

DAFTAR PUSTAKA

- Abubakar H, Wahyudi AT, Yuhana M. 2012. Screening of Sponge Jaspis sp.-Associated Bacteria as Producer of Antimicrobial Compound. *International Journal of Medical Student* 16(1):35–40. doi:10.14710/ijms.16.1.3540.
- Alimuddin Ali dan Herlina Rante. 2023. Karakterisasi Mikrobial Rizosfer Asal Tanaman Ginseng Jawa (*Talinum triangulare*) Berdasarkan Gen Ribosomal 16S rRNA dan 18S rRNA. *Jurnal biologi papua. International Standard serial Number* (ISSN) 25030450, Volume 3 Nomor 2 Halaman: 74–81.
- Balouiri, M., Sadiki, M., & Ibensouda, S. K. 2016. Methods for in vitro evaluating antimicrobial activity: A review . *Journal of Pharmaceutical Analysis*, 6(2), 71–79. <https://doi.org/10.1016/j.jpha.2015.11.005>
- Brinkmann, C. M., Marker, A., & Kurtböke, D. I. 2017. An overview on marine sponge-symbiotic bacteria as unexhausted sources for natural product discovery. *Diversity*, 9(4). <https://doi.org/10.3390/d9040040>
- Casertano, M., Menna, M., & Imperatore, C. 2020. The ascidian-derived metabolites with antimicrobial properties. *Antibiotics*, 9(8), 1–30. <https://doi.org/10.3390/antibiotics9080510>
- Djide & sartini. 2008. Dasar-Dasar Mikrobiologi Farmasi. Lembaga penerbit universitas Hasanuddin. Makassar.
- Elias, I., & Lagergren, J. 2005. *Fast Neighbor Joining*. 1263–1264.
- Gemechu, G. W. 2024. Antibiotics Production from Fungi. *Advances in Biotechnology&Microbiology*, 18(2). <https://doi.org/10.19080/aibm.2024.18.555985>
- Goel, N., Fatima, S. W., Kumar, S., Sinha, R., & Khare, S. K. 2021. Antimicrobial resistance in biofilms: Exploring marine actinobacteria as a potential source of antibiotics and biofilm inhibitors. *Biotechnology Reports*, 30, e00613. <https://doi.org/10.1016/j.btre.2021.e00613>
- Handayani, D., & Artasasta, M. A. 2017. Antibacterial and cytotoxic activities screening of symbiotic fungi extract isolated from marine sponge Neopetrosia chaliniformis AR-01. *Journal of Applied Pharmaceutical Science*, 7(5), 66–69. <https://doi.org/10.7324/JAPS.2017.70512>
- Wahyuono, S., & Setyowati, E. P. 2020. Marine sponge th antiplasmodial properties: Focus on in vitro study against *Plasmodium falciparum*. *Journal of Applied Pharmaceutical Science*, 10(5), <https://doi.org/10.7324/JAPS.2020.10519>
- Y., Tian, W., Cui, X., Tu, P., Li, J., & Shi, S. 2022. *Flavonoid gents Derived from Medicinal Plants*.



Jabila Mary, T. R., Kannan, R. R., Iniyan, A. M., Ramachandran, D., & Prakash Vincent, S. G. 2021. Cell wall distraction and biofilm inhibition of marine Streptomyces derived angucycline in methicillin resistant Staphylococcus aureus. *Microbia.Pathogenesis*.

<https://doi.org/10.1016/j.micpath.2020.104712>

Kumari, P., Singh, A., Singh, D. K., Sharma, V. K., Kumar, J., Gupta, V. K., Bhattacharya, S., & Kharwar, R. N. 2021. Isolation and purification of bioactive metabolites from an endophytic fungus *Penicillium citrinum* of *Azadirachta indica*. *South African Journal of Botany*, 139, 449–457. <https://doi.org/10.1016/j.sajb.2021.02.020>

Li, H. L., Li, X. M., Mandi, A., Antus, S., Li, X., Zhang, P., Liu, Y., Kurtan, T., & Wang, B. G. 2017. Characterization of cladosporels from the Marine Algal-Derived Endophytic Fungus *Cladosporium cladosporioides* EN-399 and configurational revision of the previously reported cladosporel derivatives. *Journal of Organic Chemistry*, 82(19), 9946–9954. <https://doi.org/10.1021/acs.joc.7b01277>

Li, P., Lu, H., Zhang, Y., Zhang, X., Liu, L., Wang, M., & Liu, L. 2023. The natural products discovered in marine sponge-associated microorganisms: structures, activities, and mining strategy. *Frontiers in Marine Science*, 10(May), 1–10. <https://doi.org/10.3389/fmars.2023.1191858>

Mahfur, M., Kamila, A., Abidah, J. F., Samirana, P. O., Hikmawan, B. D., & Pratimasari, D. 2023. Antibacterial activity of ethyl acetate extract of symbiont fungus *Aspergillus* sp. in the sponge *Rhabdastrella* sp. from Gili Layar Island, Lombok, Indonesia. *Journal of Applied Pharmaceutical Science*, 13(11), 144–151. <https://doi.org/10.7324/JAPS.2023.146303>

Mahfur, M., Mahbub, K., Salsabila, N. S., & Istiqomah, M. N. 2023. Optimasi Waktu Fermentasi Jamur Simbion Dari Sponge *Rhabdastrella* Sp. Dan Uji Aktivitas Antibakterinya. *Jurnal Insan Farmasi Indonesia*, 6(1), 102–111. <https://doi.org/10.36387/Jifi.V6i1.1333>

Rajauria, G. 2023. Antimicrobial activity of compounds isolated from algae. In *Functional ingredients from algae for foods and nutraceuticals*. Woodhead Publishing Limited. <https://doi.org/10.1533/9780857098689.2.287>

Rante, H., Alam, G., & Usmar, U. 2022. *Isolation of Sponge Bacterial Symbionts from Kodingareng Keke Island-Makassar Indonesia Which is Potential as a Producer of Antimicrobial Compounds*. 16(March), 737–743.

Sadarun, B., Malaka, M. H., Wahyuni, W., & Sahidin, S. 2018. Senyawa Steroid spongia sp. dari Perairan Sulawesi Tenggara. *Pharmauho: nasi, Sains, Dan Kesehatan*, 4(1), 26–29. [10.33772/pharmauho.v4i1.4628](https://doi.org/10.33772/pharmauho.v4i1.4628)

ar, C. W., Wahyuni, Hamsidi, R., Malaka, M. H., Sadarun, B., . 2018. A-nor steroids from the marine sponge, *Clathria* *ysian Journal of Analytical Sciences*, 22(3), 375–382. [10.17576/mjas-2018-2203-02](https://doi.org/10.17576/mjas-2018-2203-02)



Setiawan, A., & Hendri, J. 2022. *Senyawa Bioaktif Spons: Struktur dan Bioaktivitas*.

Setyowati, E. P., Pratiwi, S. U. T., Purwantiningsih, & Samirana, P. O. 2018. Antimicrobial activity and Identification of fungus associated *Stylissa flabelliformis* sponge collected from Menjangan Island West Bali National Park, Indonesia. *Indonesian Journal of Pharmacy*, 29(2), 66–73. <https://doi.org/10.14499/indonesianjpharm29iss2pp66>

Shaala, L. A., & Youssef, D. T. A. 2021. Hemimycalins c–e; cytotoxic and antimicrobial alkaloids with hydantoin and 2-iminoimidazolidin-4-one backbones from the red sea marine sponge hemimyscale sp. *Marine Drugs*, 19(12). <https://doi.org/10.3390/md19120691>

Shady, N. H., Fouad, M. A., Kamel, M. S., Schirmeister, T., & Abdelmohsen, U. R. 2019. Natural product repertoire of the genus *Amphimedon*. *Marine Drugs*, 17(1). <https://doi.org/10.3390/md17010019>

Singh, L. P., Gill, S. S., & Tuteja, N. 2011. Unraveling the role of fungal symbionts in plant abiotic stress tolerance. *Plant Signaling and Behavior*, 6(2), 175–191. <https://doi.org/10.4161/psb.6.2.14146>

Stackebrandt, E., & Goebel, B. M. 1994. *Taxonomic Note : A Place for DNA-DNA Reassociation and s rRNA Sequence Analysis in the Present Species Definition in Bacteriology*. 846–849.

Widayanti, G. A., & Widjajanti, H. 2018. *Indonesian Journal of Environmental Management and Sustainability Antibacterial Activity of The Secondary Metabolites Produced by Endophytic Fungi Isolated from Acanthus ilicifolius Plant*.

Wilfinger, W. W., Mackey, K., & Chomczynski, P. 2018. *Effect of pH and Ionic Strength on the Spectrophotometric Assessment of Nucleic Acid Purity*. <https://doi.org/10.2144/97223st01>

Wulandari, D., Amatullah, L. H., Tr, A., & Rika, A. 2024. *Antibacterial Activity and Molecular Identification of Soft Coral Sinularia sp . Symbiont Bacteria from Karimunjawa Island against Skin Pathogens Propionibacterium acnes and Staphylococcus epidermidis*.

Zhang, H., Zou, J., Yan, X., Chen, J., Cao, X., Wu, J., Liu, Y., & Wang, T. 2021. Marine-Derived Macrolides 1990–2020: An Overview of Chemical and Biological Diversity. *Marine Drugs*, 19(4). <https://doi.org/10.3390/MD19040180>

