

DAFTAR PUSTAKA

- Agme-Ghodke, V., Agme, R. N., dan Sagar, A. D. 2016. Analysis of bioactive compounds in leaves extract of *Centella asiatica* by using HPLC-MS & IR techniques. Available online www.jocpr.com *Journal of Chemical and Pharmaceutical Research*. **8**(8): 122–125.
- Agme-Ghodke, V., Agme, R. N., dan Sagar, A. D. 2016. Analysis of bioactive compounds in leaves extract of *Centella asiatica* by using HPLC-MS & IR techniques. Available online www.jocpr.com *Journal of Chemical and Pharmaceutical Research*. **8**(8): 122–125.
- Álvarez-Viñas, M., Flórez-Fernández, N., Torres, M. D., dan Domínguez, H. 2019. Successful approaches for a red seaweed biorefinery. *Marine Drugs*. **17**(11): 1–18.
- Amiteye, S. 2021. Basic Concepts and Methodologies of DNA Marker Systems in Plant Molecular Breeding. *Heliyon*. **7**(e08093): 1–20.
- Arbit, N. I. S., Omar, S. B. A., Soekendarsi, E., Yasir, I., Tresnati, J., Mutmainnah, dan Tuwo, A. 2019. Morphological and genetic analysis of *Gracilaria* sp. cultured in ponds and coastal waters. *IOP Conference Series: Earth and Environmental Science*. **370**(1): 0–9.
- Arif, M., Li, Y., El-Dalatony, M. M., Zhang, C., Li, X., dan Salama, E. S. 2021. A Complete Characterization of Microalgal Biomass Through FTIR/TGA/CHNS Analysis: An Approach for Biofuel Generation and Nutrients Removal. *Renewable Energy*. **163**: 1973–1982.
- Azizah, M., Lingga, L. S., dan Rikmasari, Y. 2020. Uji Aktivitas Antibakteri Kombinasi Ekstrak Etanol Daun Seledri (*Apium graveolens* L.) Dan Madu Hutan Terhadap Beberapa Bakteri Penyebab Penyakit Kulit. *Jurnal Penelitian Sains*. **22**(1): 37.
- Badyal, S., Singh, H., Yadav, A. K., Sharma, S., dan Bhushan, I. 2020. Plant secondary metabolites and their uses. *Plant Archives*. **20**(2): 3336–3340.
- Balouiri, M., Sadiki, M., dan Ibsouda, S. K. 2016. Methods for in vitro evaluating antimicrobial activity: A review. *Journal of Pharmaceutical Analysis*. **6**(2): 71–79.
- Banik, U., Mohiuddin, M., Wahab, M. A., Rahman, M. M., Nahiduzzaman, M., Sarker, S., Wong, L., dan Asaduzzaman, M. 2023. Comparative Performances of Different Farming Systems and Associated Influence of Ecological Factors on *Gracilaria* sp. Seaweed at The South-East Coast of The Bay of Bengal, Bangladesh. *Aquaculture*. **574**(739675): 1–18.
- Barsanti, L. dan Gualtieri, P. 2014. *Algae: Anatomy, Biochemistry, and Biotechnology*. Taylor and Francis Group, Boca Raton.

- Bayot, M. L. dan Bragg, B. N. 2022. Diakses tanggal 4 Januari 2024, dari *Antimicrobial Susceptibility Testing* National Library of Medicine (NIH): <https://www.ncbi.nlm.nih.gov/books/NBK539714/>.
- Bhutiya, P. L., Mahajan, M. S., Abdul Rasheed, M., Pandey, M., Zaheer Hasan, S., dan Misra, N. 2018. Zinc Oxide Nanorod Clusters Deposited Seaweed Cellulose Sheet for Antimicrobial Activity. *International Journal of Biological Macromolecules*. **112**(2017): 1264–1271.
- Bhuyar, P., Rahim, M. H., Sundararaju, S., Maniam, G. P., dan Govindan, N. 2020. Antioxidant and antibacterial activity of red seaweed; *Kappaphycus alvarezii* against pathogenic bacteria. *Global Journal of Environmental Science and Management*. **6**(1): 47–58.
- Bisilisin, F. Y. dan Naatonis, R. N. 2021. Pengelompokan Jenis Rumput Laut Menggunakan Fuzzy C-Means Berbasis Citra. *Jurnal Manajemen informatika & Sistem Informasi*. **4**(1): 2614–1701.
- Boo, G. H., Bottalico, A., Le Gall, L., dan Yoon, H. S. 2023. Genetic Diversity and Phylogeography of a Turf-Forming Cosmopolitan Marine Alga, *Gelidium crinale* (Gelidiales, Rhodo-Phyta). *International Journal of Molecular Sciences*. **24**(6): 1–17.
- Camacho, C., Boratyn, G. M., Joukov, V., Vera Alvarez, R., dan Madden, T. L. 2023. ElasticBLAST: accelerating sequence search via cloud computing. *BMC Bioinformatics*. **24**(1): 1–16.
- Carpio, R. B., Zhang, Y., Kuo, C. T., Chen, W. T., Schideman, L. C., dan de Leon, R. 2021. Effects of reaction temperature and reaction time on the hydrothermal liquefaction of demineralized wastewater algal biomass. *Bioresource Technology Reports*. **14**(February 2020): 100679.
- Chen, Y., Li, E. M., dan Xu, L. Y. 2022. Guide to Metabolomics Analysis: A Bioinformatics Workflow. *Metabolites*. **12**(4): 1–20.
- Cheng, C., Sun, J., Zheng, F., Wu, K., dan Rui, Y. 2014. Molecular identification of clinical “difficult-to-identify” microbes from sequencing 16S ribosomal DNA and internal transcribed spacer 2. *Annals of Clinical Microbiology and Antimicrobials*. **13**(1): 1–7.
- Clish, C. B. 2015. Metabolomics: an emerging but powerful tool for precision medicine. *Molecular Case Studies*. **1**(1): 1–6.
- Cornell, A. P., Kim, S., Cuadros, J., Bucholtz, E. C., Pence, H. E., Potenzzone, R., dan Belford, R. E. 2024. IUPAC International Chemical Identifier (InChI)-related education and training materials through InChI Open Education Resource (OER). *Chemistry Teacher International*. 1–15.
- Damat, D., Tain, A., Winarsih, S., Siskawardani, D. D., dan Rastikasari, A. 2020. Teknologi Prose Pembuatan Beras Analog Fungsional. UMM Press, Malang.

- Dayuti, S. 2018. Antibacterial Activity of Red Algae (*Gracilaria verrucosa*) Extract Against *Escherichia coli* and *Salmonella typhimurium*. *Earth and Environmental Science*. **137**(1): 1-5.
- Dewinta, A. F., Wahyudi, Y. A., Pratama, R. Y., Susetya, I. E., Siregar, R. F., dan Manurung, V. R. 2021. Inhibition Effectivity of *Halimeda macroloba* Seaweed Extract Against fish indigenous bacteria for safety fisheries product Inhibition effectivity of *Halimeda macroloba* seaweed extract against fish indigenous bacteria for safety fisheries product. *International Conference on Agriculture, Environment and Food Security*. **782**(1): 1-8.
- Diharmi, A., Edison, E., Prida, E. A., Subaryono, S., dan Hidayat, T. 2023. Chemical composition, bioactive compounds, antioxidant activity, and inhibitor alpha-glucosidase enzyme of *Sargassum* sp. *Food Science and Technology*. **43**(1): 1-7.
- Du, Y., Zhang, J., Jueterbock, A., dan Duan, D. 2022. Prediction of the dynamic distribution for *Eucheuma denticulatum* (Rhodophyta, Solieriaceae) under climate change in the Indo-Pacific Ocean. *Marine Environmental Research*. **180**(105730): 1-27.
- Dukalang, F. I. 2023. Carbon Steel Biocorrosion Inhibition by Methanol Extract *Gracilaria Edulis* in Seawater. *West Science Interdisciplinary Studies*. **01**(08): 492-516.
- Enomoto, H., Sensu, T., Sato, K., Sato, F., Paxton, T., Yumoto, E., Miyamoto, K., Asahina, M., Yokota, T., dan Yamane, H. 2017. Visualisation of abscisic acid and 12-oxo-phytodienoic acid in immature *Phaseolus vulgaris* L. seeds using desorption electrospray ionisation-imaging mass spectrometry. *Scientific Reports*. **7**(February): 1-8.
- Erb, M. dan Kliebenstein, D. J. 2020. Plant Secondary Metabolites as Defenses, Regulators, and Primary Metabolites: The Blurred Functional Trichotomy1[OPEN]. *Plant Physiology*. **184**(1): 39-52.
- Erina, Rinidar, Armansyah, T., Erwin, Rusli, dan Elsavira, R. 2019. Inhibitory Test of Ethanol Extract of Noni Leaf (*Morinda Citrifolia* L.) on *Staphylococcus Aureus* Growth. *Jurnal Ilmiah Mahasiswa Veteriner (JIMVET)*. **3**(3): 161-169.
- F.Afrin, T.Ahsan, Mondal, M. N., Rasul, M. G., M.Afrin, Silva, A. A., C.yuan, dan Shah, A. K. M. A. 2023. Evaluation of Antioxidant and Antibacterial Activities of Some Selected Seaweeds from Saint Martin's Island of Bangladesh. *Food Chamistry Advances*. **3**(1): 1-8.
- Faradilla, F., Nikmah, F., Putri, A. D., Agustin, G. A., Nurkaromah, L., Febrianti, M. W., Budhiman, M. A., Salamah, U., dan Chasani, A. R. 2022. Macroalgae diversity at Porok Beach, Gunungkidul, Yogyakarta, Indonesia. *Journal of Agriculture and Applied Biology*. **3**(1): 50-61.
- Figuerola, F. L., Omez, F. A.-G. ´, Bonomi-Barufi, J., Vega, J., Thais Massocato, F., Gomez-Pinchetti, J. L., dan Korbee, N. 2022. Interactive Effects of Solar

- Radiation and Inorganic Nutrients on Biofiltration, Biomass Production, Photosynthetic Activity and The Accumulation of Bioactive Compounds in *Gracilaria cornea* (Rhodophyta). *Algal Research*. **68**(102890): 1-17.
- Firdaus, M. 2019. Pigmen Rumpit Laut dan Manfaat Kesehatannya. UB Press, Malang.
- Garcia-Perez, P., Cassani, L., Garcia-Oliveira, P., Xiao, J., Simal-Gandara, J., Prieto, M. A., dan Lucini, L. 2023. Algal Nutraceuticals: A Perspective on Metabolic Diversity, Current Food Applications, and Prospects in The Field of Metabolomics. *Food Chemistry*. **409**(135295): 1-18.
- Habibie, S. A., Murwantoko, dan Djumanto. 2018. *Amphilophus amarillo* [Stauffer & McKaye , 2002] di Waduk Sermo Yogyakarta [Polychromatic , sexual dimorphism and redescription species of red devil *Amphilophus Amarillo*. *Jurnal Iktiologi Indonesia*. **18**(1): 69-86.
- Halimah, M., Sari, D. S., dan Anggraeni, S. R. 2022. Sosialisasi Konservasi Rumpit Laut Terkait Kegiatan Pengolahan Rumpit Laut Di Pesisir Pantai Karapyak, Desa Bagolo, Pangandaran. *Jurnal Pengabdian kepada Masyarakat*. **2**(2): 47-60.
- Handy, S. M., Ott, B. M., Hunter, E. S., Zhang, S., Erickson, D. L., Wolle, M. M., Conklin, S. D., dan Lane, C. E. 2020. Suitability of DNA Sequencing Tools for Identifying Edible Seaweeds Sold in the United States. *Journal of Agricultural and Food Chemistry*. **68**(52): 15516-15525.
- Hanifah, S., Sahidin, A., Hamdani, H., Permata, L., dan Yuliadi, S. 2019. Diversity of Chlorophyta on Karapyak Beach, Pangandaran, West Java Province, Indonesia. *World Scientific News/World Scientific News*. **117**(1): 158-174.
- Hernández-Cruz, K., Jiménez-Martínez, C., Perucini-Avendaño, M., Mateo Cid, L. E., Perea-Flores, M. de J., Gutiérrez-López, G. F., dan Dávila-Ortiz, G. 2022. Chemical and microstructural characterization of three seaweed species from two locations of Veracruz, Mexico. *Food Science and Technology (Brazil)*. **42**.
- Hitijahubessy, H., Susiyanto, A. Y., Samid, A., dan Cesar, O. 2021. Pengaruh Ekstrak Lamun *Enhalus acoroides* Secara In Vitro sebagai Antibakteri *Vibrio* sp. Penyebab Penyakit Ice-ice pada Rumpit Laut *Euचेuma cottoni*. *Molluca Journal of Chemistry Education (MJoCE)*. **11**(2): 93-98.
- Husni, A. dan Budhiyanti, S. A. 2021. Rumpit Laut: sebagai Sumber Pangan, Kesehatan, dan Kosmetik. Gadjah Mada University Press, Yogyakarta. 146 hal.
- Iyapparaj, P., Revathi, P., Ramasubburayan, R., Prakash, S., Palavesam, A., Immanuel, G., Anantharaman, P., Sautreau, A., dan Hellio, C. 2014. Antifouling and toxic properties of the bioactive metabolites from the seagrasses *Syringodium isoetifolium* and *Cymodocea serrulata*. *Ecotoxicology and Environmental Safety*. **103**(1): 54-60.

- Jannah, M., Sari, N. K., Mushlih, M., Rifqi, M., Priyambodo, Pratiwi, R. H., Priyono, D. S., Rubiyana, Y., Praningrum, P., Rahayu, D. A., Andriyono, S., dan Awwanah, M. 2021. Metode Biologi Molekuler. Widina Bhakti Persada, Bandung. (August). 294 hal.
- Javadikasgari, H., Soltesz, E. G., dan Gillinov, A. M. 2018. Surgery for Atrial Fibrillation. *Atlas of Cardiac Surgical Techniques*. 479–488.
- Joni, K. dan Arumingtyas, E. L. 2020. Polymerase Chain Reaction (PCR): Teknik dan Fungsi. (T. U. Press, Ed.). UB press, Malang. 216 hal.
- Kasanah, N., Setyadi, Triyanto, dan T., T. I. 2019a. Rumput Laut Indonesia: Keanekaragaman Rumput Laut di Gunung Kidul, Yogyakarta. Gadjah Mada University Press, Yogyakarta. 108 hal.
- Kim, S., Choi, S. K., Van, S., Kim, S. T., Kang, Y. H., dan Park, S. R. 2022. Geographic Differentiation of Morphological Characteristics in the Brown Seaweed *Sargassum thunbergii* along the Korean Coast: A Response to Local Environmental Conditions. *Journal of Marine Science and Engineering*. **10**(4).
- Kokotou, M. G., Mantzourani, C., Bourboula, A., Mountanea, O. G., dan Kokotos, G. 2020. Spectrometry (LC-HRMS) Method for the Cow and Goat Milk. *Molecules*. **25**(3947): 1–12.
- Kolari, L. dan Šimko, P. 2020. Determination of Cholesterol Content in Butter by HPLC: Up-to-Date Optimization, and In-House Validation Using Reference Materials. *Foods*. **9**(1378): 1–11.
- Kumar, S., Stecher, G., Li, M., Knyaz, C., dan Tamura, K. 2018. MEGA X: Molecular evolutionary genetics analysis across computing platforms. *Molecular Biology and Evolution*. **35**(6): 1547–1549.
- Kurnia, D., Idar, Angraeni, V. J., Musfiroh, I., Hendriani, R., Asnawi, A., dan Nurachman, Z. 2022. Potential of *Navicula salinicola* extract, a microalgae from Maluku islands, as an anti-inflammatory agent using the human red blood cells (HRBC) method. *Rasayan Journal of Chemistry*. **15**(2): 1174–1181.
- Lee, S. J., Hwang, M. S., Park, M. A., Baek, J. M., Ha, D. S., Lee, J. E., dan Lee, S. R. 2015. Molecular identification of the algal pathogen *Pythium chondricola* (Oomycetes) from *Pyropia yezoensis* (Rhodophyta) using ITS and *cox1* markers. *Algae*. **30**(3): 217–222.
- Li, Y., Ghasemi Naghdi, F., Garg, S., Adarme-Vega, T. C., Thurecht, K. J., Ghafor, W. A., Tannock, S., dan Schenk, P. M. 2014. A comparative study: The impact of different lipid extraction methods on current microalgal lipid research. *Microbial Cell Factories*. **13**(1): 1–9.
- Lomartire, S. dan Gonçalves, A. M. M. 2023. An Overview on Antimicrobial Potential of Edible Terrestrial Plants and Marine Macroalgae Rhodophyta and Chlorophyta Extracts. **21**(3).

- Lyra, G. de M., Costa, E. da S., Jesus, P. B. de, Matos, J. C. G. de, Caires, T. A., Oliveira, M. C., Oliveira, E. C., Xi, Z., Nunes, J. M. de C., dan Davis, C. C. 2015. Phylogeny of Gracilariaceae (Rhodophyta): evidence from plastid and mitochondrial nucleotide sequences. *Journal of phycology*. **51**(2): 356–366.
- Mahendran, D., Kavi Kishor, P. B., Geetha, N., Manish, T., Sahi, S. V., dan Venkatachalam, P. 2021. Efficient Antibacterial/Biofilm, Anti-Cancer and Photocatalytic Potential of Titanium Dioxide Nanocatalysts Green Synthesised Using *Gloriosa superba* Rhizome Extract. *Journal of Experimental Nanoscience*. **16**(1): 11–31.
- Maresca, D. C., Conte, L., Romano, B., Ianaro, A., dan Ercolano, G. 2023. Antiproliferative and Proapoptotic Effects of Erucin, A Diet-Derived H2S Donor, on Human Melanoma Cells. *Antioxidants*. **12**(1).
- Matos, G. S., Pereira, S. G., Genisheva, Z. A., Gomes, A. M., Teixeira, J. A., dan Rocha, C. M. R. 2021. Advances in extraction methods to recover added-value compounds from seaweeds: Sustainability and functionality. *Foods*. **10**(3): 1–20.
- Meinita, M. D. N., Akromah, N., Andriyani, N., Setijanto, Harwanto, D., dan Liu, T. 2021. Molecular identification of gracilaria species (Gracilariales, rhodophyta) obtained from the South Coast of Java Island, Indonesia. *Biodiversitas*. **22**(7): 3046–3056.
- Mioduchowska, M., Czyz, M. J., Gołdyn, B., Kur, J., dan Sell, J. 2018. Instances of Erroneous DNA barcoding of Metazoan Invertebrates: Are Universal COX1 Gene Primers too “Universal”? *PLoS ONE*. **13**(6): 1–16.
- Mishra, A. K. 2018. Sargassum, Gracilaria and Ulva Exhibit Positive Antimicrobial Activity against Human Pathogens. *OALib*. **05**(01): 1–11.
- Moreta, C. dan Tena, M. T. 2015. Determination of plastic additives in packaging by liquid chromatography coupled to high resolution mass spectrometry. *Journal of Chromatography A*. **1414**: 77–87.
- Mouritsen, O. G. 2013. Seaweeds are Marine algae, Seaweeds: Edible, Available, and Sustainable, 1 st ed. The University of Chicago Press, Chicago. 66 p.
- Ningrum, A. M. dan Chasani, A. R. 2021. Numerical Phenetic and Phylogenetic Relationships in Silico among Brown Seaweeds (Phaeophyceae) from Gunungkidul, Yogyakarta, Indonesia. *Biodiversitas*. **22**(6): 3057–3064.
- Nugroho, R. P., Budiharjo, A., dan Kusdiyantini, E. 2015. Bioprospeksi dan Identifikasi Molekuler Bakteri yang Berasosiasi dengan Alga Hijau sebagai Penghasil Senyawa Antibakteri Bioprospecting and Molecular-Based Identification of Green Algae - Associated Bacteria as an Antibacterial Compound Producer. *Seminar Nasional Konservasi dan Pemanfaatan Sumberdaya Alam*. **1**(1): 50–54.

- Oei, I. 2005. Riset Sumber Daya Manusia: Cara Praktis Mengukur Stres, Kepuasan Kerja, Komitmen, Loyalitas, Motivasi Kerja dan Aspek-aspek Kerja Karyawan Lainnya. PT Gramedia Pustaka Utama, Jakarta. 269 hal.
- Okagu, I. U., Ndefo, J. C., Aham, E. C., dan Udenigwe, C. C. 2021. Zanthoxylum species: A comprehensive review of traditional uses, phytochemistry, pharmacological and nutraceutical applications. *Molecules*. **26**(13): 1–38.
- Oktaviani, D. F., Nursatya, S. M., Tristiani, F., Faozi, A. N., Saputra, R. H., Nur Meinita, M. D., dan Riyanti. 2019. Antibacterial Activity from Seaweeds *Turbinaria ornata* and *Chaetomorpha antennina* Against Fouling Bacteria. *IOP Conference Series: Earth and Environmental Science*. **255**(1): 1–8.
- Patry, S. 2021. *Omics based approaches for the identification of novel bioactive secondary metabolites from marine sponge derived bacterial isolates*, University College Cork. 326 p.
- Pérez, M. J., Falqué, E., dan Domínguez, H. 2016. Antimicrobial action of compounds from marine seaweed. *Marine Drugs*. **14**(3): 1–38.
- Provan, J., Wattier, R. A., dan Maggs, C. A. 2005. Phylogeographic analysis of the red seaweed *Palmaria palmata* reveals a Pleistocene marine glacial refugium in the English Channel. *Molecular Ecology*. **14**(3): 793–803.
- Purwanti, D. A. dan Wiyanto, T. H. 2020. Ekstraksi DNA Rumput Laut *Kappaphycus alvarezii* dengan Metode Cetyl trimetyl ammonium Bromide (CTAB). *Buletin Teknik Litkayasa Akuakultur*. **18**(1): 13.
- Quitério, E., Grosso, C., Ferraz, R., Delerue-Matos, C., dan Soares, C. 2022. A Critical Comparison of the Advanced Extraction Techniques Applied to Obtain Health-Promoting Compounds from Seaweeds. *Marine Drugs*. **20**(11): 1–40.
- Ramola, B., Kumar, V., Nanda, M., Mishra, Y., Tyagi, T., Gupta, A., dan Sharma, N. 2019. Evaluation, comparison of different solvent extraction, cell disruption methods and hydrothermal liquefaction of *Oedogonium* macroalgae for biofuel production. *Biotechnology Reports*. **24**(1): 1–8.
- Reddy, M. M., De Clerck, O., Leliaert, F., Anderson, R. J., dan Bolton, J. J. 2020. An Appraisal of The Genus *Pyropia* (Bangiales, Rhodophyta) from Southern Africa Based on A Multi-Gene Phylogeny, Morphology and Ecology, Including the Description of *Pyropia meridionalis* sp. nov. *South African Journal of Botany*. **131**(1): 18–32.
- Ren, Y., Porazinska, D. L., Ma, Q., Liu, S., Li, H., dan Qing, X. 2024. A Single Degenerated Primer Significantly Improves COX1 Barcoding Performance in Soil Nematode Community Profiling. *Soil Ecology Letters*. **6**(2): 1–14.
- Risjani, Y. dan Abidin, G. 2020. Genetic Diversity and Similarity Between Green and Brown Morphotypes of *Kappaphycus alvarezii* Using RAPD. *Journal of*

Applied Phycology. **32**(4): 2253–2260.

- Robinson, B. J. O., Morley, S. A., Rizouli, A., Sarantopoulou, J., Gkafas, G. A., Exadactylos, A., dan Küpper, F. C. 2022. New confirmed depth limit of Antarctic macroalgae: *Palmaria decipiens* found at 100 m depth in the Southern Ocean. *Polar Biology*. **45**(8): 1459–1463.
- Rogers, K. 2011. *Fungi, Algae, and Protist: Biochemistry, Cells, and Life*. Britannica Educational Publishing, New York. 203 p.
- Russo, C. A. de M. dan Selvatti, A. P. 2018. Bootstrap and Rogue Identification Test for Phylogenetic Analyses. *Molecular Biology and Evolution*. **35**(9): 2327–2333.
- Sayers, E. W., Bolton, E. E., Brister, J. R., Canese, K., Chan, J., Comeau, D. C., Connor, R., Funk, K., Kelly, C., Kim, S., Madej, T., Marchler-Bauer, A., Lanczycki, C., Lathrop, S., et al. 2022. Database resources of the national center for biotechnology information. *Nucleic Acids Research*. **50**(1): 20–26.
- Selim, M. S. M., Abdelhamid, S. A., dan Mohamed, S. S. 2021. Secondary metabolites and biodiversity of actinomycetes. *Journal of Genetic Engineering and Biotechnology*. **19**(1): 1–13.
- Sinurat, A. A. P., Renta, P. P., Herliany, N. E., Negara, B. F., dan Purnama, D. 2019. Uji Aktivitas Antibakteri Ekstrak Metanol Rumput Laut *Gracilaria edulis* Terhadap Bakteri *Aeromonas hydrophila*. *Jurnal Enggano*. **4**(1): 105–114.
- Siregar, A. F., Sabdono, A., dan Pringgenies, D. 2012. Potensi Antibakteri Ekstrak Rumput Laut Terhadap Bakteri Penyakit Kulit *Pseudomonas aeruginosa*, *Staphylococcus epidermidis*, dan *Micrococcus luteus* Angelina. *Journal of Marine Research*. **1**(2): 152–160.
- Sirri, Y., Warouw, V., Rumengan, I. F. M., Paransah, D. S., Undap, S. L., dan Ginting, E. L. 2022. Isolasi dan Uji Aktivitas Antibakteri dari Bakteri Endofit Simbion pada Rumput Laut *Gracilaria verrucosa* Asal Pantai Batu Meja Tongkaina, Sulawesi Utara. *Jurnal Ilmiah Platax*. **10**(2): 424–432.
- Sophian, A., Utaminingsih, S., dan Utami, S. D. 2023. Analysis of the Quality of Isolated DNA in the Making of Guinea Pig DNA Test Standards. **15**(2): 2021–2024.
- Strano-Rossi, S., Odoardi, S., Castrignanò, E., Serpelloni, G., dan Chiarotti, M. 2015. Liquid chromatography-high resolution mass spectrometry (LC-HRMS) determination of stimulants, anorectic drugs and phosphodiesterase 5 inhibitors (PDE5I) in food supplements. *Journal of Pharmaceutical and Biomedical Analysis*. **106**: 144–152.
- Le Strat, Y., Mandin, M., Ruiz, N., Robiou du Pont, T., Ragueneau, E., Barnett, A., Déléris, P., dan Dumay, J. 2023. Quantification of Xylanolytic and Cellulolytic Activities of Fungal Strains Isolated from *Palmaria palmata* to Enhance R-Phycoerythrin Extraction of *Palmaria palmata*: From Seaweed to Seaweed.

Marine Drugs. **21**(7): 1–17.

- Suhendra, N., Hamdani, H., Hasan, Z., dan Sahidin, A. 2019. Struktur Komunitas Makroinvertebrata Di Wilayah Pantai Berkarang Karapyak Pesisir Pangandaran. *Jurnal Perikanan dan Kelautan*. **10**(1): 103–110.
- Sultanat, Dar, A. M., Rizvi, A., dan Naseem, I. 2014. Synthesis, evaluation and docking studies of cholecalciferol derivative. *Oriental Journal of Chemistry*. **30**(3): 1111–1118.
- Thien, V. Y., Yong, W. T. L., Anton, A., dan Chin, G. J. W. L. 2020. A multiplex PCR method for rapid identification of commercially important seaweeds *Kappaphycus alvarezii*, *Kappaphycus striatus* and *Euचेuma denticulatum* (Rhodophyta, Solieriaceae). *Regional Studies in Marine Science*. **40**(101499): 1–32.
- Toy, T. S. S., Lampus, B. S., dan Hutagalung, B. S. P. 2015. Uji Daya Hambat Ekstrak Rumpun Laut *Gracilaria* Sp Terhadap Pertumbuhan Bakteri *Staphylococcus Aureus*. *e-GIGI*. **3**(1): 153–159.
- Turupadang, W. dan Johanis, M. 2023. Molecular Networking to Screen Macroalgal Secondary Metabolites: Case for West Timor Macroalgae. *Indonesian Journal of Chemical Research*. **10**(3): 203–211.
- Vestikowati, E. 2018. Teknik Pengembangan Objek Wisata Pantai Karapyak Kabupaten Pangandaran. *Artikel Ilmiah*. **4**(2): 53–60.
- Videgar, N., Toplak, N., dan Kuntner, M. 2014. Streamlining DNA barcoding protocols: Automated DNA extraction and a new *cox1* primer in arachnid systematics. *PLoS ONE*. **9**(11): 1–12.
- Wang, X., Guo, M., Yan, S., Wang, Y., Sun, Z., Xia, B., dan Wang, G. 2023a. Diversity of Gracilariaceae (Rhodophyta) in China: An integrative morphological and molecular assessment including a description of *Gracilaria tsengii* sp. nov. *Algal Research*. **71**(103074): 1–18.
- Wang, S., Lin, L., Shi, Y., Qian, W., Li, N., Yan, X., Zou, H., dan Wu, M. 2020. First Draft Genome Assembly of the Seaweed *Sargassum fusiforme*. *Frontiers in Genetics*. **11**: 1–5.
- Wang, Y., Zhou, L., Chen, M., Liu, Y., Yang, Y., Lu, T., Ban, F., Hu, X., Qian, Z., Hong, P., dan Zhang, Y. 2023b. Mining Xanthine Oxidase Inhibitors from an Edible Seaweed *Pterocladia capillacea* by Using In Vitro Bioassays , Affinity. *Marine Drugs*. **21**(502): 1–18.
- Welfalini, S. T., Suartha, I. N., dan Sudipa, P. H. 2022. Uji Daya Hambat Eko-enzim terhadap Perumbuhan Bakteri *Streptococcus* spp. yang Diisolasi dari Jaringan Ektodermal Kulit Anjing. *Buletin Veteriner Udayana*. **15**(2): 169–176.
- Werner, A. dan Dring, M. 2011. *Aquaculture Explained* Principal authors

- Aquaculture Explained Cultivating *Palmaria palmata*. *Irish Sea Fisheries Board*. (27): 85.
- Wibowo, J. T., Kellermann, M. Y., Versluis, D., Putra, M. Y., Murniasih, T., Mohr, K. I., Wink, J., Engelmann, M., Praditya, D. F., Steinmann, E., dan Schupp, P. J. 2019. Biotechnological potential of bacteria isolated from the sea cucumber *holothuria leucospilota* and *stichopus vastus* from lampung, Indonesia. *Marine Drugs*. **17**(11).
- Widodo, R. W., Subagiyo, S., dan Pramesti, R. 2019. Aktivitas Antibakteri Ekstrak Metanol Rumput Laut *Gracilaria verrucosa*, Greville, 1830 (Florideophyceae : Gracilariaceae) di Balai Besar Perikanan Budidaya Air Payau Jepara. *Journal of Marine Research*. **8**(3): 285–290.
- Widyartini, D. S., Hidayah, H. A., dan Insan, A. I. 2023. Diversity and distribution pattern of bioactive compound potential seaweed in Menganti Beach, Central Java, Indonesia. *Biodiversitas*. **24**(2): 1125–1135.
- Wojdyło, A. dan Nowicka, P. 2021. Profile of phenolic compounds of *prunus armeniaca* L. Leaf extract determined by LC-ESI-QTOF-MS/MS and their antioxidant, anti-diabetic, anti-cholinesterase, and anti-inflammatory potency. *Antioxidants*. **10**(12).
- Yang, Y., Zhang, M., Alalawy, A. I., Almutairi, F. M., Al-Duais, M. A., Wang, J., dan Salama, E. S. 2021. Identification and characterization of marine seaweeds for biocompounds production. *Environmental Technology and Innovation*. **24**: 101848.
- Yudiati, E., Nugroho, A. A., Sedjati, S., Arifin, Z., dan Ridlo, A. 2021. The Agar Production, Pigment and Nutrient Content in *Gracilaria* sp. Grown in Two Habitats with Varying Salinity and Nutrient Levels. *Jordan Journal of Biological Sciences*. **14**(4): 755–761.
- Zeng, K., Geerlof-Vidavisky, I., Gucinski, A., Jiang, X., dan Boyne, M. T. 2015. Liquid Chromatography-High Resolution Mass Spectrometry for Peptide Drug Quality Control. *AAPS Journal*. **17**(3): 643–651.
- Zhang, Q. W., Lin, L. G., dan Ye, W. C. 2018. Techniques for extraction and isolation of natural products: A comprehensive review. *Chinese Medicine (United Kingdom)*. **13**(1): 1–26.
- Zuccarello, G. C. dan Paul, N. A. 2019. A beginner's guide to molecular identification of seaweed. *Squalen Bulletin of Marine and Fisheries Postharvest and Biotechnology*. **14**(1): 43–53.
- Zwerger, M. J., Hammerle, F., Siewert, B., dan Ganzera, M. 2023. Application of feature-based molecular networking in the field of algal research with special focus on mycosporine-like amino acids. *Journal of Applied Phycology*. **35**(3): 1377–1392.