

## DAFTAR PUSTAKA

- Alejandro, M., Mayer, L., Virginia, S., and Lehmann, K., 2000, Marine Pharmacology in 1998: Marine Compound with Antibacterial, Anticoagulant, Antifungal, Antiinflammatory, Anthelminthic, and Antiviral activities with actin on cardiovascular, endocrine, immune, and nervous systems and other Miscellaneous mechanism of action, *J. Pharmacol.*, 42, 62-69.
- Amir, I., dan Budiyanto, A., 1996, Mengenal Spons Laut (Demospongiae) secara Umum, *Oseana*, 21, 15-31.
- Amir, I., 1992, Sponge fauna of coral reef ecosystem in the Seribu Islands and Ujung Kulon, *In Third ASEAN Science and Technology Week Conference Proceedings*, Marine Science Living Coastal Resources.
- Aneiros, A., and Garateix, A., 2004, Review Bioactive peptides from marine sources: pharmacological properties and isolation procedures, *J. Chromatogr B.*, 803, 41-53
- Anjaneyulu, A., Murthy, Yellajosyula, L., Rao, Vadali, L., and Sreedhar, K., 2003, A new aromatic ester from the mangrove plant *Lumnitzera racemosa* wild, *J. Arkivoc.*, 25-30
- Ardrey, R., 2003, *Liquid Chromatography-Mass Spectrometry: An Introduction*, John Wiley and Sons, Ltd.
- Arianto, I., 2012, Sitotoksitas Ekstrak Etanolik, Metanolik, dan Kloroform Spons *Geodia* sp. terhadap Sel HeLa (*Cervical Cancer Cell Line*). *Skripsi*. Fakultas Biologi, Universitas Gadjah Mada.
- Baelsmans, R., Deharo, E., Munoz, V., Sauvain, M., and Ginsburg, H., 2000, Experimental conditions for testing the inhibitory activity of chloroquine on the formation of  $\beta$ -hematin, *J. Exp. Parasitol.*, 42, 55-60.
- Basilico, N., Pagani, E., Monti, D., Olliaro, P., and Taramelli, D., 1998, A microtitre based method for measuring the haem polymerization inhibitory activity (HPIA) of antimalaria drugs, *J. Antimicrob. Agents. Ch.*, 42, 55-60.
- Bergquist, P., 1978, *Sponges*, University of California Press, California.
- Bergquist, P., 1969, Sponge Industry. *Encyclopedia of Marine Resources*, 665-670.
- Bugni, T., Singh, M., Chen, L., Arias, D., Harper, M., Greenstein, M., Maiese, W., Concepcion, G., Mangalindan, G., and Ireland, C., Kalihinol from

two *Acanthella cavernosa* sponges: inhibitor of bacterial folate biosynthesis, *Tetrahedron*, 60, 6981-6988.

- Campbell, N. and Reece, J., 2002, *Biology 6<sup>th</sup> ed*, Toronto: Pearson Education.
- Davis, R., Duffy, S., Avery V., Camp, D., Hooper, J., and Quinn, R., 2009, (+)-7-Bromotrypargine: an antimalarial  $\beta$ -carboline from the Australian marine sponge *Ancorina* sp., *Tetrahedron*, 51, 583-585.
- de Voogd, N., 2005, The mariculture potential of the Indonesian reef-dwelling sponge *Callyspongia* (*Euplacella*) biru : Growth, survival and bioactive compounds, *J. Aquaculture.*, 262, 54-64
- Edrada, R., Wray, V., Berg, A., Grafe, U., Sudarsono, B., and Proksh, P., 2000, Novel Spiciferone Derivatives from the Fungus *Drechslera hawaiiensis* Isolated from Marine Sponge *Callyspongia aerizusa*, *J. Z. Naturforsch.*, 55c, 218-221.
- Erdogen, I., Tanaka, J., Higa, T., and Sener, B., 1999, Two New Hydroquinone Derivatives from Two Sponge Species of the Aegean Sea, *Jour. Chem. Soc. Pak.*, 22, 200-204.
- Faizah, N., 2015, Uji Sitotoksitas Ekstrak Etanolik Sponge *Ancorina* sp. pada Sel Kanker Payudara (t47d cell line), *Seminar*, Fakultas Biologi UGM, Yogyakarta.
- Faulkner, D., Unson, M., and Bewley, C., 1994, The chemistry of some sponges and their symbionts, *J. Pure and Appl Chem.*, 66, 83-1990.
- Finney, D., 1971, *Probit analysis*, 2nd edition. Cambridge University Press.
- Fujita, M., Nakao, S., Matsunaga, M., Seiki, Y., Itoh, R., Soest, V. and Fusetani, N., 2001, Ancorinosides B±D, inhibitors of membrane type 1 matrix metalloproteinase (MT1-MMP), from the marine sponge *Penares sollasi* Thiele, *Tetrahedron*, 57, 1229-1234.
- Guyot, M., 2002, Intricate aspects of sponge chemistry, *Publications Scientifique du Muséum National d'histoire Naturelle*, Paris.
- Haefner, B. 2003. Drug from the deep: marine natural products drug candidates. *Drug Disc. Today.*, 6 (12), 536 - 544.
- Hartono, G. dan Bronto, S., 2007, Asal-usul pembentukan Gunung Batur di daerah Wediombo, Gunungkidul, Yogyakarta, *J. Geologi Indonesia*, 2, 143-158.
- Hegnauer, R., 1986, Phytochemistry and plant taxonomy- an assay on the chemotaxonomy of higher plant, *J. Phytochemistry*, 25, 1519-1535.

- Hooper, J., 2003, Guide to Sponge Collection and Identification, *Sponge Guide*, Queensland Museum, London.
- Hooper, J. and Soest, R., 2002, *Systema Porivera: A Guide to Clasification of Sponges*, Vol.1, Kluwer Academic/Plenum Publisher, New York.
- Hu, L., Yen, W., Su, J., Michael Y., Wen, Z., Chen, W., Lu, T., Chang, Y., Chen, Y., Wang, W., Wu, Y., and Sung, P., 2013, Cembrane Derivatives from the Soft Corals, *Sinularia gaweli* and *Sinularia flexibilis*, *J. Mar. Drugs.*, 11, 2154-2167
- Jain, R., and Tiwari, A., 2007, Sponge: An Invertebrata of bioactive potential, *J. Curr. Sci.*, 93, 444-445
- Jasin, M., 1992, *Zoologi Invertebrata untuk Perguruan Tinggi*, Cetakan Keempat, Sinar Wijaya, Surabaya.
- Joseph, B., and Sujatha, S., 2011, Pharmacologically Important Natural products from Marine Sponges, *J. Nat. Prod.*, Vol. 4, 05-12.
- Kazakevich, Y., dan Lobrutto, R., 2007, *HPLC for Pharmaceutical Scientists*, John Wiley & Sons.
- Keller, B., Sui, J., Young, A., and Whittal, R., 2008 Interferences and Contaminants Encountered in Modern Mass, *J. Anal. Chim. Acta.*, 627, 71-81.
- Lv, F., Xu, M., Deng, Z., de Voogd, N., Soest, R., Proksch, P., and Lin, W., 2008, Rhabdastrellins A-F, Isomalabaricane Triterpenes from the Marine Sponge *Rhabdastrella*, *J. Nat. Prod.*, 71, 1738-1741
- Kerr, V., and Grace, R., 2005, *Intertidal and subtidal habitats of Mimiwhangata Marine Park and adjacent shelf Doc Research & Development Series 201*, Department of Conservation, Wellington, New Zealand.
- Khopkar, S.M., 2010, *Konsep Dasar Kimia Analitik*, UI-Press, Jakarta.
- Kobayashi, M., dan Rachmaniar, R., 1999. Overview of Marine Natural Product Chemistry. *Prosidings Seminar Bioteknologi Kelautan Indonesia*, LIPI, Jakarta.
- Hou-Jin, L., Wen-Han J., Wan-Ling L., Jia-Xin H., Yu-Fei M., Yan-Qing D., Chi-Keung L., Xiao-Jun Q., Xiao-Feng Z., and Wen-Jian L., 2014, Induced Marine Fungus *Chondrostereum* sp. as a Means of Producing New Sesquiterpenoids Chondrosterins I and J by Using Glycerol as the Carbon Source, *J. Mar. Drugs.*, 12, 167-175.

- McPhail, K., Rivett, D., Lack, D., and Coleman, M., 2000, The Structure and Synthesis of Tsitsikammafuran: A New Furanosesquiterpene from a South African *Dysidea* Sponge, *Tetrahedron* 56, 9391-9396
- Meragelman, K., West, L., Northcote, P., Pannell, L., McKee, T., and Boyd, M., 2002, Unusual Sulfamate Indoles and a Novel Indolo[3,2-a]carbazole from *Ancorina* sp., *J. Org. Chem*, Vol 67 (19), 6671–6677.
- Meyer, B., Ferrigni, N., Putnam, J., Jacobsen, L., Nichols, D, and McLaughlin, J., 1982, Brine Shrimp: A Convenient General Bioassay for Active Plant Constituents, *J. Med Plant.*, 45, 31-34.
- Motomasa, K., 1998, Search for Biologically Active Substances from Marine Sponges., *Prosiding Seminar Bioteknologi I*, Puslit Oseanologi LIPI, Jakarta.
- Munro, M., Luibrand, R., and Blunt, J., 1989, The Search for Antiviral and Anticancer Compounds from Marine Organisms, *Bioorganic Marine Chemistry* . Vol 1. *J. Springer Verlag.*, 94-176
- Nirwantono, R., 2015, Aktivitas Antiretrovirus Ekstrak Etanolik Sponge *Ancorina* sp. terhadap HIV-1. *Skripsi*, Fakultas Biologi UGM, Yogyakarta.
- Ohta, S., Ohta, E. and Ikegami, S., 1997, Ancorinoside A: a novel tetramic acidglycoside from the marine sponge, *Ancorina* sp. which specifically inhibits blastulation of starfish embryos, *J. Biol. Sci.*, 62, 6452-6453.
- Pisciotta, J., and Sullivan, D., 2008, Hemozoin: oil versus water, *J. Int. Parasitol.*, 57, 89-96.
- Proksh, P. 1998. Pharmacologically Active Natural Product from Marine Invertebrates and Associated Microorganism. *Prosiding Seminar Bioteknologi I*, Ed. Rachmaniar dkk., Puslit Oseanologi LIPI, Jakarta.
- Putra, M. and Jaswir, I., 2014, The Alkaloids from Marine Sponges. *Oceanography* 2: 123.
- Ravichandran, S., Kathiresan, K., and Balaram, H. (2007). Anti-malarial From Marine Sponges. *Biotechnol. Mol. Biol.*, 2, 033-038.
- Said, S., Moshi M., Nondo, R., Masimba, P., Innocent, J., and Guantai, A., 2010, Evaluation of the potential of the marine sponges of the Zanzibar Island to yield antimalarial and antimicrobial active compounds, *Tanz. J. Hlth. Res.*, 12, 3.
- Sakai, R., Higa, T., Jefford, C., and Bernardinelli, G., 1986. Manzamine A, a novel antitumor alkaloid from a sponge, *J. Am. Chem. Soc.*, 6404-6405
- Sastrohamidjojo, H., 2001, *Kromatografi*, Edisi Kedua, Liberty, Yogyakarta.

- Schmidt, 1862, Taxon page for *Ancorina* sp. In : Porifera LifeDesk.
- Sjögren, M., 2006, Bioactive Compounds from the Marine Sponge *Geodia barrette* Characterization, Antifouling Activity and Molecular Targets, Acta Universitatis Upsaliensis Uppsala, *Digital Comprehensive Summaries of Uppsala Dissertations*.
- Simamora, D., dan Fitri, L., 2007, Resistensi Obat Malaria: Mekanisme dan Peran Obat Antimalaria untuk Mencegah, *Jurnal Kedokteran Brawijaya*, XXIII, No 2.
- Singh, P., Gupta, D., and Bajpai, K., 1980, *Exp. Org. Chem.*, Volume I, Tata McGraw Hill Publishing Company Limited, New Delhi.
- Smart, L., 2002, *The Molecular World: Separation, Purification and Identification*, Cambridge: The Open University.
- Soest, R. and Braekman J., 1999, *Chemosystematics of Porifera*, A Review, Memoir of the Queensland Museum, 44, 569 - 589.
- Su, K., Hwang, T., Sheu, J., Wen, Z., Wu, Y., and Sung, P., 2011, Menelloides C and D, New Sesquiterpenoids from the Gorgonian Coral *Menella* sp., *Mar. Drugs.*, 9, 1534-1542.
- Tran, T., Pham, N., and Ronald, 2014, Structure Determination of Pentacyclic Pyridoacridine Alkaloids from the Australian Marine Organisms *Ancorina geodides* and *Cnemidocarpa stolonifera*, *J. Eur Org. Chem.*, 22, 4805–4816
- Soest, V., 1989, The Indonesian Sponge Fauna: A Status Report, *Netherlands of Sea Research*, 23, 2, 223-230.
- Vogeser, M. and Seger, C., 2008, A Decade of HPLCMS/MS in the Routine Clinical Laboratory-Goal for Further Developments, *J. Clin. Biochem.*, 41, 9, 649-662.
- Wang, C., Wang, B., Wiryowidagdo, S., Wray, V., Soest, R., Steube, K.G., Guan, H., Proksch, P., and Ebel, R., 2003, Melophlins C–O, Thirteen Novel Tetramic Acids from the Marine Sponge *Melophlus sarassinorum*, *J. Nat. Prod.*, Vol 66 (1), 51-56
- Wang, W., Mun, B., Lee, Y., Reddy, M., Park, Y., Lee, J., Kim, H., Hahn, D., Chin, J., Ekins, M., Nam, S., and Kang, H., 2013, Bioactive Sesterterpenoids from a Korean Sponge *Monanchora* sp., *J. Nat. Prod.*, Vol 40, 32-36
- Wei, M., Wang, C., Liu, Q., Shao, C., She, Z., and Lin, Y., 2010, Five Sesquiterpenoids from a Marine-Derived Fungus *Aspergillus* sp. Isolated from a Gorgonian *Dichotella gemmacea*, *J. Mar. Drugs*, 8, 941-949.

- Wilkinson, C., 1980, Cyanobacteria Symbiotic in Marine sponges, in: Endocytobiology: Endosymbiosis and Cell Biology: A Synthesis of Recent Research, *Proceedings of the International Colloquium on Endosymbiosis and Cell Research*, 1, 553-563.
- Wright, 1998, *Isolation of marine natural product*, Cannel, R.J.P. (eds.), Humana Press, New Jersey.
- Xavier, J. and Soest, R., 2007, Demosponge Fauna Of Ormonde And Gettysburg Seamounts (Gorringe Bank, Northeast Atlantic): Diversity And Zoogeographical Affinities, *J. Mar. Biol. Ass.*, 87, 1643–1653.
- Yang, X., Shaoa, Z., and Zhang, X., 2010, Sesterterpenes from the Sponge *Dysidea* sp., *J. Naturforsch.*, 65b, 625–627
- Yen, W., Su, Y., Chang, Y., Chen, Y., Chen, Y., Dai, C., Wenc, Z., Su, J., and Sung, P., 2013, Sinulanorcembranolide A, a novel norcembranoidal diterpene from the octocoral *Sinularia gaweli*, *Tetrahedron*, 54, 2267–2270.