

## DAFTAR PUSTAKA

- Abraham, E., & Chain, E. (1940). An Enzyme from Bacteria Able to Destroy Penicillin. In *Journal of Pressure Vessel Technology, Transactions of the ASME*. Nature. <https://doi.org/10.1115/1.3264316>
- Al-Yamani, F. Y., Polikarpov, I., Al-Ghunaim, A., & Mikhaylova, T. (2014). Field Guide of Marine Macroalgae (Chlorophyta, Rhodophyta, Phaeophyceae) of Kuwait. In *Kuwait Institute for Scientific Research (Publisher)*. ISBN.
- Alves, A. M., Gestinari, L. M. d S., Oliveira, I. S. d, Brito, K. L. m, & Moura, C. W. d N. (2012). The Genus Cladophora (Chlorophyta) in The Littoral of Bahia, Brazil. *Nova Hedwigia*, 95(3–4), 372. <https://doi.org/10.1127/0029-5035/2012/0025>
- Anderson, K., Close, L., DeWreede, R. E., Lynch, B. J., Ormond, C., & Walker, M. (2006). Biomechanical Properties and Holdfast Morphology Of Coenocytic Algae (*Halimedales*, Chlorophyta) in Bocas del Toro, Panama. *Journal of Experimental Marine Biology and Ecology*, 328(2), 155–167. <https://doi.org/10.1016/j.jembe.2005.07.005>
- Andriani, Y., Rochima, E., Safitri, R., & Rahayuningsih, S. R. (2017). Characterization of *Bacillus megaterium* and *Bacillus mycoides* Bacteria as Probiotic Bacteria in Fish and Shrimp Feed. *KnE Life Sciences*, 2(6), 127.
- Anjali, K. P., Sangeetha, B. M., Devi, G., Raghunathan, R., & Dutta, S. (2019). Bioprospecting of Seaweeds (*Ulva lactuca* and *Stoechospermum marginatum*): The compound Characterization and Functional Applications in Medicine-a Comparative Study. *Journal of Photochemistry and Photobiology B: Biology*, 200(August), 111622. <https://doi.org/10.1016/j.jphotobiol.2019.111622>
- Arisandi, A., Farid, A., & Rokhmaniati, S. (2013). Pertumbuhan *Kappaphycus alvarezii* yang Terkontaminasi Epifit di Perairan Sumenep. *Jurnal Kelautan*, 6(2), 111–119.
- Atanasov, A. G., Waltenberger, B., Pferschy-Wenzig, E. M., Linder, T., Wawrosch, C., Uhrin, P., Temml, V., Wang, L., Schwaiger, S., Heiss, E. H., Rollinger, J. M., Schuster, D., Breuss, J. M., Bochkov, V., Mihovilovic, M. D., Kopp, B., Bauer, R., Dirsch, V. M., & Stuppner, H. (2015). Discovery and Resupply of Pharmacologically Active Plant-Derived Natural Products: A review. *Biotechnology Advances*, 33(8), 1582–1614. <https://doi.org/10.1016/j.biotechadv.2015.08.001>
- Bergman, M., Nyberg, S. T., Huovinen, P., Paakkari, P., & Hakanen, A. J. (2009). Association between Antimicrobial Consumption and Resistance in *Escherichia coli*. *Antimicrobial Agents and Chemotherapy*, 53(3), 912–917. <https://doi.org/10.1128/AAC.00856-08>
- Bintari, Y. R., & Elyani, H. (2017). Ekstraksi Senyawa Bioaktif dari Cladophora sp. dengan Metode Solvent Free Microwave Assisted Extraction (SFMAE). *JIMR-Journal of Islamic Medicine Research JIMR* |, 1(1), 1–11.

- Brooks, G. F., Butel, J. S., & Morse, S. A. (2008). *Mikrobiologi Kedokteran* (23rd ed.). EGC.
- Davidson, P. M., Sofos, J. N., & Branen, A. L. (2005). *Antimicrobials in Food*. CRC Press.
- Davis, W. W., & Stout, T. R. (1971). Disc Plate Methods of Microbiological Antibiotic Assay. *Applied Microbiology*, 22(1), 659–665.
- Deveau, A. M., Miller-Hope, Z., Lloyd, E., Williams, B. S., Bolduc, C., Meader, J. M., Weiss, F., & Burkholder, K. M. (2016). Antimicrobial Activity of Extracts from Macroalgae *Ulva lactuca* Against Clinically Important *Staphylococci* is Impacted by Lunar Phase of Macroalgae Harvest. *Letters in Applied Microbiology*, 62(5), 363–371. <https://doi.org/10.1111/lam.12563>
- Dewi, S. R., Argo, B. D., & Ulya, N. (2018). Kandungan Flavonoid dan Aktivitas Antioksidan Ekstrak *Pleurotus ostreatus*. *Jurnal Rona Teknik Pertanian*, 11(1), 1–10.
- Dhargalkar, V. K., & Pereira, N. (2005). Seaweed: Promosing Plant of The Millennium. *Science and Culture*, 71(3–4), 60–66. [https://doi.org/10.1016/0141-0229\(86\)90121-3](https://doi.org/10.1016/0141-0229(86)90121-3)
- Dimara, L., & Yenusi, T. N. B. (2011). Uji Aktivitas Antibakteri dan Antioksidan Ekstrak Pigmen Klorofil Rumput Laut *Caulerpa racemosa* (Forsskal) J. Agardh. *Jurnal Biologi Papua*, 3(2), 53–58.
- Dorland, W. A. N. (2010). *Kamus Kedokteran Dorland Edisi 31* (A. A. Mahode (ed.); 31st ed.). Elsevier.
- Elmegeed, D. F. A., Ghareeb, D. A., Elsayed, M., & El-saadani, M. (2014). Phytochemical Constituents and Bioscreening Activities of Green Algae (*Ulva lactuca*). *International Journal of Agricultural Policy and Research*, 2(11), 373–378.
- Endarini, L. H. (2016). *Farmakologi dan Fitokimia*. Kemkes Indonesia.
- Faradilla, F., Nikmah, F., Putri, A. D., Agustin, G. A., Nurkaromah, L., Febrianti, M. W., Budhiman, M. A., Salamah, U., & Chasani, A. R. (2022). Macroalgae Diversity at Porok Beach, Gunungkidul, Yogyakarta, Indonesia. *Journal of Agriculture and Applied Biology*, 3(1), 50–61. <https://doi.org/10.11594/jaab.03.01.06>
- Gao, X., Endo, H., & Agatsuma, Y. (2018). Seasonal Changes in Photosynthesis, Growth, Nitrogen Accumulation, and Salinity Tolerance of *Chaetomorpha crassa* (Cladophorales, Chlorophyceae). *Journal of Applied Phycology*, 30(3), 1905–1912. <https://doi.org/10.1007/s10811-017-1381-2>
- Gazali, M., Zamani, N. P., & Nurjanah. (2019). The Potency of Green Algae *Chaetomorpha crassa* Agardh as Antioxidant Agent from The Coastal of Lhok Bubon, West Aceh. *IOP Conference Series: Earth and Environmental Science*, 278(1), 1–11. <https://doi.org/10.1088/1755-1315/278/1/012029>
- Hadisusanto, S., Dewi, S. C., Meilianda, A., Haryatfrehni, R., & Sari, I. Z. R. (2015). Macroalgal Abundance in Intertidal Zone of Sarangan Beach, Gunungkidul, DIY. *KnE Life Sciences*, 2(1), 518.

- Hanifah, S., Sahidin, A., Hamdani, H., & Yuliadi, L. P. S. (2019). Diversity of Chlorophyta on Karapyak Beach, Pangandaran, West Java Province, Indonesia. *World Scientific News*, 117, 158–174.
- Hansman, D., Devitt, L., Miles, H., & Riley, I. (1974). Pneumococci Relatively Insensitive to Penicillin in Australia and New Guinea. *The Medical Journal of Australia*, 2(10), 353–356. <https://doi.org/10.5694/j.1326-5377.1974.tb70836.x>
- Harborne, J. B. (1987). *Metode Fitokimia: Penuntun Cara Modern Menganalisis Tumbuhan*. ITB.
- Hay, M. E. (1996). Marine Chemical Ecology: What's Known and What's Next? *Journal of Experimental Marine Biology and Ecology*, 200(1–2), 103–134. [https://doi.org/10.1016/S0022-0981\(96\)02659-7](https://doi.org/10.1016/S0022-0981(96)02659-7)
- Hessling, M., Feiertag, J., & Höenes, K. (2017). Pathogens Provoking Most Deaths Worldwide. *Bioscience Biotechnology Research Communications*, 10(2), 1–7.
- Holdt, S. L., & Kraan, S. (2011). Bioactive Compounds in Seaweed: Functional Food Applications and Legislation. *J Appl Phycol*, 23(3), 1–56.
- Hutomo, M., & Moosa, M. K. (2005). Indonesian Marine and Coastal Biodiversity: Present Status. *Indian Journal of Marine Sciences*, 34(1), 88–97.
- Ibrahim, Y., Surtikanti, H. K., & Adianto. (2014). Analisis Keragaman Biota dan Faktor Fisika-Kimia Pantai Karapyak Pangandaran untuk Kebutuhan Pengembangan Kuliah Lapangan Terpadu Mahasiswa Calon Guru Biologi. *Proceeding Biology Education Conference: Biology, Science, Environmental, and Learning*, 11(1), 740–744.
- Irwandi, Salwiyah, & Nurgayah, W. (2017). Struktur Komunitas Makroalga pada Substrat yang Berbeda di Perairan Desa Tanjung Tiram Kecamatan Moramo Utara Kabupaten Konawe Selatan Provinsi Sulawesi Tenggara. *Jurnal Manajemen Sumber Daya Perairan*, 2(3), 215–224.
- Istia'nah, D., Utami, U., & Barizi, A. (2020). Karakterisasi Enzim Amilase dari Bakteri *Bacillus megaterium* pada Variasi Suhu, pH dan Konsentrasi Substrat. *Jurnal Riset Biologi Dan Aplikasinya Aplikasinya*, 2(1), 11.
- Julianto, T. S. (2019). *Fitokimia: Tinjauan Metabolit Sekunder dan Skrining Fitokimia* (Buku ajar). UII.
- Juneidi, A. W. (2004). *Rumput laut, Jenis dan Morfologisnya* (Perikanan). Departemen Pendidikan Nasional.
- Kaharap, A. D., Mambo, C., & Nangoy, E. (2016). Uji Efek Antibakteri Ekstrak Batang Akar Kuning (*Arcangelisia flava* Merr.) terhadap Bakteri *Staphylococcus aureus* dan *Escherichia coli*. *Jurnal E-Biomedik*, 4(1), 1–4.
- Kazi, M. A., Kavale, M. G., & Singh, V. V. (2016). Morphological and Molecular Characterization of *Ulva chaugulii* sp. Nov., *U. lactuca* and *U. ohnoi* (*Ulvophyceae*, Chlorophyta) from India. *Phycologia*, 55(1), 45–54. <https://doi.org/10.2216/15-11.1>
- Keintjem, B., Wewengkang, D. S., & Fatimawali, F. (2019). Aktivitas Penghambatan Pertumbuhan Mikroorganisme dari Ekstrak dan Fraksi Alga

- Ulva lactuca* terhadap *Escherichia coli*, *Staphylococcus aureus*, *Candida albicans*. *Pharmacon*, 8(2), 397. <https://doi.org/10.35799/pha.8.2019.29306>
- Kereh, G. V., Kusnandar, F., Wibawan, I. W. T., & Nahrowi. (2018). Karakteristik Kimia Ekstrak Rumput Laut serta Kemampuannya menghambat Bakteri *Salmonella* sp. *Jurnal Veteriner*, 19(4), 467–477. <https://doi.org/10.19087/jveteriner.2018.19.4.467>
- Khakim, L., & Rini, C. S. (2018). Identifikasi *Escherichia coli* dan *Salmonella* sp. pada Air Kolam Renang Candi Pari. *Medicra (Journal of Medical Laboratory Science Atau Tecnology)*, 1(2), 84–93.
- Koornhof, H. J., Wasas, A., & Klugman, K. (1992). Antimicrobial Resistance in *Streptococcus pneumoniae*: A South African Perspective. *Clinical Infectious Diseases*, 15(1), 84–94. <https://doi.org/10.1093/clinids/15.1.84>
- Kumar, C. S., Ganesan, P., Suresh, P. V., & Bhaskar, N. (2008). Seaweeds as a Source of Nutritionally Beneficial Compounds - A review. *Journal of Food Science and Technology*, 45(1), 1–13.
- Kurniawati, I., Maftuch, & Hariati, A. M. (2016). Penentuan Pelarut dan Lama Ekstraksi Terbaik pada Teknik Maserasi *Gracilaria* sp. serta Pengaruhnya terhadap Kadar Air dan Rendemen. *Samakia: Jurnal Ilmu Perikanan*, 7(2), 72–77.
- Kusmiyati, & Agustini, N. W. S. (2007). Uji Aktivitas Senyawa Antibakteri dari Mikroalga *Porphyridium cruentum*. *Biodiversitas*, 8(1), 48–53.
- Lantah, P. L., Montolalu, L. A. D. Y., & Reo, A. R. (2017). Kandungan Fitokimia dan Aktivitas Antioksidan Ekstrak Metanol Rumput Laut *Kappaphycus alvarezii*. *Jurnal Media Teknologi Hasil Perikanan*, 5(3), 73–79.
- Lay, B. W. (1994). *Analisis Mikroba di Laboratorium*. PT. Rajagrafindo Persada.
- Leliaert, F., & Coppejans, E. (2003). The Marine Species of *Cladophora* (Chlorophyta) from the South African East Coast. *Nova Hedwigia*, 76(1–2), 82. <https://doi.org/10.1127/0029-5035/2003/0076-0045>
- Leliaert, F., D'hondt, S., Tyberghein, L., Verbruggen, H., & De Clerck, O. (2011). Atypical Development of *Chaetomorpha antennina* in Culture (Cladophorales, Chlorophyta). *Phycological Research*, 59(2), 91–97. <https://doi.org/10.1111/j.1440-1835.2010.00604.x>
- Leliaert, F., Smith, D. R., Moreau, H., Herron, M. D., Verbruggen, H., Delwiche, C. F., & De Clerck, O. (2012). Phylogeny and Molecular Evolution of the Green Algae. *Critical Reviews in Plant Sciences*, 31(1), 1–46. <https://doi.org/10.1080/07352689.2011.615705>
- Li, W., Wang, K., Jiang, N., Liu, X., Wan, M., Chang, X., Liu, D., Qi, H., & Liu, S. (2018). Antioxidant and Antihyperlipidemic Activities of Purified Polysaccharides from *Ulva pertusa*. *Journal of Applied Phycology*, 30(4), 2619–2627.
- Liswandari, M. S., Lantang, D., & Dirgantara, S. (2018). Uji Aktivitas Antibakteri Alga Coklat Jenis *Padina* sp. dari Pantai Sorido Biak terhadap Bakteri *Staphylococcus aureus* dan *Shigella dysenteriae*. *Pharmacy Medical Journal*, 1(1),

9–15.

- Lobanovska, M., & Pilla, G. (2017). Penicillin's Discovery and Antibiotic Resistance: Lessons for the Future. *Yale Journal of Biology and Medicine*, 90, 135–145. <https://doi.org/10.1103/PhysRevA.32.435>
- Lorian, V. (1980). Antibiotics in Laboratory Medicine. In *Clinical Infectious Diseases*.
- Ma'rufin, R., Risandiansyah, R., & Bintari, Y. R. (2022). Studi In Silico: Potensi Antibakteri Senyawa Aktif *Cladophora* sp. terhadap PBP 2 dan PBP 2a *Staphylococcus aureus* (Issue 193). Universitas Islam Malang.
- Madigan, M. T., Martinko, J. M., Stahl, D. A., & Clark, D. P. (2006). *Brock Biology of Microorganisms 13th Edition* (13th ed.). Pearson Education International.
- Maemunah, I., Suparka, E., Puspito, N. T., & Hidayati, S. (2015). Sedimentary Deposits Study of the 2006 Java Tsunami, in Pangandaran, West Java (Preliminary Result). *AIP Conference Proceedings*, 1658, 1–15.
- Malo, A., Salosso, Y., & Sunandji. (2018). Kandungan Senyawa Aktif Makroalga yang Diambil di Perairan Pantai Arubara Kabupaten Ende. *Jurnal Akuatik*, 1(1), 91–97.
- Marraskuranto, E., Nursid, M., Utami, S., Setyaningsih, I., & Tarman, K. (2021). Kandungan Fitokimia, Potensi Antibakteri dan Antioksidan Hasil Ekstraksi *Caulerpa racemosa* dengan Pelarut Berbeda. *JPB Kelautan Dan Perikanan*, 16(1), 1–11.
- Masela, A. (2021). Kandungan Senyawa Fitokimia Ekstrak Kasar Rumput Laut *Ulva conglubata* menggunakan N-heksan, Etil asetat dan Metanol. *Journal Sekolah Tinggi Ilmu Ekonomi Saumlaki*, 3(1), 1–13.
- Messyasz, B., & Rybak, A. (2011). Abiotic Factors Affecting the Development of *Ulva* sp. (*Ulvophyceae*; Chlorophyta) in Freshwater Ecosystems. *Aquatic Ecology*, 45(1), 75–87. <https://doi.org/10.1007/s10452-010-9333-9>
- Michalak, I., & Messyasz, B. (2021). Concise Review of *Cladophora* spp.: Macroalgae of Commercial Interest. *Journal of Applied Phycology*, 33(1), 133–166. <https://doi.org/10.1007/s10811-020-02211-3>
- Mishra, J. K., Srinivas, T., Madhusudan, T., & Sawhney, S. (2016). Antibacterial Activity of Seaweed *Halimeda opuntia* from The Coasts of South Andaman. *Global Journal of Bio-Science and Biotechnology*, 5(3), 345–348.
- Mukhriani. (2014). Ekstraksi, Pemisahan Senyawa, dan Identifikasi Senyawa Aktif. *Jurnal Kesehatan*, VII(2), 361–367.
- Mutmainnah, B. (2017). Skrining Fitokimia Senyawa Metabolit Sekunder dari Ekstrak Etanol Buah Delima (*Punica granatum* L.) dengan Metode Uji Warna. *Media Farmasi*, XIII(2), 1–8.
- Nagappan, T., & Vairappan, C. S. (2014). Nutritional and Bioactive Properties of Three Edible Species of Green Algae, Nutritional and Bioactive Properties of Three Edible Species of Green Algae, Genus *Caulerpa* (*Caulerpaceae*). *J Appl Phycol* (2014), 26, 1019–1027.

- Newman, D. J., & Cragg, G. M. (2020). Natural Products as Sources of New Drugs over the Nearly Four Decades from 01/1981 to 09/2019. *Journal of Natural Products*, 83(3), 770–803. <https://doi.org/10.1021/acs.jnatprod.9b01285>
- Nordmann, P. (1998). Trends in  $\beta$ -lactam Resistance among *Enterobacteriaceae*. *Clinical Infectious Diseases*, 27(SUPPL.1), 100–106. <https://doi.org/10.1086/514905>
- Nufus, C., Nurjanah, & Abdullah, A. (2017). Karakteristik Rumput Laut Hijau dari Perairan Kepulauan Seribu dan Sekotong Nusa Tenggara Barat sebagai Antioksidan. *Jurnal Pengolahan Hasil Perikanan Indonesia*, 20(3), 620–632.
- Nugraha, S., Humairani, Huriyah, S. B., & Kurniawati, E. (2022). Karakteristik Kandungan Kimia dan Komponen Bioaktif Rumput Laut Hijau *Halimeda* sp. dari Kepulauan Seribu. *Jurnal Fistech*, 11(2), 89–98.
- Oktaviani, D. F., Nursatya, S. M., Tristiani, F., Faozi, A. N., Saputra, R. H., Meinita, M. D. N., & Riyanti. (2019). Antibacterial Activity from Seaweeds *Turbinaria ornata* and *Chaetomorpha antennina* Against Fouling Bacteria. *Earth and Environmental Science*, 255, 1–8.
- Paterson, D. L. (2006). Resistance in Gram-negative Bacteria: *Enterobacteriaceae*. *American Journal of Infection Control*, 34(5 SUPPL.), 20–28. <https://doi.org/10.1016/j.ajic.2006.05.238>
- Paul, V. J., & Puglisi, M. P. (2004). Chemical Mediation of Interactions Among Marine Organisms. *Natural Product Reports*, 21(1), 189–209. <https://doi.org/10.1039/b302334f>
- Pérez, M. J., Falqué, E., & Domínguez, H. (2016). Antimicrobial Action of Compounds from Marine Seaweed. *Marine Drugs*, 14(3), 1–38.
- Pramesti, R., Susanto, A., S, W. A., Ridlo, A., Subagyo, S., & Oktaviaris, Y. (2016). Struktur Komunitas dan Anatomii Rumput Laut di Perairan Teluk Awur, Jepara dan Pantai Krakal, Yogyakarta. *Jurnal Kelautan Tropis*, 19(2), 81.
- Radiarta, I. N., Erlania, E., & Rusman, R. (2013). Pengaruh Iklim terhadap Musim Tanam Rumput Laut, *Kappaphycus alvarezii* di Teluk Gerupuk Kabupaten Lombok Tengah, Nusa Tenggara Barat. *Jurnal Riset Akuakultur*, 8(3), 453–464. <https://doi.org/10.15578/jra.8.3.2013.453-464>
- Radiena, M. S. Y., Moniharapon, T., & Setha, B. (2019). Aktivitas Antibakteri Ekstrak Etil Asetat Alga Hijau Silpau (*Dictyosphaeria versluysii*) terhadap Bakteri *Escherichia coli*, *Pseudomonas aeruginosa* dan *Staphylococcus aureus*. *Majalah Biam*, 15(01), 41–49.
- Rahayu, W. P., Nurjanah, S., & Komalasari, E. (2018). *Escherichia coli: Patogenitas, Analisis dan Kajian Resiko*. IPB Press.
- Rahmawatiani, A., Mayasari, D., & Narsa, A. C. (2020). Kajian Literatur: Aktivitas Antibakteri Ekstrak Herba Suruhan (*Peperomia pellucida* L.). In *Proceeding of Mulawarman Pharmaceuticals Conferences* (Issue 12). <http://prosiding.farmasi.unmul.ac.id/index.php/mpc/article/view/416/399>
- Rammelkamp, C. H., & Maxon, T. (1942). Resistance of *Staphylococcus aureus* to

- the Action of Penicillin. *Proceedings of the Society for Experimental Biology and Medicine*, 51(3), 386–389. <https://doi.org/10.3181/00379727-51-13986>
- Rini, C. S., & Rochmah, J. (2020). *Buku Ajar: Bakteriologi Dasar* (M. Mushlih (ed.)). UMSIDA Press.
- Rompas, I. F. X., & Gasah, O. (2022). Efektifitas Ekstrak Rumput Laut Hijau (*Ulva lactuca*) terhadap Aktivitas Antioksidan sebagai Sumber Pangan Berkelanjutan. *BIO-EDU: Jurnal Pendidikan Biologi*, 7(3), 172–189. <https://doi.org/10.32938/jbe.v7i3.1917>
- Rukminingsih, Adnan, G., & Latief, M. A. (2020). *Metode Penelitian Pendidikan: Penelitian Kuantitatif, Penelitian Kualitatif, Penelitian Tindakan Kelas* (M. & Ardi (ed.)). CV. Bumi Maheswari.
- Rusli, A., Metusalach, Tahir, M. M., Salengke, & Syamsuar. (2016). Analysis of Bioactive Compounds of *Caulerpa recemosa*, *Sargassum* sp. and *Gracilaria verrucosa* using Different Solvents. *Jurnal Teknologi*, 78(4-2), 15–19.
- Sahayaraj, K., Asharaja, A. C., Rajesh, S., & Martin Rathi, J. A. (2014). Qualitative and Quantitative Profiles of Secondary Metabolites of Chosen Chlorophyta and Ochrophyta from Gulf of Mannor. *Cahiers de Biologie Marine*, 55(1), 69–76.
- Sahidin, A., Zahidah, Hamdani, H., Riyantini, I., & Sewiko, R. (2018). The Biodiversity of Gastropods In Karapyak Rocky Shores, Pangandaran Region, West Java Province, Indonesia. *Omni-Akuatika*, 14(2), 1–26.
- Sandle, T. (2021). Assessing Gram-stain Error Rates within The Pharmaceutical Microbiology Laboratory. *European Journal of Parenteral and Pharmaceutical Sciences*, 25(1), 1–14.
- Santoso, I., Rina, Y. B., & Fadli, Z. (2018). Uji Aktivitas Antibakteri dari Dekokta dan Ekstrak Kloroform Alga *Cladophora* sp. pada Bakteri Gram Positif dan Negatif. In *Angewandte Chemie International Edition*, 6(11), 951–952. (Vol. 3, Issue 1). <https://medium.com/@arifwicaksanaa/pengertian-use-case-a7e576e1b6bf>
- Sarita, I. D. A. A. D. S., Subrata, I. M., Sumaryani, N. P., & Rai, I. G. A. (2021). Identifikasi Jenis Rumput Laut yang Terdapat Pada Ekosistem Alami Perairan Nusa Penida. *Jurnal Edukasi Matematika Dan Sains*, X(1), 141–154.
- Sartika, R., Dan, M., & Purwiyanto, A. I. S. (2013). Aktivitas Antibakteri Ekstrak Rumput Laut *Eucheuma cottoni* terhadap Bakteri *Escherichia coli*, *Staphylococcus aureus*, *Vibrio cholera* dan *Salmonella typhosa*. *Maspuri Jurnal*, 5(2), 98–103.
- Savitri, I., Suhendra, L., & Wartini, N. M. (2017). Pengaruh Jenis Pelarut pada Metode Maserasi terhadap Karakteristik Ekstrak *Sargassum polycystum*. *Jurnal Rekayasa Dan Manajemen Agroindustri*, 5(3), 93–101.
- Setyobudiandi, I., Soekendarsi, E., Juariah, U., Bahtiar, & Hari, H. (2009). *Rumput laut Indonesia Jenis dan Upaya Pemanfaatannya* (Asmadin (ed.); Seri Biota). UNHALU Press.
- Simanjutak, P. (1995). Ulas Balik Senyawa Bioaktif dari Alga. *Hayati*, 2(2), 49–54.

- Simpson, M. G. (2006). *Plant Systematics*. Elsevier.
- Sims, G. K., Sommers, L. E., & Konopka, A. (1986). Degradation of Pyridine by *Micrococcus luteus* Isolated from Soil. *Applied and Environmental Microbiology*, 51(5), 963–968.
- Sinurat, A. A. P., Renta, P. P., Herliany, N. E., Negara, B. F., & Purnama, D. (2019). Uji Antivitas Antibakteri Ekstrak Metanol Rumput Laut *Gracilaria edulis* terhadap Bakteri *Aeromonas hydrophila*. *Jurnal Enggano*, 4(1), 105–114.
- Siregar, A. F., Sabdono, A., & Pringgenies, D. (2012). Potensi Antibakteri Ekstrak Rumput Laut terhadap Bakteri Penyakit Kulit *Pseudomonas aeruginosa*, *Staphylococcus epidermidis*, dan *Micrococcus luteus*. *Journal of Marine Research*, 1(2), 152–160.
- Soamole, H. H., Sanger, G., Harikedua, S. D., Dotulong, V., Mewengkang, H. W., & Montolalu, R. I. (2018). Kandungan Fitokimia Ekstrak Etanol Rumput Laut Segar (*Turbinaria sp.*, *Gracilaria sp.*, dan *Halimeda macroloba*). *Media Teknologi Hasil Perikanan*, 6(3), 287–291.
- Sudheesh, P. S., Al-Ghabshi, A., Al-Mazrooei, N., & Al-Habsi, S. (2012). Comparative Pathogenomics of Bacteria Causing Infectious Diseases in Fish. Review Article. *International Journal of Evolutionary Biology*, 2012, 1–16.
- Suryelita, Etika, S. B., & Kurnia, N. S. (2017). Isolasi dan Karakteristik Senyawa Steroid dari Daun Cemara Natal (*Cupressus funebris* Endl.). *Eksakta*, 18(1), 86–94.
- Titlyanov, E. A., Titlyanova, T. V., Li, X., & Huang, H. (2016). Coral Reef Marine Plants of Hainan Island, Chapter 4 Common Marine Algae of Hainan Island (Guidebook). In *Coral Reef Marine Plants of Hainan Island* (Issue November 2010). Elsevier. <https://doi.org/10.1016/b978-0-12-811963-1.00004-4>
- Tong, Y. L. (1983). Some Distribution Properties of the Sample Species-Diversity Indices and their Applications. *Biometrics*, 39(4), 999–1008.
- Triastinurmiantiningsih, Ismanto, & Ertina. (2011). Variasi Morfologi dan Anatomi *Sargassum* spp. di Pantai Bayah Banten. *Ekologia*, 11(2), 1–10.
- Wahyuni, S., Gazali, M., & Kurniawan, R. (2022). Uji Sensitivitas Ekstrak Etanol *Chaetomorpha* sp. Terhadap Bakteri *Aeromonas hydrophilla* dan *Vibrio* sp. *Jurnal Natur Indonesia*, 20(2), 50. <https://doi.org/10.31258/jnat.20.2.50-54>
- Wangge, E. A. D., Oedjoe, M. S. R., & Sunadji. (2022). Pengaruh Musim Pancaroba terhadap Pertumbuhan dan Kandungan Karaginan Pada Budidaya Rumput Laut *Kappaphycus alvarezii*. *Jurnal Aquatik*, 5(1), 68–82.
- Widodo, R. W., Subagiyo, & Pramesti, R. (2019). Aktivitas Antibakteri Ekstrak Metanol Rumput Laut *Gracilaria verrucosa*, Greville, 1830 (*Florideophyceae* : *Gracilariales*) di Balai Besar Perikanan Budidaya Air Payau Jepara. *Journal of Marine Research*, 8(3), 285–290.
- Windyaswari, A. S., Elfahmi, E., Faramayuda, F., Riyanti, S., Luthfi, O. M., Ayu, I. P., Pratiwi, N. T. M., Husna, K. H. N., & Magfirah, R. (2019). Profil Fitokimia Selada Laut (*Ulva lactuca*) dan Mikro Alga Filamen (*Spirogyra* sp.) sebagai Bahan Alam Bahari Potensial dari Perairan Indonesia. *Kartika : Jurnal*

- Ilmiah Farmasi*, 7(2), 88–101. <https://doi.org/10.26874/kjif.v7i2.288>
- Yainahu, J., Mile, L., & Suherman, S. P. (2023). Analisis Rendemen dan Skrining Fitokimia Ekstrak Rumput Laut Merah (*Eucheuma spinosum*) Segar dan Kering. *Jambura Fish Processing Journal*, 5(2), 126–132.
- Yu-Qing, T., Mahmood, K., Shehzadi, R., & Ashraf, M. F. (2016). *Ulva lactuca* and Its Polysaccharides: Food and Biomedical Aspects. *Journal of Biology, Agriculture and Healthcare*, 6(1), 140–151.

