

DAFTAR PUSTAKA

- Allen, D.R., and McWhinney, B.C., 2019, Quadrupole Time-of-Flight Mass Spectrometry: A Paradigm Shift in Toxicology Screening Applications, *Clin. Biochem. Rev.*, 40(3), 135-146.
- Ardrey, R.E., 2003, *Liquid Chromatography – Mass Spectrometry: An Introduction*, John Wiley & Sons, New Jersey.
- Banerjee, S., and Mazumdar, S., 2012, Electrospray ionization mass spectrometry: a technique to access the information beyond the molecular weight of the analyte, *Int. J. Anal. Chem.*, 2012(282574), 1-41.
- Barros, A.A., Aroso, I.M., Silva, T.H., Mano, J.F., Duarte, A.R.C., and Reis, R.L., 2015, Water and Carbon Dioxide: Green Solvents for the Extraction of Collagen/Gelatin from Marine Sponges, *ACS. Sustainable. Chem. Eng.*, 3(2) 254–260.
- Bennett, J.E., Dolin, R., and Blaser, M.J., 2015, *Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases*, 8th Ed, Elsevier Inc., Philadelphia.
- Bergmann, W., and Feeney, R., 1951, Contributions To The Study Of Marine Products. XXXII. The Nucleosides Of Sponges. *I. J. Org. Chem.*, 6(16), 981-987.
- Brinkmann, C.M., Marker, A., and Kurtböke, D. İ., 2017, An Overview on Marine Sponge-Symbiotic Bacteria as Unexhausted Sources for Natural Product Discovery, *Diversity*, 4(9), 1-31.
- Cech, N.B., and Yu, K., 2013, Strategies and pitfalls in the application of mass spectrometry to natural products research, *LCGC. North America.*, 11(31), 938–947.
- Clements, B.W., and Casani, J.A.P., 2016, *Chemical Hazards and Disasters*. In Shroder J.F., and Wyss, M., *Disasters and Public Health : Planning and Response*, 2, Butterworth-Heinemann, Oxford.
- de Voogd, N.J., 2005, *Indonesian sponges : biodiversity and mariculture potential*, Faculty of Science Institute for Biodiversity and Ecosystem Dynamics Universiteit van Amsterdam, Amsterdam.

- de Voogd, N.J., Becking, L.E., and Cleary, D.F.R., 2009, Sponge community composition in the Derawan Islands, NE Kalimantan, Indonesia, *Mar. Ecol. Prog. Ser.*, 396, 16-180.
- Diop, M., Sow, A.M., and Fofana, M., 2022, A novel tribrominated indole nucleoside from the Senegalese marine sponge *Diplastrella* sp., *IOSR-JAC*, 7(15), 10-13.
- Duchassaing de Fonbressin, P., and Michelotti, G., 1864, Spongiaires de la mer Caraibe, *Nat. Verh. Holl. Mij. Wet.*, 2(21), 1-124.
- Farrar, J., Hotez P.J., Junghanss, T., Kang, G., Lalloo, D., and White, N.J., 2014, *Manson's tropical diseases*, 24th Ed., Elsevier, Philadelphia.
- Fitri, N., Na-Bangchang, K., Tjitra, E., Hutagalung, J., Sunarno, S., Dewi, R.M., Handayani, S., and Chaijaroenkul, W., 2023, Host susceptibility genes of asymptomatic malaria from South Central Timor, Eastern Indonesia, *Parasitology Research*, 122, 61-75.
- Garderes, J., Wang, X., and Muller, W.E.G., 2016, *Molecular Evolution of Defense Pathways in Sponges: Self-Self-recognition and Fight against the Nonself*. In Ratcliffe, M.J.H., *Encyclopedia of Immunobiology*, Vol 1, 407-416.
- Gondhowiardjo, S., Christina, N., Ganapati, N.P.D., Hawariy, S., Radityamurti, F., Jayalie, V.F., Octavianus, S., Putra, A.P., Sekarutami, S.M., Prajogi, G.B., Giselvania, A., Adham, M., Hamid, A.R.A.H., Widyastuti, E., Prabowo, Y., Aninditha, T., Purwoto, G., Aman, R.A., Siregar, T.P., Siswoyo, A.D., and Agianda, F., 2021, Five-Year Cancer Epidemiology at the National Referral Hospital: Hospital-Based Cancer Registry Data in Indonesia, *JCO. global oncology.*, 7, 190–203.
- Hahn, E.D., and Soyer, R., 2008, Probit and logic model : *Differences in a multivariaterealm*.
- Harapan, H., Michie, A., Yohan, B., Shu, P.Y., Mudatsir, M., Sasmono, R.T., and Imrie, A., 2019, Dengue viruses circulating in Indonesia: A systematic review and phylogenetic analysis of data from five decades, *Rev. Med. Viro.*, 4(29), 1-17.
- Hieu, T.V., Ngan, T.B., Huong, D.T.M., Quyen, V.T., Minh, L.T.H., Murphy, B.T., and Cuong, P.V., 2019, Secondary metabolites from marine actinomycete *Streptomyces* sp. G330, *Vietnam. J. Chem.*, 4(57), 480-484.

- Ho, C.S., Lam, C.W.K., Chan, M.H.M, Cheung, R.C.K., Law, L.K., Lit, L.C.W., Ng, K.F., Suen, M.W.M., and Tai, H.L., 2003, Electrospray Ionisation Mass Spectrometry: Principles and Clinical Applications, *Clin. Biochem. Rev.*, 1(24), 3-12.
- Hodgson, E., 2004, *A Textbook of Modern Toxicology*, 4th Ed., Wiley Interscience, New Jersey.
- Hooper, J.N., and van Soest, R.W., 2002, *Systema Porifera A Guide to the Classification of Sponges*, 1st Ed., Springer, New York.
- Houssen, W.E., and Jaspars, M., 2006, *Isolation of Marine Natural Products*. In Sarker, S.D., Latif, Z., and Gray, A.I., *Natural Products Isolation. Methods in Biotechnology*, 2nd Ed., Humana Press, New Jersey.
- Houssen, W.E., and Jaspars, M., 2012, *Isolation of Marine Natural Products*. In Sarker, S.D., Latif, Z., and Gray, A.I., *Natural Products Isolation. Methods in Molecular Biology*, 3rd Ed., Humana Press, New Jersey.
- Irianti, T.T., Sugiyanto, K., dan Nuranto, S., 2017, *Toksikologi Lingkungan*, Grafika Indah, Yogyakarta.
- Kato, H., Nehira, T., Matsuo, K., Kawabata, T., Kobashigawa, Y., Morioka, H., Losung, F., Mangindaan, R.E.P., de Voogd, N.J., Yokosawa, H., and Tsukamoto, S., 2015, Niphateolide A: isolation from the marine sponge *Niphates olemda* and determination of its absolute configuration by an ECD analysis, *Tetrahedron*, 38(71), 6956-6960.
- Kazakevich, Y.V., and Lobrutto, R., 2007, *HPLC for Pharmaceutical Scientists*, 1st Ed., John Wiley & Sons, New Jersey.
- Kiuru, P., D'Auria, M.V., Muller, C.D., Tammela, P., Vuorela, H., and Yli-Kauhaluoma, J., 2014, Exploring marine resources for bioactive compounds, *Planta. Med.*, 14(80), 1234-1246.
- Kobayashi, J., Zeng, C.M., Ishibasi, M., Shigemori, H., Sasaki, T., and, Mikami, Y., 1992, Niphatesines E–H, new pyridine alkaloids from the Okinawan marine sponge *Niphates* sp., *J. Chem. Soc., Perkin Trans. 1.*, 24(1999), 3537-3733.

- Kong, C., Wu, Y., Zhao, H.M., Zhang, S.S., Wu, Z.M., Li, X.B., Liu, K.C., Lin, H.W., Wang, S.P., 2023, Phakellisins A–E, cyclopeptides from a marine sponge *Phakellia* sp. guided by LC-MS, *BIOORG. CHEM.*, 139, 1-11.
- Kornprobst, J.M., 2014, *Porifera (Sponges). Encyclopedia of Marine Natural Products*, Vol 2, Edisi 2, Wiley-VCH, Weinheim.
- Kubota, T., Nakamura, K., Kurimoto, S.I., Sakai, K., Fromont, J., Gonoï, T., and Kobayashi, J., 2017, Zamamidine D, a Manzamine Alkaloid from an Okinawan *Amphimedon* sp. Marine Sponge, *J. Nat. Prod.*, 4(80), 1196-1199.
- Kura, K., Kubota, T., Fromont, J., and Kobayashi, J., 2011, Pyrinodemins E and F, new 3-alkylpyridine alkaloids from sponge *Amphimedon* sp., *Bioorg. Med. Chem. Lett.*, 1(21), 267-270.
- Laxminarayan, R., Van Boeckel, T., Frost, I., Kariuki, S., Khan, E.A., Limmathurotsakul, D., Larsson, D.G.J., Levy-Hara, G., Mendelson, M., Outtersson, K., Peacock, S.J., and Zhu, Y.G., 2020, The Lancet Infectious Diseases Commission on antimicrobial resistance: 6 years later, *Lancet. Infect. Dis.*, 4(20), 51-60.
- Legrave, N., Hamrouni-Buonomo, S., Dufies, M., Guérineau, V., Vacelet, J., Auberger, P., Amade, P., and Mehiri, M., 2013, Nepheliosyne B, a New Polyacetylenic Acid from the New Caledonian Marine Sponge *Niphates* sp., *Mar. Drugs.*, 7(11), 2282-2292.
- Lindequist, U., 2016, Marine-Derived Pharmaceuticals – Challenges and Opportunities, *Biomol. Ther(Seoul)*, 6(24), 561-571.
- Liu, R., 2008, *Checklist of Marine Biota of China Seas*, Science Press : Academia Sinica, Beijing.
- Lynch, K.L., 2017, *Toxicology: liquid chromatography mass spectrometry*. In Nair, H., and Clarke, W., *Mass Spectrometry for the Clinical Laboratory*, 1st Ed., Elsevier, Amsterdam.
- Maes, B.U.W., and Lemièrre, G.L.F., 2008, 8.01 - *Pyridazines and their Benzo Derivatives*. In Katritzky, A.R., Ramsden, C.A., Scriven, E.F.V., and Taylor, R.J.K., *Comprehensive Heterocyclic Chemistry III*, 3rd Ed., Elsevier, Amsterdam.

- Meimetis, L.G., Williams, D.E., Mawji, N.R., Banuelos, C.A., Lal, A.A., Park, J.J., Tien, A.H., Fernandez, J.G., de Voogd, N.J., Sadar, M.D., and Andersen, R.J., 2012, Niphatenones, glycerol ethers from the sponge *Niphates digitalis* block androgen receptor transcriptional activity in prostate cancer cells: structure elucidation, synthesis, and biological activity, *J. Med. Chem.*, 1(55), 503-514.
- Meyer, B.N., Ferigni, N.R., Putnam, J.E., Ja Cobsen, L.B., Nichols, D.E., and McLaughlin, J.L., 1982, Brine Shrimp: A Convenient General Bioassay for Active Plant Constituent, *Planta Medica.*, 45, 31-45.
- Miotto, P., Sorrentino, R., De Giorgi, S., Provvedi, R., Cirillo, D.M., and Manganelli, R., 2022, Transcriptional regulation and drug resistance in *Mycobacterium tuberculosis*, *Front. Cell. Infect. Microbiol.*, 990312(12), 1-12.
- Montaser, R., and Luesch, H., 2011, Marine natural products: a new wave of drugs?, *Future Med. Chem.*, 12(3), 1475-1489.
- Nogueira, R.C., Oliveira-Costa, J.F., de Sa, M.S., dos Santos, R.R., and Soares, M.B.P., 2009, Early Toxicity Screening and Selection of Lead Compounds for Parasitic Diseases, *Curr. Drug. Targets.*, 3(10), 291-298.
- Padua, L.S., Bunyaprahatsara, N., and Lemmens, R.H.M.J., 1999, *Plant Resources of South – East Asia No. 12(1): Medicinal and Poisonous Plants 1*, 12th Ed., Backhuys Publishers, Leiden.
- Paul, S.I., Rahman, M.M., Salam, M.A., Khan, M.A.R., and Islam, M.T., 2021, Identification of marine sponge-associated bacteria of the Saint Martin's island of the Bay of Bengal emphasizing on the prevention of motile *Aeromonas septicemia* in Labeo rohita, *Aquaculture*, 545(2021), 1-13.
- Prokch, P., Edrada, R.A., and Ebel, R., 2002, Drugs from the seas-current status and microbiological implications, *Appl. Microbiol. Biotechnol.*, 59(2002), 125-134.
- Quiñoà, E., and Crews, P., 1987, The cytotoxic extract of *Psammaphysilla* sp. collected from Tonga contains monobromo tyrosine derivatives, 3-bromo-4-hydroxyphenylacetonitrile (1) which is known and psammaphin A (2) which is the first disulfide to be isolated from a sponge, *Tetrahedron. Lett.*, 28(28), 3229-3232.
- Rahmasari, F.V., Asih, P.B.S., Dewayanti, F.K., Rotejanaprasert, C., Charunwatthana, P., Imwong, M., and Syarifuddin, D., 2022, Drug resistance of *Plasmodium*

- falciparum* and *Plasmodium vivax* isolates in Indonesia, *Malar. J.*, 354(2022), 1-32.
- Regalado, E.L., Mendiola, J., and Thomas, O.P., 2010, Polar Alkaloids from the Caribbean Marine Sponge *Niphates Digitalis*, *Nat. Prod. Commun.*, 8(5), 1187-1190.
- Riedel, S., Morse, S.A., Mietzner, T., and Miller, S., 2019, *Jawetz, Melnick & Adelberg's medical microbiology*, 28th Ed., McGraw-Hill, New York.
- Sadahiro, Y., Hitora, Y., Fukumoto, A., Ise, Y., Angkouw, E.D., Mangindaan, R.E.P., and Tsukamoto, S., 2020, Melophluosides A and B, new triterpene galactosides from the marine sponge *Melophlus sarasinorum*, *Tetrahedron. Lett.*, 20(61), 1-4.
- Sapar, A., Noor, A., Soekanto, N.N., Ahmad, A., and Hadi, T.A., 2015, Toxicity Assessment on Nine Sponge Species from Spermonde Archipelago, *Marina. Chim. Acta.*, 2(16), 24-27.
- Sayed, A.M., 2018, Natural Products from the Red Sea Sponges and Marine derived Microbes, *Thesis*, Faculty of Pharmacy Nahda University, Beni Suef.
- Seenaa, P., and Narayanasamy, K., 2022, Determination of LC_{50} of Ethoxyquin On *Oreochromis Mossambicus* (Peters) Fish Experimental Model, *Nehru.e-j.*, 138-146.
- Selvin, J., Ninawe, A.S., Kiran, G.S., and Lipton, A.P., 2010, Sponge-microbial interactions: Ecological implications and bioprospecting avenues, *Crit. Rev. Microbiol.*, 1(36), 82-90.
- Selvin, J., Sathiyarayanan, G., Lipton, A.N., Al-Dhabi, N.A., Arasu, M.V., and Kiran, G.S., 2016, Ketide Synthase (KS) Domain Prediction and Analysis of Iterative Type II PKS Gene in Marine Sponge-Associated Actinobacteria Producing Biosurfactants and Antimicrobial Agents, *Front. Microbiol.*, 63(7), 1-12.
- Selvin, J., and Lipton, A.P., 2004, Biopotentials of *Ulva Fasciata* and *Hypnea Musciformis* Collected from the Peninsular Coast of India, *J. Mar. Sci. Technol.*, 1(12), 1-6.
- Shady, N.H., Fouad, M.A., Kamel, M.S., Schirmeister, T., and Abdelmohsen, U.R., 2019, Natural Product Repertoire of the Genus *Amphimedon*, *Mar. Drugs.*, 1(17), 1-19.

- Silverstein, R.M., Francis, X.W., David, J.K., and David, L.B., 1986, *Spectrometric Identification of Organic Compounds*, 1st Ed., John Wiley and Sons, New York.
- Simorangkir, M., Nainggolan, B., Juwitaningsih, T., and Silaban, S., 2021, The Toxicity of *n*-Hexane, Ethyl Acetate and Ethanol Extracts of SarangBanua (*Clerodendrum fragrans* Vent Willd) Leaves by Brine Shrimp Lethality Test (BSLT) Method, *J. Phys.: Conf. Ser.*, 1811(2021), 1-5.
- Spalding, M., Ravilious, C., and Green, E., 2001, *World atlas of coral reefs*, 1st Ed., University of California Press, California.
- Sugawara, K., Kanki, D., Watanabe, R., Matsushima, R., Ise, Y., Yokose, H., Morii, Y., Yamawaki, N., Ninomiya, A., Okada, S., and Matsunaga, S., 2022, Aciculitin D, a cytotoxic heterodetic cyclic peptide from a *Poecillastra* sp. marine sponge, *Tetrahedron*, 119, 1-8.
- Taylor, M.W., Schupp, P.J., Dahllö, I., Kjelleberg, S., and Steinberg, P.D., 2004, Host specificity in marine sponge-associated bacteria, and potential implications for marine microbial diversity, *Environ. Microbiol.*, 2(6), 121-130.
- Taylor, M.W., Radax, R., Steger, D., and Wagner, M., 2007, Sponge-associated microorganisms: evolution, ecology, and biotechnological potential, *Microbiol. Mol. Bio. Rev.*, 2(71), 295-347.
- Tong, H., Bell, D., Tabei, K., and Siegel, M.M., 1999, Automated data massaging, interpretation,, and e-mailing modules for high throughput open access mass spectrometry, *J. Am. Soc. Mass Spectrom.*, 11(10), 1174-1187.
- Tsuda, M., Kawasaki, N., and Kobayashi, J., 1994, Ircinols A and B, first antipodes of manzamine-related alkaloids from an Okinawan marine sponge, *Tetrahedron*, 27(50), 7957-7960.
- van Soest, R.W., Boury-Esnault, N., Vacelet, J., Dohrmann, M., Erpenbeck, D., De Voogd, N.J., Santodomingo, N., Vanhoorne, B., Kelly, M., and Hooper, J.N., 2012, *Global diversity of sponges (Porifera)*, *PloS one*, 7(4), 1-21.
- Wang, J., Liu, L.Y., Liu, L., Zhan, K.X., Jiao, W.H., and Lin, H.W., 2018, Pellynols M–O, cytotoxic polyacetylenic alcohols from a *Niphates* sp. marine sponge, *Tetrahedron*, 27(74), 3701-3706.

Ward, R.A., Fawell, S., Floc'h, N., Flemington, V., McKerrecher, D., and Smith, P.D., 2021, Challenges and Opportunities in Cancer Drug Resistance, *Chem. Rev.*, 6(121), 3297-3351.

Webster, N.S., and Taylor, M., 2012, Marine sponges and their microbial symbionts: love and other relationships, *Environ. Microbiol.*, 2(14), 335-346.

Xu, N.J., Sun, X., and Yan, X.J., 2007, A new cyclostelletamine from sponge *Amphimedon compressa*, *Chin. Chem. Lett.*, 18(2007), 947-950.