

## DAFTAR PUSTAKA

- Ammerman, N. C., Beier-Sexton, M., & Azad, A. F. (2008). Growth and Maintenance of Vero Cell Lines. *Curr. Protoc. Microbiol.*, 11(4), 1-10.
- Aoki, S., Cao, L., Matsui, K., Rachmat, R., Akiyama, S., & Kobayashi, M. (2004). Kendarimide A, a novel peptide reversing P-glycoprotein-mediated multidrug resistance in tumor cells, from a marine sponge of *Haliclona* sp . *Tetrahedron*, 60(33), 7053-7059.
- Aoki, S., Matsui, K., Tanaka, K., Satari, R., & Kobayashi, M. (2000). Lembehyne A, a Novel Neuritogenic Polyacetylene, from a Marine Sponge of *Haliclona* sp . *Tetrahedron*, 56(51), 9945-9948.
- Balouiri, M., Sadiki, M., & Ibnsouda, S. K. (2016). Methods for in vitro evaluating antimicrobial activity : A review. *JPA*, 6(2), 71-79.
- Bhargav, S., Panda, B. P., Ali, M., & Javed, S. (2008). Solid-state Fermentation : An Overview. *Chem. Biochem. Eng*, 22(1), 49-70.
- Bhatnagar, I., & Kim, S. (2012). Pharmacologically prospective antibiotic agents and their sources : A marine microbial perspective. *J. ETAP*, 34(3), 631-643.
- Blackburn, C. L., & Faulkner, D. J. (2000). Adociasulfate 10, A New Merohexaprenoid Sulfate from the Sponge *Haliclona* (aka *Adocia*) sp . *Tetrahedron*, 56, 8429-8432.
- Bokesch, H. R., Stull, A. C., Pannell, L. K., McKee, T. C., & Boyd, M. R. (2002). A new pentacyclic sulfated hydroquinone from the marine sponge *Haliclona* sp. *Tetrahedron Lett*, 43, 3079-3081.
- Bringmann, G., Lang, G., Steffens, S., Gunther, E., & Schaumann, K. (2003). Evariquinone, isoemericellin, and stromemycin from a sponge derived strain of the fungus *Emericella variecolor*. *Phytochemistry*, 63, 437-443.
- Casapullo, A., Pinto, O. C., Marzocco, S., Autore, G., & Riccio, R. (2009). 3-Alkylpyridinium Alkaloids from the Pacific Sponge *Haliclona* sp. *J. Nat. Prod.*, 72, 301-303.
- Chen, T. R., Drabkowski, D., Hay, R. J., & Macy, M. (1987). WiDr is a Derivative of Another Colon Adenocarcinoma Cell Line , HT-29. *Cancer. Genet. Cytogenet*, 27, 125-134.
- Chopra, I. (2002). New developments in tetracycline antibiotics : glycyclines and tetracycline efflux pump inhibitors. *Drug Resist. Updates*, 5, 119-125.
- Chopra, I., & Marilyn Roberts. (2001). Tetracycline Antibiotics : Mode of Action, Applications, Molecular Biology, and Epidemiology of Bacterial Resistance. *Microbiol. Mol. Biol. Rev.*, 65(2), 232-260.
- Crews, P., & Harrison, B. (2000). New Triterpene-Ketides (Merotriterpenes),

- Haliclotriol A and B, from an Indo-Pacific *Haliclona* Sponge. *Tetrahedron*, 56, 9039-9046.
- Damodaran, V., Ryan, J. L., & Keyzers, R. A. (2013). Cyclic-3-Alkyl Pyridinium Alkaloid Monomers from a New Zealand *Haliclona* sp. Marine Sponge. *J. Nat. Prod.*
- Dean, F. M., Roberts, J. C., & Robertson, A. (1954). The Chemistry of Pungi. Part XXII. Nidulin and Nornidulin ("Ustin") : Chlorine-containing Metabolic Products of *Aspergillus nidulans*. *J. Chem. Soc.*, (1432), 1432-1439.
- Dembitsky, V. M., & Tolstikov, G. A. (2003). Halogenated Phenol Compounds in Lichens and Fungi. *Chem. for Sust. Dev.*, 11, 557-565.
- Edwards, S. G., Callaghan, J. O., & Dobson, A. D. W. (2002). PCR-based detection and quantification of mycotoxigenic fungi. *Mycol. Res.*, 106(9), 1005-1025.
- Ekowati, H., Achmad, A., Prasasti, E., Wasito, H., Sri, K., Hidayati, Z., & Ekasari, T. (2012). *Zingiber officinale*, *Piper retrofractum* and Combination Induced Apoptosis and p53 Expression in Myeloma and WiDr Cell Lines. *HAYATI J. Biosci.*, 19(3), 137-140.
- Eltem, R., Askun, T., Sarigul, N., Taskin, E. O., & Efendiler, H. (2004). Colonial and Morphological Characteristics of Some *Aspergillus* Fr. Fr. Species Isolated from Vineyards in Manisa and Izmir Provinces (Turkey). *Turk. J. Bot.*, 28, 287-298.
- Fahy, E., Molinski, T. F., Harper, M. K., Sullivan, B. W., & Faulkner, D. J. (1988). Haliclonadiamine, An Antimicrobial Alkaloid from The Sponge *Haliclona* sp. *Tetrahedron Lett.*, 29(28), 3427-3428.
- Fisher, K., & Phillips, C. (2009). The ecology, epidemiology and virulence of *Enterococcus*. *Microbiology*, 155, 1749-1757.
- Gidwani, B., & Vyas, A. (2015). A Comprehensive Review on Cyclodextrin-Based Carriers for Delivery of Chemotherapeutic Cytotoxic Anticancer Drugs. *BioMed. Res. Int.*, 1-15.
- Grosso, C., Valentao, P., Ferreres, F., & Andrade, P. B. (2015). Alternative and Efficient Extraction Methods for Marine Derived Compounds-Review. *Mar. Drugs*, 13, 3182-3230.
- Hamano, K., Kinoshita-Okami, M., Hemmi, A., Sato, A., Hisamoto, M., Matsuda, K., Kazuhiko Tanzawa. (1992). Folipasatin, A New Depsidone Compound from *Aspergillus unguis* as an inhibitor of Phospholipase A2. *J. Antibiotics*, 45(8), 1195-1201.
- Handayani, D., Ahdinur, R. F., & Rustini, R. (2015). Antimicrobial activity of endophytic fungi from marine Sponge *Haliclona fascigera*. *J. App. Pharm. Sci.*, 5(10), 154-156.
- Handoyo, D., & Rudiretna, A. (2001). Prinsip Umum dan Pelaksanaan Polymerase Chain Reaction (PCR) [General Principles and Implementation of Polymerase]. *Unitas*, 9(1), 17-29.

- Indraningrat, A. A. G., Smidt, H., & Sipkema, D. (2016). Bioprospecting Sponge Associated Microbes for Antimicrobial Compounds-Review. *Mar. Drugs*, 14(87), 1-66.
- Jaspars, M., Horton, P. A., Madrid, L. H., & Crews, P. (1995). The Cyclorenierins, Sesquiterpenoid Quinols from The Sponge *Haliclona* sp. Collected in Vanuatu. *J. Nat. Prod.*, 58(4), 609-612.
- Kawahara, N., Nakajima, S., Satoh, Y., Yamazaki, M., & Ken-Ichi Kawai. (1988). Studies on Fungal Products. XVIII. Isolation and Structure of a New Fungal Depsidone Relted to Nidulin and a New Phthalide from *Emericella unguis*. *Chem. Pharm. Bull.*, 36(6), 1970-1975.
- Kawahara, N., Nozawa, K., Nakajima, S., Kawai, K., & Yamazaki, M. (1988). Isolation and Structures of Novel Fungal Depsidones Emeguisins A,B, and C, from *Emericella unguis*. *J. Chem. Soc. Perkin. Trans*, (1), 2611-2614.
- Kim, S., & Wijesekara, I. (2010). Development and biological activities of marine-derived bioactive peptides : A review. *J. Functional Foods*, 2(1), 1-9.
- Kiuru, P., Muller, C. D., Vuorela, H., & Youkauhaluoma, J. (2014). Exploring Marine Resources for Bioactive Compounds-Review. *Planta Med*, 80, 1234-1246.
- Kjer, J., Debbab, A., Aly, A. H., & Proksch, P. (2010). Methods for isolation of marine derived endophytic fungi and their bioactive secondary products. *Nat. Prot.*, 5(3), 479-490.
- Klaiklay, S., Rukachaisirikul, V., Aungphao, W., Phongpaichit, S., & Sakayaroj, J. (2016). Depsidone and phthalide derivatives from the soil derived fungus *Aspergillus unguis* PSU-RSPG199. *Tetrahedron Lett.*, 10-13.
- Koneru, B., Shi, Y., Wang, Y., Chavala, S. H., Miller, M. L., Holbert, B., ... Pasqua, A. J. Di. (2015). Tetracycline-Containing MCM-41 Mesoporous Silica Nanoparticles for the Treatment of *Escherichia coli*. *Molecules*, 20, 19690-19698.
- Li, K., Chung-Davidson, Y.-W., Bussy, U., & Li, W. (2015). Recent Advances and Applications of Experimental Technologies in Marine Natural Product Research. *Mar. Drugs*, 13, 2694–2713.
- Malmstrøm, J., Ryager, A., Anthoni, U., & Nielsen, P. H. (2002). Unguisin C, a GABA-containing cyclic peptide from the fungus *Emericella unguis*. *Phytochemistry*, 60, 869–872.
- Mariottini, G. L., & Grice, I. D. (2016). Antimicrobials from Cnidarians. A New Perspective for Anti-Infective Therapy ?. *Mar. Drugs*, 14 (48), 1–19.
- McDonnell, G., & Russell, A. D. (1999). Antiseptics and Disinfectants : Activity, Action, and Resistance. *Clin. Microbiol. Rev*, 12(1), 147–179.
- Motohashi, K., Takagi, M., & Shin-ya, K. (2010). Tetracenoquinocin and 5-Iminoaranciamycin from a Sponge-Derived Streptomyces sp 080513GE-26.

- J. Nat. Prod.*, 73(4), 755–758.
- Narang, A. S., & Desai, D. S. (2009). Anticancer Drug Development- Unique Aspects of Pharmaceutical Development. In Y. Lu & R. I. Mahato (Eds.), *Pharmaceutical Perspectives of Cancer Therapeutics* (XVI, pp. 49-92). Springer International Publishing.
- Nielsen, J., Nielsen, P. H., & Frisvad, J. C. (1999). Fungal depside, guisinol, from a marine derived strain of *Emericella unguis*. *Phytochemistry*, 50, 263-265.
- Pruksakorn, P., Arai, M., Kotoku, N., Vilchèze, C., Baughn, A. D., Moodley, P., ... Kobayashi, M. (2010). Trichoderins, novel aminolipopeptides from a marine sponge-derived *Trichoderma* sp., are active against dormant mycobacteria. *Bioorg. Med. Chem. Lett.*, 20(12), 3658-3663.
- Randazzo, A., Debitus, C., & Gomez-Paloma, L. (2001). Haliclamide, a novel cyclic metabolite from the Vanuatu marine sponge *Haliclona* sp . *Tetrahedron*, 57, 4443-4446.
- Rashid, M. A., Gustafson, K. R., Boswell, J. L., & Boyd, M. R. (2000). Haligramides A and B, Two New Cytotoxic Hexapeptides from the Marine Sponge *Haliclona nigra*. *J. Nat. Prod.*, 63(7), 956-959.
- Rashid, M. A., Gustafson, K. R., & Boyd, M. R. (2001). A New Isoquinoline Alkaloid from the Marine Sponge *Haliclona* Species. *J. Nat. Prod.*, 64(9), 1249-1250.
- Rasyid, W. (2015). *Penapisan Aktivitas Sitotoksik Ekstrak Etil Asestat Jamur Simbion Dari Spon Laut *Haliclona fascigera* dengan Metode Brine Shrimp Lethality Test (BSLT)*. Skripsi. Fakultas Farmasi. Universitas Andalas.
- Riss, T. L., Moravec, R. A., Niles, A. L., Benink, H. A., Worzella, T. J., & Minor, L. (2016). Cell Viability Assays. In Sittampalam GS, Coussens NP, Nelson H (Ed.), *Assay Guidance Manual* (pp. 1-31).
- Roberts, M. C. (2003). Tetracycline Therapy : Update. *Antimicrob. Resist*, 36, 462-467.
- Samson, R. A., Visagie, C. M., Houbraken, J., Hong, S.-B., Hubka, V., Klaassen, C. H. W., ... Frisvad, J. C. (2014). Phylogeny, Identification and nomenclature of the genus *Aspergillus*. *Studies in Mycology*, 78, 141-173.
- Selvin, J., Ninawe, A. S., Kiran, G. S., & Lipton, A. P. (2010). Sponge-microbial interactions : Ecological implications and bioprospecting avenues. *Crit. Rev. in Mic. Biol.*, 36(10), 82-90.
- Senthilraja, P., & Kathiresan, K. (2015). In vitro cytotoxicity MTT assay in Vero , HepG2 and MCF -7 cell lines study of Marine Yeast. *J. App. Pharm. Sci*, 5(3), 80-84.
- Sera, Y., Adachi, K., Fujii, K., & Shizuri, Y. (2003). A New Antifouling Hexapeptide from a Palauan Sponge, *Haliclona* sp . *J. Nat. Prod.*, 66(5), 719-721.
- Silverstein, R. M., Webster, F. X., & Kiemle, D. J. (2005). *Spectrometric*

- Identification of Organic Compounds* (Seventh Ed). New York: John Wiley & Sons, INC.
- Sureram, S., Kesornpun, C., Mahidol, C., Ruchirawat, S., & Kittakoop, P. (2013). Directed biosynthesis through biohalogenation of secondary metabolites of the marine-derived fungus *Aspergillus unguis*. *RSC Adv.*, 3, 1781-1788.
- Sureram, S., Wijakrutta, S., Ngamrojanavanich, N., Mahidol, C., Ruchirawat, S., & Kittakoop, P. (2012). Depsidones, Aromatase Inhibitors and Radical Scavenging Agents from the Marine-Derived Fungus *Aspergillus unguis* CRI282-03. *Planta Med.*, 78, 582-588.
- Tan, Y. P., & Chan, E. W. C. (2014). Antioxidant, antityrosinase and antibacterial properties of fresh and processed leaves of *Anacardium occidentale* and *Piper betle*. *Food Bioscience*, 6, 17-23.
- Taylor, M. W., Radax, R., Steger, D., Taylor, M. W., Radax, R., Steger, D., & Wagner, M. (2007). Sponge-Associated Microorganisms: Evolution, Ecology, and Biotechnological Potential. *Microbiol. Mol. Biol. Rev.*, 71(2), 295-347.
- Teruya, T., Kobayashi, K., Suenaga, K., & Kigoshi, H. (2006). Cyclohaliclonamines A - E: Dimeric, Trimeric, Tetrameric, Pentameric, and Hexameric 3-Alkyl Pyridinium Alkaloids from a Marine Sponge *Haliclona* sp. *J. Nat. Prod.*, 69, 135-137.
- Thomas, T. R. A., Kavlekar, D. P., & LokaBharathi, P. A. (2010). Marine Drugs from Sponge-Microbe Association-A Review. *Mar. Drugs*, 8, 1417-1468.
- Thorn, C. F., Oshiro, C., Marsh, S., Hernandez-Boussard, T., McLeod, H., Klein, T. E., & Altman, R. B. (2011). Doxorubicin pathways: pharmacodynamics and adverse effects. *Pharmacogenet Genomics*, 21(7), 440-446.
- Uchida, R., Nakajyo, K., Kobayashi, K., Ohshiro, T., Terahara, T., Imada, C., & Tomoda, H. (2016). 7-Chlorofolipastatin, an inhibitor of sterol O-acyltransferase, produced by marine-derived *Aspergillus ungui* NKH-007. *J. Antibiotics*, 69, 647-651.
- Vandermolen, K. M., Raja, H. A., El-Elimat, T., & Oberlies, N. H. (2013). Evaluation of culture media for the production of secondary metabolites in a natural products screening program. *AMB Express, A Springer Open Journal*, 3(71), 1-7.
- Wang, G. (2006). Diversity and biotechnological potential of the sponge-associated microbial consortia. *J. Int. Microbiol. Biotechnol.*, 33, 545-551.
- Wang, G.-Y.-S., Abrell, L. M., Avelar, A., Borgeson, B. M., & Crews, P. (1998). New Hirsutane Based Sesquiterpenes from Salt Water Cultures of a Marine Sponge-Derived Fungus and the Terrestrial Fungus. *Tetrahedron*, 54, 7335-7342.
- Watson, D. G. (2000). *Pharmaceutical Analysis* (1st ed.). Glasgow: Churchill Livingstone.
- West, L. M., & Faulkner, D. J. (2006). Hexaprenoid Hydroquinones from the

- Sponge Haliclona (aka Adocia) sp . *J. Nat. Prod.*, 69(7), 1001-1004.
- Williams, D. E., Steinø, A., Voogd, N. J. De, Mauk, A. G., & Andersen, R. J. (2012). Halicloic Acids A and B Isolated from the Marine Sponge Haliclona sp. Collected in the Philippines Inhibit Indoleamine 2,3-Dioxygenase. *J. Nat. Prod.*, 75, 1451-1458.
- Xu, L., Meng, W., Cao, C., Wang, J., Shan, W., & Wang, Q. (2015). Antibacterial and Antifungal Compounds from Marine Fungi- Review. *Mar. Drugs*, 13, 3479-3513.
- Zhang, Y., Mu, J., Feng, Y., Wen, L., & Han, J. (2014). Four chlorinated depsidones from a seaweed-derived strain of *Aspergillus unguis* and their new biological activities. *J. Nat. Prod. Res.*, 28(7), 503-506.

