the World Aquaculture Society* (Vol. 51, Issue 3, pp. 578–633). Blackwell Publishing Inc. <https://doi.org/10.1111/jwas.12714>
- Boyd, C. E., D'Abramo, L. R., Glencross, B. D., Huyben, D. C., Juarez, L. M., Lockwood, G. S., McNevin, A. A., Tacon, A. G. J., Teletchea, F., Tomasso, J. R., Tucker, C. S., & Valenti, W. C. (2020b). Achieving sustainable aquaculture: Historical and current perspectives and future needs and challenges. *Journal of the World Aquaculture Society*, 51(3), 578–633. <https://doi.org/10.1111/jwas.12714>
- Boyd, C. E., Tucker, C. S., & Somridhivej, B. (2022). Aquaculture pond ecology and water quality management. *Aquaculture*, 547, 737458. <https://doi.org/10.1016/j.aquaculture.2021.737458>
- Callahan, B. J., McMurdie, P. J., Rosen, M. J., Han, A. W., Johnson, A. J. A., & Holmes, S. P. (2016). DADA2: High-resolution sample inference from Illumina amplicon data. *Nature Methods*, 13(7), 581–583. <https://doi.org/10.1038/nmeth.3869>
- Caporaso, J. G., Lauber, C. L., Walters, W. A., Berg-Lyons, D., Huntley, J., Fierer, N., Owens, S. M., Betley, J., Fraser, L., Bauer, M., Gormley, N., Gilbert, J. A., Smith, G., & Knight, R. (2012). Ultra-high-throughput microbial community analysis on the Illumina HiSeq and MiSeq platforms. *The ISME Journal*, 6(8), 1621–1624. <https://doi.org/10.1038/ismej.2012.8>
- Creswell, J. W., & Creswell, J. D. (2023). *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches* (6th ed.). Sage.
- Christy, A., Wijaya, A., Clarita Putri, A., Claudia Suryadi, J., Aileen Yap, C., Valeria Simamora, C., Patricia Tjhajadi, J., Abigail Thanos, C., Theodora, G., Irawan, M., Tammy Soputro, V., Samuel Thenoch, A., Pinontoan, R., Juandy Jo, dan, Studi Biologi, P., & Ilmu Kesehatan, F. (2025). *Pemanfaatan Kolagen Limbah Ikan Tuna dalam Meningkatkan Pertumbuhan Bacillus Subtilis sebagai Kandidat Probiotik [Utilization of Collagen From Tuna Fish Waste to Enhance The Growth of Bacillus Subtilis as A Probiotic Candidate]* Suawa Natania (Vol. 9, Issue 1).

- Collins, R. L., Brand, H., Karczewski, K. J., Zhao, X., Alföldi, J., Francioli, L. C., Khera, A. V., Lowther, C., Gauthier, L. D., Wang, H., Watts, N. A., Solomonson, M., O'Donnell-Luria, A., Baumann, A., Munshi, R., Walker, M., Whelan, C. W., Huang, Y., Brookings, T., ... Talkowski, M. E. (2020). A structural variation reference for medical and population genetics. *Nature*, 581(7809), 444–451. <https://doi.org/10.1038/s41586-020-2287-8>
- Corinaldesi, C., Bianchelli, S., Candela, M., Dell'Anno, A., Gambi, C., Rastelli, E., Varrella, S., & Danovaro, R. (2023). Microbiome-assisted restoration of degraded marine habitats: a new nature-based solution? In *Frontiers in Marine Science* (Vol. 10). Frontiers Media SA. <https://doi.org/10.3389/fmars.2023.1227560>
- Dash, P., Tandel, R. S., & Bhat, R. A. H. (2024). Microbiomes of the Aquatic Environment. In *Handbook of Aquatic Microbiology* (pp. 1–11). CRC Press. <https://doi.org/10.1201/9781003408543-1>
- De Schryver, P., Defoirdt, T., Sorgeloos, P., & Bossier, P. (2014). Early mortality syndrome outbreaks: A microbial management issue in shrimp farming? *PLoS Pathogens*, 10(4), e1003919. <https://doi.org/10.1371/journal.ppat.1003919>
- de Souza Valente, C., & Wan, A. H. L. (2021). *Vibrio* and major commercially important *Vibriosis* diseases in decapod crustaceans. *Journal of Invertebrate Pathology*, 181. <https://doi.org/10.1016/j.jip.2020.107527>
- Deep, A., Pandey, C. P., Nandan, H., Singh, N., Yadav, G., Joshi, P. C., Purohit, K. D., & Bhatt, S. C. (2021). Aerosols optical depth and Ångström exponent over different regions in Garhwal Himalaya, India. *Environmental Monitoring and Assessment*, 193(6), 324. <https://doi.org/10.1007/s10661-021-09048-4>
- Dewa, I., Tresna Yudianta, G., Nyoman, N., Martini, D., Bagus, I., & Swasta, J. (n.d.). *Studi Perbandingan Kualitas Air dengan Sistem Resirkulasi yang Berbeda pada Parameter Uji Amonia, Nitrit dan Nitrat*.
- Díaz-Abad, L., Bacco-Mannina, N., Madeira, F. M., Neiva, J., Aires, T., Serrao, E. A., Regalla, A., Patrício, A. R., & Frade, P. R. (2022). eDNA metabarcoding for diet analyses of green sea turtles (*Chelonia mydas*). In *Marine Biology* (Vol. 169, Issue 1). Springer Science and Business Media Deutschland GmbH. <https://doi.org/10.1007/s00227-021-04002-x>
- Dong, X., Wang, H., Zhang, Y., & Li, C. (2024). Microbial community dynamics and pathogen occurrence in intensive shrimp aquaculture systems. *Aquaculture Reports*, 35, 101987. <https://doi.org/10.1016/j.aqrep.2024.101987>

- Doss, J. H., Barekzi, N., & Gauthier, D. T. (2022). Improving high-throughput techniques for bacteriophage discovery in multi-well plates. *Journal of Microbiological Methods*, 200, 106542. <https://doi.org/10.1016/j.mimet.2022.106542>
- Dubey, A., Malla, M. A., & Kumar, A. (2022). Role of Next-Generation Sequencing (NGS) in Understanding the Microbial Diversity. In *Molecular Genetics and Genomics Tools in Biodiversity Conservation* (pp. 307–328). Springer Nature Singapore. https://doi.org/10.1007/978-981-16-6005-4_16
- Eisenhofer, R., Minich, J. J., Marotz, C., Cooper, A., Knight, R., & Weyrich, L. S. (2019). Contamination in Low Microbial Biomass Microbiome Studies: Issues and Recommendations. *Trends in Microbiology*, 27(2), 105–117. <https://doi.org/10.1016/j.tim.2018.11.003>
- El-Saadony, M. T., Shehata, A. M., Alagawany, M., Abdel-Moneim, A. E., Selim, D. A., Abdo, M., Khafaga, A. F., El-Tarabily, K. A., El-Shall, N. A., & El-Hack, M. E. A. (2022). A review of shrimp aquaculture and factors affecting the gut microbiome. *Aquaculture International*, 30, 2847–2869. <https://doi.org/10.1007/s10499-022-00936-1>
- Fariza, A., Setiawardhana, S., Dewantara, B. S. B., Barakbah, A., Pramadihanto, D., Winarno, I., Badriyah, T., Harsono, T., Syarif, I., Sesulihatien, W. T., Susanti, P., Huda, A. T., Rachmawati, O. C. R., Afifah, I. N., Kurniawan, R., & Hamida, S. N. (2023). Water Quality Control System Based on Web Application for Monitoring Shrimp Cultivation in Sidoarjo, East Java. *GUYUB: Journal of Community Engagement*, 4(3), 394–411. <https://doi.org/10.33650/guyub.v4i3.7245>
- Gin, K. Y.-H., Ng, C., Li, W., Goh, S. G., Tong, X., & Jong, M. C. (2023). Emerging microbial contaminants in the ocean. In *Oceans and Human Health* (pp. 315–350). Elsevier. <https://doi.org/10.1016/B978-0-323-95227-9.00018-X>
- Hadley Wickham. (2016). *ggplot2: Elegant Graphics for Data Analysis*.
- Hargreaves, J. A. (2006). Photosynthetic suspended-growth systems in aquaculture. *Aquacultural Engineering*, 34(3), 344–363. <https://doi.org/10.1016/j.aquaeng.2005.08.009>
- Haris, N., Manan, H., Jusoh, M., Khatoon, H., Katayama, T., & Kasan, N. A. (2022). Effect of different salinity on the growth performance and proximate composition of isolated *indigenous* microalgae species. *Aquaculture Reports*, 22, 100925. <https://doi.org/10.1016/j.aqrep.2021.100925>
- Hastuti Satyantini, Ir., M.Si, Dr. W., Mubarak, A. S., & Subekti, S. (2023). Antagonism *Pseudomonas diminuta* on The Growth of *Vibrio harveyi*

with Mix Culture Method. *Journal of Aquaculture and Fish Health*, 12(3), 313–321. <https://doi.org/10.20473/jafh.v12i3.17949>

Huang, X., Zhong, L., Fan, W., Feng, Y., Xiong, G., Liu, S., Wang, K., Geng, Y., Ouyang, P., Chen, D., Yang, S., Yin, L., & Ji, L. (2020). Enteritis in hybrid sturgeon (*Acipenser schrenckii*♂ × *Acipenser baeri*♀) caused by intestinal microbiota disorder. *Aquaculture Reports*, 18, 100456. <https://doi.org/10.1016/j.aqrep.2020.100456>

Hugenholtz, P., Goebel, B. M., & Pace, N. R. (1998). Impact of Culture-Independent Studies on the Emerging Phylogenetic View of Bacterial Diversity. *Journal of Bacteriology*, 180(18), 4765–4774. <https://doi.org/10.1128/JB.180.18.4765-4774.1998>

Janda, J. M., & Abbott, S. L. (2021). The Changing Face of the Family *Enterobacteriaceae* (Order: “*Enterobacterales*”): New Members, Taxonomic Issues, Geographic Expansion, and New Diseases and Disease Syndromes. *Clinical Microbiology Reviews*, 34(2). <https://doi.org/10.1128/CMR.00174-20>

Johnson, R. B., Christensen, L., & Rosano, R. (2021). Educational Research: Quantitative, Qualitative, and Mixed Approaches (7th ed.). Sage.

Kementerian Kelautan dan Perikanan Republik Indonesia. (2024). Laporan kinerja Kementerian Kelautan dan Perikanan 2023. <https://portaldata.kkp.go.id>

Khairiyah, R. A. Z., Setiabudi, G. I., Mastuti, I., & Mahardika, K. (2022). Uji Efektivitas Ekstrak Biji Pala (*Myristica fragrans* Hout) SEBAGAI ANTIBAKTERI TERHADAP PERTUMBUHAN *Vibrio Parahaemolyticus* PENYEBAB PENYAKIT *VIBRIOSIS* PADA IKAN KERAPU (*Epinephelus* spp.) In Vitro. *Jurnal Perikanan Unram*, 12(3), 378–388. <https://doi.org/10.29303/jp.v12i3.335>

Kleiber, A., Stomp, M., Rouby, M., Ferreira, V. H. B., Bégout, M.-L., Benhaïm, D., Labbé, L., Tocqueville, A., Levadoux, M., Calandreau, L., Guesdon, V., & Colson, V. (2023). Cognitive enrichment to increase fish welfare in aquaculture: A review. *Aquaculture*, 575, 739654. <https://doi.org/10.1016/j.aquaculture.2023.739654>

Kumar, V., Roy, S., Meena, D. K., & Sarkar, U. K. (2023). Microbial dynamics and water quality interactions in intensive aquaculture systems. *Aquaculture International*, 31(5), 2851–2870. <https://doi.org/10.1007/s10499-023-01136-7>

Kumari, P., Kumar, S., Raman, R. P., & Brahmchari, R. K. (2024). Nanotechnology: An avenue for combating fish parasites in aquaculture system. In *Veterinary Parasitology* (Vol. 332). Elsevier B.V. <https://doi.org/10.1016/j.vetpar.2024.110334>

- Lee, R., White, C. J., Adnan, M. S. G., Douglas, J., Mahecha, M. D., O'Loughlin, F. E., Patelli, E., Ramos, A. M., Roberts, M. J., Martius, O., Tubaldi, E., van den Hurk, B., Ward, P. J., & Zscheischler, J. (2024). Reclassifying historical disasters: From single to multi-hazards. *Science of The Total Environment*, 912, 169120. <https://doi.org/10.1016/j.scitotenv.2023.169120>
- Liu, Y., Chen, Z., Wang, X., & Zhao, J. (2023). Functional characteristics of heterotrophic bacterial communities in coastal aquaculture ponds. *Aquaculture Environment Interactions*, 15, 145–158. <https://doi.org/10.3354/aei00442>
- Li, Y., Zhang, H., Chen, X., & Wang, J. (2023). Salinity-driven dynamics of bacterial communities in coastal aquaculture ponds. *Aquaculture Environment Interactions*, 15, 211–224. <https://doi.org/10.3354/aei00458>
- Lorgen-Ritchie, M., Uren Webster, T., McMurtrie, J., Bass, D., Tyler, C. R., Rowley, A., & Martin, S. A. M. (2023). Microbiomes in the context of developing sustainable intensified aquaculture. In *Frontiers in Microbiology* (Vol. 14). Frontiers Media SA. <https://doi.org/10.3389/fmicb.2023.1200997>
- Marwoto, R., *et al.* (2022). "Pemetaan Sebaran Spasial Parameter Kualitas Air untuk Budidaya Udang Berkelanjutan". *Jurnal Ilmu Kelautan*, 27(2), 89-101. DOI: 10.14710/jik.v27i2.89-101
- Nkuba, A. C., Mahasri, G., Lastuti, N. D. R., & Mwendolwa, A. A. (2021). Correlation of nitrite and ammonia concentration with microbial dynamics in super-intensive shrimp (*Litopenaeus vannamei*) ponds. *Jurnal Ilmiah Perikanan dan Kelautan*, 13(1), 58–67.
- Nguyen, T. H., *et al.* (2026). Impact of *Streptomyces* and *Bacillus* on ammonia, nitrite, *Vibrio* counts, and growth of *Penaeus vannamei* in recirculating aquaculture system. *Journal of Pure and Applied Microbiology*, 20(1), 112–125.
- Oren, A. (2022). Microbial life at high salt concentrations: Phylogenetic and metabolic diversity. *Saline Systems*, 18(1), 1–15.
- PERMEN-KP-75. (2016). Peraturan Menteri Kelautan Dan Perikanan Republik Indonesia Nomor No.75/PERMEN-KP/2016 Tentang Pedoman Umum Pembesaran Udang Windu (*Penaeus monodon*) Dan Udang Vaname (*Litopenaeus vannamei*). Kkp, 1–43.
- Permana, I. G. W., Setiabudi, G. I., & Sitepu, G. S. B. (2022). Plankton Biodiversity in The Floating Net Cage. *Advances in Tropical Biodiversity and Environmental Sciences*, 6(2), 57. <https://doi.org/10.24843/ATBES.2022.v06.i02.p05>

- Prasetyono, E., Bidayani, E., Syaputra Program Studi Akuakultur, D., & Pertanian Perikanan dan Biologi, F. (n.d.). Provinsi Kepulauan Bangka Belitung Analysis Of Nitrate And Phosphate In The Location Of ANALISIS KANDUNGAN NITRAT DAN FOSFAT PADA LOKASI BUANGAN LIMBAH TAMBAK UDANG VANAME (*Litopenaeus vannamei*) DI KABUPATEN BANGKA TENGAH effluent Waste Disposal Of Pacific. *Saintek Perikanan: Indonesian Journal of Fisheries Science and Technology*. <http://ejournal.undip.ac.id/index.php/saintek>
- Putri, A. M., & Kurnia, P. (2018). Identifikasi keberadaan bakteri coliform dan total mikroba dalam es dung-dung di sekitar kampus Universitas Muhammadiyah Surakarta. *Media Gizi Indonesia*, 13(1), 41-48. <https://doi.org/10.20473/mgi.v13i1.41-48>
- Riawan, I. M. O., Setiabudi, G. I., Merdana, I. M., Mariasa, I. P. M., & Wirasastra, K. T. (2019). First Molecular Identification of Sunfish in North Bali Water. *Advances in Tropical Biodiversity and Environmental Sciences*, 3(1), 12. <https://doi.org/10.24843/atbes.2019.v03.i01.p04>
- Robeson, M. S., O'Rourke, D. R., Kaehler, B. D., Ziemski, M., Dillon, M. R., Foster, J. T., & Bokulich, N. A. (2021). RESCRIPT: Reproducible sequence taxonomy reference database management. *PLoS Computational Biology*, 17(11). <https://doi.org/10.1371/journal.pcbi.1009581>
- Roesma, D. I., Tjong, D. H., Syaifullah, Nofrita, Janra, M. N., Aidil, D. R., Prawira, F. D. L., & Salis, V. M. (2025). DNA Barcoding and eDNA Metabarcoding for Identification Species: A Case Study (West Sumatra). *Journal of Tropical Life Science*, 15(1), 161–176. <https://doi.org/10.11594/jtls.15.01.16>
- Roslin, T., Traugott, M., Jonsson, M., Stone, G. N., Creer, S., & Symondson, W. O. C. (2019). Introduction: Special issue on species interactions, ecological networks and community dynamics – Untangling the entangled bank using molecular techniques. *Molecular Ecology*, 28(2), 157–164. <https://doi.org/10.1111/mec.14974>
- Sandelowski, M. (2022). "Descriptive Research: 'What Is' Without Speculating 'Why'". *Journal of Nursing Scholarship*, 54(1), 12-17.
- Schallenberg, L., Wood, S. A., Pochon, X., & Pearman, J. K. (2020). What Can DNA in the Environment Tell Us About an Ecosystem? *Frontiers for Young Minds*, 7. <https://doi.org/10.3389/frym.2019.00150>
- Schloss, P. D., Gevers, D., & Westcott, S. L. (2011). Reducing the Effects of PCR Amplification and Sequencing Artifacts on 16S rRNA-Based Studies. *PLoS ONE*, 6(12), e27310.

<https://doi.org/10.1371/journal.pone.0027310>

- Schneijderberg, M., Cheng, X., Franken, C., de Hollander, M., van Velzen, R., Schmitz, L., Heinen, R., Geurts, R., van der Putten, W. H., Bezemer, T. M., & Bisseling, T. (2020). Quantitative comparison between the rhizosphere effect of *Arabidopsis thaliana* and co-occurring plant species with a longer life history. *The ISME Journal*, 14(10), 2433–2448. <https://doi.org/10.1038/s41396-020-0695-2>
- Seong Wei, L., Mohamad Sukri, S. A., Tahiluddin, A. B., Abdul Kari, Z., Wee, W., & Kabir, M. A. (2024). Exploring beneficial effects of phytobiotics in marine shrimp farming: A review. In *Heliyon* (Vol. 10, Issue 14). Elsevier Ltd. <https://doi.org/10.1016/j.heliyon.2024.e31074>
- Setiabudi, G. I., Praselia, I. N. D., Antara, K. L., Sitepu, G. S. B., Amelia, J. M., & Maharani, M. D. K. (2023). Algicidal Potential of the Endosymbiont Bacterial Consortium of the Seagrasses *Enhalus acoroides* and *Thalassia hemprichii*. *IOP Conference Series: Earth and Environmental Science*, 1224(1). <https://doi.org/10.1088/1755-1315/1224/1/012039>
- Shah, R. M., Crosswell, J., Metcalfe, S. S., Carlin, G., Morrison, P. D., Karpe, A. V., Palombo, E. A., Steven, A. D. L., & Beale, D. J. (2019). Influence of Human Activities on Broad-Scale Estuarine-Marine Habitats Using Omics-Based Approaches Applied to Marine Sediments. *Microorganisms*, 7(10), 419. <https://doi.org/10.3390/microorganisms7100419>
- Shih, C.-Y., Chin, C.-H., Chen, S.-Y., Hsu, C.-R., Kan, L.-K., & Tzou, W.-S. (2023). Microbial community and genome structure in coastal seawater from a commercial port and nearby offshore island in northern Taiwan. *Journal of Marine Science and Technology*, 31(4). <https://doi.org/10.51400/2709-6998.2726>
- Sivan, J., Tesler, I., Hadad, S., Degen, A. A., Geffen, E., & Kam, M. (2023). Testing the morphological constraint hypothesis of tail length in the sexually dimorphic *Cerastes vipera* and new perspectives. *Scientific Reports*, 13(1). <https://doi.org/10.1038/s41598-023-31624-6>
- Sugiyono. (2019). Metode penelitian pendidikan: Kuantitatif, kualitatif, kombinasi, R&D dan penelitian pendidikan (Edisi 1). Alfabeta.
- Sun, X., Liu, T., Zhao, J., Xia, H., Xie, J., Guo, Y., Zhong, L., Li, M., Yang, Q., Peng, C., Rouvet, I., Belot, A., Shu, H.-B., Feng, P., & Zhang, J. (2020). DNA-PK deficiency potentiates cGAS-mediated antiviral innate immunity. *Nature Communications*, 11(1), 6182. <https://doi.org/10.1038/s41467-020-19941-0>
- Taareluan, R., Wantania, L. L., Ginting, E. L., Mangindaan, R. E. P.,

- Kumampung, D. R. H., Kreckhoff, R. L., Wullur, S., Iprogram Studi, I., Kelautan, F., Unsrat, M., Program, S., & Budidaya, P. (2020). AMPLIFIKASI GEN 16S-rRNA BAKTERI EPIFIT PADA ALGA MERAH *Kappaphycus alvarezii* (16S-rRNA Gene Amplification of Epiphytic Bacteria in Red Algae *Kappaphycus Alvarezii*). In *Jurnal Pesisir dan Laut Tropis* (Vol. 8).
- Tangguda Dan I, S., Dodik, N., Program, P., Kelautan, S. B., Perikanan, J., & Kelautan, D. (2018). Available online at Indonesian Journal of Fisheries Science and Technology (IJFST) Diserahkan tanggal 18 Oktober. *Diterima* *Tanggal*, 10. <http://ejournal.undip.ac.id/index.php/saintek>
- Tran, L. H., Nguyen, T. T., & Dang, H. T. (2023). Distribution and pathogenic potential of *Vibrio* species in intensive shrimp farming systems. *Aquaculture*, 573, 739658. <https://doi.org/10.1016/j.aquaculture.2023.739658>
- Wang, X., Li, H., Zhang, R., Liu, X., Nan, F., Liu, Q., Lv, J., Feng, J., Xie, S., & Liu, Y. (2024). Bacterial community and dissolved organic matter networks in urban river: The role of human influence. *Environmental Research*, 263, 120021. <https://doi.org/10.1016/j.envres.2024.120021>
- Wang, Q., Li, S., Zhang, X., & Huang, J. (2023). Functional roles of beneficial bacteria in improving water quality and shrimp health in aquaculture ponds. *Aquaculture Research*, 54(11), 4982–4995. <https://doi.org/10.1111/are.16352>
- Waruwu, M., Pasani, C. F., & Suryani, A. (2025). Metode Penelitian Kuantitatif: Konsep, Jenis, Tahapan dan Kelebihan. *Jurnal Ilmiah Profesi Pendidikan*, 10(1), 45–56.
- Wawrzyński, A., & Szymański, J. (2021). Study of Statistical Text Representation Methods for Performance Improvement of a Hierarchical Attention Network. *Applied Sciences*, 11(13), 6113. <https://doi.org/10.3390/app11136113>
- Won, N.-I., Kim, K.-H., Kang, J., Park, S., & Lee, H. (2017). Exploring the Impacts of Anthropogenic Disturbance on Seawater and Sediment Microbial Communities in Korean Coastal Waters Using Metagenomics Analysis. *International Journal of Environmental Research and Public Health*, 14(2), 130. <https://doi.org/10.3390/ijerph14020130>
- Wulandari, S., Sutiarto, S., & Coesamin, M. (2025). Pengaruh kecerdasan logis matematis dan adversity quotient terhadap kemampuan pemecahan masalah matematika siswa. *Al-Irsyad: Journal of Mathematics Education*, 4(2), 325–336.

- Wu, H. jun, Du, X. yuan, Wu, W. jing, Zheng, J., Song, J. yu, & Xie, J. cai. (2023). Metagenomic analysis reveals specific BTEX degrading microorganisms of a bacterial consortium. *AMB Express*, 13(1). <https://doi.org/10.1186/s13568-023-01541-y>
- Xie, Y., Cheng, D., Wang, L., Chen, F., Chen, H., Ma, H., Yang, Y., & Yuan, X. (2022). GLP-1 responds to postprandial hyperglycemia by reducing transcription level in grass carp (*Ctenopharyngodon idella*). *Aquaculture Reports*, 23, 101045. <https://doi.org/10.1016/j.aqrep.2022.101045>
- Xiong, J., Zhu, J., Dai, W., Dong, C., & Li, C. (2023). Microbial diversity and ecological succession in shrimp aquaculture ecosystems. *Frontiers in Microbiology*, 14, 1245187. <https://doi.org/10.3389/fmicb.2023.1245187>
- Yang, Q., Cahn, J. K. B., Piel, J., Song, Y.-F., Zhang, W., & Lin, H.-W. (2022). Marine Sponge Endosymbionts: Structural and Functional Specificity of the Microbiome within *Euryspongia arenaria* Cells. *Microbiology Spectrum*, 10(3). <https://doi.org/10.1128/spectrum.02296-21>
- Zango, Z. U., Ethiraj, B., Al-Mubaddel, F. S., Alam, M. M., Lawal, M. A., Kadir, H. A., Khoo, K. S., Garba, Z. N., Usman, F., Zango, M. U., & Lim, J. W. (2023). An overview on human exposure, toxicity, solid-phase microextraction and adsorptive removal of perfluoroalkyl carboxylic acids (PFCAs) from water matrices. *Environmental Research*, 231, 116102. <https://doi.org/10.1016/j.envres.2023.116102>
- Zhang, H., Wu, Y., Liu, X., & Sun, P. (2024). Environmental drivers of microbial community dynamics in aquaculture pond ecosystems. *Science of the Total Environment*, 921, 171186. <https://doi.org/10.1016/j.scitotenv.2024.171186>
- Zheng, T., Gao, M., Chang, Q., Zheng, X., & Walther, M. (2022). Dynamic Desalination of Intruding Seawater After Construction of Cut-Off Walls in a Coastal Unconfined Aquifer. *Frontiers in Marine Science*, 9. <https://doi.org/10.3389/fmars.2022.857807>