

## DAFTAR PUSTAKA

- Ahluwalia V. K. and S. Raghay. 1997. *Comprehensive Experimental Chemistry*. New Age International. P:31.
- Alam G., P. Astuti, D. Sari, S. Wahyuono and M. T. Hamman. 2005. Structure Elucidation of Bioactive Compounds Isolated from Sponge *Petrosia* sp. Collected Bunaken bat Menado. *Indo J. Chem.* 5(2). P:177-181.
- Amir I. dan A. Budiyanto. 1996. Mengenal Spons Laut (Demospongiae) Secara Umum. *Oseana*. Vol. XXI. No. 2. Hal:15-31.
- Aoki S., K. Dexin, S. Hideaki, S. Yoshihiro, S. Toshiyuki, A. Setiawan, and M. Kobayashi. 2006. Aaptamin a Spongean Alkaloid Activates p21 Promoter in a p53 Independent Manner. *Biochemical and Biophysical Research Communications*. 34(2). P:101-106.
- Aoki S., Y. Yoshioka, Y. Miyamoto, K. Higuchi, A. Setiawan, N. Murakami, Z.S. Chen, T. Sumizawa, S. Akiyama, and M. Kobayashi. 1998. Agosterol A, a Novel Polyhydroxylated Sterol Acetate Reversing Multidrug Resistance from a Marine Sponge of *Spongia* sp. *Tetrahedron Letters*. 39(35). P:6303-6306.
- Arai M., L. Liu, T. Fujimoto, A. Setiawan and M. Kobayashi. 2011. DedA Protein Relates to Action-Mechanism of Halicyclamine A, a Marine Spongean Macrocyclic Alkaloid, as an Anti-dormant Mycobacterial Substance. *Marine Drugs*. 9(6). P:984-993.
- Arai M., S. Ishida, A. Setiawan and M. Kobayashi. 2009. Haliclonyclamines, Tetracyclic Alkylpiperidine Alkaloids, as Anti-dormant Mycobacterial Substances from a Marine Sponge of *Haliclona* sp. *Chem Pharm Bull*. Vol.57. No.10. P:1136-8.
- Arai M., Y. Yamano, A. Setiawan and M. Kobayashi. 2014. Identification of the Target Protein Agelasine D, a Marine Sponge Deterpen Alkaloid, as an Anti-dormant Mycobacterial Substance. *ChemBioChem*. Wiley Online Libraby. 15. P:117-123.

- Ardrey, R. E. 2003. *Liquid Chromatography-Mass Spectroscopy: An Introduction*. John Wiley and Sons, Ltd. University of Huddersfield, UK.
- Barnes C. E., N. A. B. M. Said, E. D. Williams, J. N. A. Hooper and R. A. Davis. Ecionine A and B, Two new Cytotoxic Pyridoacridine Alkaloids from The Australian Marine Sponge, *Ecionemia geodides*. Australia
- Bear Springs Blossom Nature Conservation Group Inc. 2006. *Escherchia coli*. www.nature-education.org. Diakses pada tanggal 3 Desember 2014.
- Burke L., K. Reytar, M. Spalding dan A. Perry. 2012. Menengok Kembali Terumbu Karang yang Terancam di Segitiga Terumbu Karang. *World Resources Institute*. Diterjemahkan oleh Wiyanto Suroso.
- Carballera, N. M. and M. Pagan. 2001. New Methoxy Fatty Acids From The Caribbean Sponge *Callyspongia fallax*. *J. Nat Prod.* 64. P:620-623.
- Chen Y., Y. Peng, C. Gao and R. Huang. 2014. A New Diketopiperazine from South China Sea Marine Sponge *Callyspongia* sp. P:1010-1014.
- Coates J. 2000. Interpretation of Infrared Spectra, a Practical Approach. *Encyclopedia of Analytical Chemistry*. R.A. Meyers. P:10815-10837.
- Corolado J., D. Munoz, D. Marquez, M. E. Marquez, J. Lopez, O. P. Thomas and A. Martinez. 2013. Triterpenoid Saponins from The Caribbean Marine Sponge *Ectyoplasia ferox*. *Molecules*. Vol.18. P2598-2610.
- Dai J., A. Sorribas, W. Y. Yoshida, M. Kelly and Philip. 2011. Xestosaprols from The Indonesian Marine Sponge *Xestospongia* sp. *National Institute of Health Public Access*. Hawaii.
- Diaa, T.A., S. A. Lamiaa and A. Z. Hani. 2013. Bioactive Compounds from The Red Sea Marine Sponge Hyrtios Species. *J. Marine Drugs*. P:1061-1070.
- Foudah A., S. Jain, B. A. Busnena and K. A. El Sayed. 2013. Optimization of Marine Triterpene Siphonolols as Inhibitors of Breast Cancer Migration and Invasion. *The American Chemical Society and American Society of Pharmacognosy*.
- Gandjar G. I. dan A. Rohman. 2007. *Kimia Farmasi Analisis*. Pustaka Pelajar. Yogyakarta. Hal:219.
- Ganiswarna S. G. 1995. *Farmakologi dan Terapi*. Ed. 4. UI-Fakultas Kedokteran. Jakarta.
- Grinberg, N. 1990. *Modern Thin Layer Chromatography*. CRC Press. P:5.

- Grube, A., M. Assman, E. Lichte, F. Sasse, J. R. Pawlik and M. Ko'ck. 2007. Bioactive Metabolites from the Caribbean Sponge Aka coralliphagum. *Journal Natural Product*. 70. P:504-509.
- Harborne J.B. 1996. *Metode Fitokimia: Penuntun Cara Modern Menganalisis Tumbuhan*. Diterjemahkan oleh Kosasih Padmawinata dan Iwang Soediro. ITB. Bandung.
- Harris L. G., S.J. Foster and R. G. Richards. 2002. An Introduction *Staphylococcus aureus* and Techniques for Identifying and Quantifying *S. aureus* Adhesins in Relation to Biomaterials : Review. *AO Research*. Vol.4. P:39-60.
- Harvey D. 2000. *Modern Analytical Chemistry*. New York. McGraw-Hill Comp.
- Heftman E. 1983. *Fundamental and Application of Chromatographic and Electrophoretic Methods*. Elsevier Scientific Publishing Company. Amsterdam. P:139-160.
- Honeyman A., H. Friedman and M. Bendinelli. 2006. *Staphylococcus aureus Infection and Disease*. Springer Science and Business Media. P:1,35.
- Hostettman K., M. Hostettman dan A. Marston. 1995. *Cara Kromatografi Preparatif Penggunaan Pada Senyawa Bahan Alam*. Alih Bahasa oleh Kosasih Padmawinata. ITB. Bandung. Hal:1-38.
- Huang R. M., W. Ma, D. Juan-De, Z. Xue-feng, T. Xu, J. K. Lee, X. Yang, Shi-Hai and Y. Liu. 2010. A New 1,4-Diazepine from South China Sea Marine Sponge *Callyspongia* sp. *Molecules Journal*. 15. P:871-877.
- Huber J. F. K. 2011. Instrumentation for High Performance Liquid Chromatography. *Journal of Chromatography Library*. Elsevier. P:163.
- Ibrahim M. R. S., C. C. Min, F. Teuscher, R. Ebel, C. Kakoschke, W. Lin, V. Wray, R. E. Ebel and P. Proksch. 2010. Callyaerins A-F and H, new Cytotoxic Cyclic Peptides from the Indonesian Marine Sponge *Callyspongia aerizusa*. Vol.18. *Bioorganic and Medicinal Chemistry*. P:4947-4956.
- Ichsan A. dan A. Budiyanto. 1996. Mengenal Spons Laut (Demospongiae) Secara Umum. *Oseana*. Volume XXI. No. 2. Hal:15-31.
- Jawetz E., J. L. E. A. Melnick, G. F. Aldelberg, J. S. Brooks, Butel and L. N. Ornston. 1995. *Microbiology*. Ed. 20. University of California. San Francisco.

- Johnson E.L. dan Stevenson. 1991. *Dasar-dasar Kromatografi Cair*. Diterjemahkan oleh Kosasih Padmawinata. ITB. Bandung. Hal:50-55.
- Jiao H. W., J. Li, Q. Liu, T. Xu, G. Shi, H. Yu, F. Yang, B. Han, M. Li and H. Lin. 2014. Dysidionid A, an Unusual Meroterpenoid with Anti-MRSA Activity from the South China Sea Sponge *Dysidea* sp. *Marine Drugs*. 19. P:18025-18032.
- John. 2010. Sponges. [www.ryanphotographic.com](http://www.ryanphotographic.com). Diakses pada tanggal 3 Desember 2014.
- John R. 2013. *Staphylococcus aureus mastitis: Have We Learned Anything In The Last 50 Years*. *USANMC Regional Meeting Proceedings*. Middleton University of Missouri Columbia. Missouri.
- Jompa, J. 2009. Peluang dan Tantangan Pengelolaan Terumbu Karang Indonesia: *CTI dan COREMAP*. Makassar.
- Joseph B and Sujatha. 2011. Pharmacologically Important Natural products from Marine Sponges. *Journal of Natural Products*. Vol. 4. P:05-12.
- Jork H., W. Funk, W. Fischer and H. Wimmer. 1990. Thin-Layer Chromatography Reagents and Detection Methods. Germany. Vol.1.
- Khopkar S.M. 2002. *Konsep Dasar Kimia Analitik*. Diterjemahkan oleh A. Saptorahardjo. Universitas Indonesia. Jakarta. Hal:84-311.
- Kobayashi M., K. Higuchi, N. Mukarami, H. Tajima and S. Aoki. 1997. Callystatin A, A Potent Cytotoxic Polyketida from The Marine Sponge *Callyspongia*. *Tett Lett*. 38. P:2859-2862.
- Kozloff, EN. 1990. *Invertebrates*. Saunders College Publishing. Hal:73–92.
- Lee Y., K. H. Jang, J. Jeon, W. Yang, C. J. Sim, K. Oh and J. Shin. 2012. Cyclic Bis-1,3-Dialkylpyridiniums from The Sponge *Haliclona* sp. *Marine Drugs*. 10. P:2126-2137.
- Lemhannas. 2013. Pemanfaatan Sumber Daya Laut Guna Meningkatkan Perekonomian Rakyat Dalam Rangka Meningkatkan Ketahanan Ekonomi Nasional. *Jurnal Kajian Lemhannas*. Jakarta. Edisi 16. Hal:4-5.
- Madigan T.D., J.M. Martinko and J. Parker. 2009. *Brock Biology of Microorganism*. Ed 12. Pearson/Benjamin Cummings. San Fransisco.

- Mbah J.A., M.N. Ngemenya, A.L. Abawah, S.B. Babiaka, L.N. Nyongbela, K.D. Iemuh and S.M. Efange. 2012. Bioassay-guide Discovery of Antibacterial Agents : In vitro Screening of *Peperomia vulcanica*, *Peperomia fernandopoioana* and *Scleria stiriatinux*. *Journal Annals of Clinical Microbiology and Antimicrobial*. 11:10.
- McMurry, J. 2010. *Organic Chemistry*. Brooks/Cole, Cengage Learning. United States. Eight edition.
- Melliawati, R. 2009. *Escherchia coli dalam Kehidupan Manusia*. BioTrends. Vol.4. No.1.
- Mozaix. 2011. Spektrofotometer masa. gusnil45mind.wordpress.com. Diakses pada tanggal 5 Januari 2014.
- Owen, T. 2000. Fundamentals of Modern UV-Visible Spectroscopy. *Agilent Technologies*. Jerman.
- Pelczar M.J. dan Chan. 2005. *Dasar-Dasar Mikrobiologi*. Diterjemahkan oleh Hadioetomo. UI-Press. Jakarta.
- Poole, C. 2009. *Handbook of Method and Instrumentation in Separation Science*. Vol 1. Academic Press. P:72.
- Popl. 1990. *Chomatographic Analysis of Alkaloids*. CRC Press. P:664.
- Proksch P., R. Ebel, R. A. Edrada, V. Wray and K. Steube. 2003. Sponges (Porifera), Bioactive Natural Products from Marine Invertebrates and Associated Fungi. Vol. 3. P:117-142.
- Sastrohamidjojo H. 2001. *Dasar-Dasar Spektroskopi*. Liberty. Yogyakarta. Hal :35-50.
- Saxena P. B. 2007. *Chemistry of Alkaloids*. Discovery Publishing House. P:338
- Schaffer M. W. 2009. *Invertebrates*. Spring. Chapter 33.
- Sherma J. and F. Bernard. 2003. *Handbook of Thin Layer Chromatography*. CRC Press. P:62.
- Shirouzu T., K. Watari, M. Ono, K. Koizumi, I. Saiki, C. Tanaka, R. W. M. van Soest and T. Miyamoto. 2013. Structure, Synthesis and Biological of a-C-10 Bisacetylenic Alcohol from a Marine Sponge *Callyspongia* sp. *J Nat Prod*. 76(7). P:1337-1342.
- Silverstein R.M., G.C. Bassler dan T.C. Morrill. 1986. *Penyidikan Spektrometri Senyawa Organik*. Diterjemahkan oleh A.J. Hartono dan Purba A.V. Erlangga. Jakarta. Hal:3-330.

- Snyder, L. R. and Kirkland. 1979. *Introduction to Modern Liquid Chromatography*. John Wiley & Sons, Inc New York, Chichester, Brisbane, Toronto, Singapore.
- Usman H., R. Bahar, E. Yohanes, Rahmawaty and A. Ahmad. 2012. Isolation, Chemical Characterization, and Bioactivity of Secondary Metabolites With Polar Constituents of Petrossian alfiani Sponges. Makassar.
- Volk, W. A. dan M. F. Wheeler. 1993. *Mikrobiologi Dasar Jilid I*. Diterjemahkan oleh Markham. Edisi V. Erlangga. Jakarta.
- Wei X., T. S. Bugni, M. K. harper. I. T. Saldoval, E. J. Manos, J. Swift, R. M. V. Wagoner, D. A. Jones and C. M. Ireland. 2010. Evaluation of Pyridoacridine Alkaloids in a Zebrafish. *Marine Drugs*. Vol.8. P:1769-1778.
- Williamson K. and K. Masters. 2010. *Macroscale and Microscale Organic Experiments*. Cengage Learning. P:131.
- Wink, M. 1999. *Functions of Plant Secondary Metabolites and Their Exploitation in Biotechnology*. Taylor and Francis. P:1-3.
- Yim, S.K., S.J. Yun and C.H. Yun. 2004. A Continuous Spectrophotometric Assay for NADPH-cytochrome P450 Reductase Activity Using 1,1-Diphenyl-2-Picrylhydrazyl. *J. Biochem. Mol. Biol.* 27. P:629-633.