

## DAFTAR PUSTAKA

- Algabase. 2016. *Sargassum hystrix* J. Argardh. [http://www.algaebase.org/search/species/detail/?species\\_id=11418](http://www.algaebase.org/search/species/detail/?species_id=11418). Diakses December 2016.
- Alimul, A. 2009. Metode Penelitian Keperawatan dan Teknik Analisis Data. Salemba Medika. Jakarta.
- Anonim. 2008. Kumpulan Kuliah Farmakologi. Edisi 2. EGC. Jakarta.
- Aslan, L.M. 1991. Budidaya Rumput Laut. Kanisius. Yogyakarta.
- Astuti, P., S. Asmarani, C.M.Airin, M. Hera, and S. Luthfirda. 2009. Comparison level of cortisol and ratio of neutrophil/lymphocytes as acute stress marker to long transportation of bligon bucks. Proceeding International Seminar on Zoonotic and Tropical Disease. Faculty of Veterinary Medicine. Universitas Gadjah Mada. Yogyakarta.
- Bonnefont-Rousselot, D., J.P. Bastard, M.C. Jaudon, and J. Delattre. 2000. Consequences of the diabetic status on the oxidant/antioxidant balance. Journal Diab Metab 26: 163-176.
- Budhiyanti, S.A., S. Raharjo, W. Djagal, Marseno, and I.Y.B. Lelana. 2011. Free radical scavenging, metal chelating and singlet oxygen quenching activity of fractionated brown seaweed *Sargassum hystrix* extract. Journal Biological Sciences. 11: 288-298.
- Campbell, N. A., J. B. Reece, and L. G. Mitchell. 2004. Biologi Edisi Kelima. Jilid 3. Alih Bahasa Wasmen Manalu. Erlangga. Jakarta.
- Cairns, D. 2008. Intisari Kimia Farmasi. Alih Bahasa : Rini Maya. EGC. Jakarta.
- Chrousos, G. P., D. L. Loriaux, and P. W. Gold. 1988. Mechanisms of Physical and Emotional Stress. Springer Science+Business Media. New York. USA.
- Chowienczyk, P.J, G.F. Watts, J.R. Cockcroft, S.E. Brett, and J.M. Ritter. 1994. Sex Differences in Endothelial Function in Normal and Hypercholesterolaemic Subjects. Lancet. 344(8918): 305-306.
- Dachriyanus., D.O. Katrin, R. Oktarina, O.Ernas, , M. Suhatri, and H. Mukhtar. 2010. Uji efek A-mangostin terhadap kadar kolesterol total, trigliserida, kolesterol HDL dan kolestrol LDL darah mencit putih jantan serta penentuan lethal dosis 50 (Ld50). Jurnal Sains dan Teknologi Farmasi. 12(2) : 64-72.
- DiaSys Diagnostic Systems. 2009. Glucose GOD FS. DiaSys Diagnostic Systems GmbH. Germany.
- DiaSys Diagnostic Systems. 2012a. Triglyserides FS. DiaSys Diagnostic Systems GmbH. Germany.

- DiaSys Diagnostic Systems. 2012b. Cholesterol FS. DiaSys Diagnostic Systems GmbH. Germany.
- Ensminger ME, Oldfield JE, WW. Heinemann. 1990. Feed and Nutrition Digest. Ed ke-2. Ensminger Publishing Company. California.
- Esch, T., G. B. Stefano, G. L. Fricchione, and H. Benson. 2002. The role of stress in neurodegenerative diseases and mental disorders. *Neuroendocrinol Lett.* 23(3): 199-208.
- Friedman, M. dan Jurgens H.S. 2000. Effect of pH on the Stability of Plant Phenolic Compounds. Western Regional Research Center. USA.
- Gamal, E. 2010. Biological importance of marine algae. *Saudy Journal Pharmacy.* 18: 1-25.
- Ghedolf, N. and N.J. Engeseth. 2002. Antioxidant capacity of honeys from various floral sources based on determination of oxygen radical absorbance capacity and inhibition of in vitro lipoprotein oxidant in human serum samples. *Journal of Agricultural and Food Chemistry.* 50(10): 3050-3055.
- Gehlot, A., J. L. Godhwan, S. M. L. Asen, P. Jain, and M. C. Vyas. 1997. Sound stress induced changes and their modification by drugs in albino rats : An experimental study. *Indian Journal Pharmacol.* 29(3): 187-189.
- Gong, S., Y. L. Miao, G. Z. Jiao, M. J. Sun, H. Li, J. Lin, M. J. Luo, and J. H. Tan. 2015. Dynamics and correlation of serum cortisol and corticosterone under different physiological or stressful conditions in mice. *Plos One. A Peer-Reviewed, Open Access Journal.* 10(2): e0117503.
- Grotewold, E. 2008. *The Science of Flavonoids.* Springer Science+Business Media. USA.
- Hanrahan, J., and W. Taylor. 2017. Cortisol (Blood). [https://www.urmc.rochester.edu/encyclopedia/content.aspx?ContentTypeID=167&ContentID=cortisol\\_serum](https://www.urmc.rochester.edu/encyclopedia/content.aspx?ContentTypeID=167&ContentID=cortisol_serum). Diakses Juli 2017.
- Harbone, J. B. 1984. *Phytochemical Methods : A Guide To Modern Techniques of Plant Analysis.* Second Edition. Chapman and Hall. New York-USA.
- Harborne, J. B. 1987. *Metode Fitokimia.* Edisi ke-2. penerjemah Kosasih Padmawinata. ITB-Press. Bandung.
- Haridas, V., M. Hanausek, G. Nishimura, H. Soehnge, A. Gaikwad, M. Narog, E. Spears, R. Zoltaszek, Z. Walaszek, and J.U. Gutterman. 2004. Triterpenoid electrophiles (avicins) activate the innate stress response by redox regulation of a gene battery. *Journal Clin Invest.* 113(1): 65-73.
- Hawley, T. S. and R. G. Hawley. 2004. *Methods in Molecular Biology : Flow Cytometry Protocols.* 2<sup>nd</sup> Edition. Humana Press. New Jersey. USA.
- Hendayana, S. 1994. *Kimia Analitik Instrumen.* IKIP Semarang Press. Semarang.

- Heo, S.J. and Y.J. Jeon. 2009. Protective effect of fucoxanthin isolated from *Sargassum siliquastrum* on UV-B induced cell damage. *Journal of Photochemistry and Photobiology B. Biology.* 95: 101 – 107.
- Hu, L., J. Yang, T. Song, N. Hou, Y. Liu, X. Zhao, D. Zhang, L. Wang, T. Wang, and C. Huang. 2014. A new stress model, a scream sound, alters learning and monoamine levels in rat brain. *Journal Physiology and Behavior.* 123: 105-113.
- James, J., C. Baker, and H. Swain. 2008. Prinsip-Prinsip Sains untuk Keperawatan. Alih Bahasa : Indah Retno Wardhani. Erlangga. Jakarta.
- Kang, C., Y.B. Jin, H. Lee, M. Cha, E. Sohn, J. Moon, C. Park, S. Chun, E. Jung, J. Hong, S.B. Kim, J. Kim, and E. Kim. 2010. Brown alga *Ecklonia cava* attenuates type 1 diabetes by activating AMPK and Akt signaling pathways. *Journal Food and Chemical Technology.* 48: 509-516.
- Kang, M.C., S.H. Cha, W.A.J.P. Wijesinghe, S.M. Kang, S.H. Lee, E.A. Kim, C.B. Song, and Y.J. Jeon. 2012. Protective effect of marine algae phlorotannins against AAPH-induced oxidative stress in zebrafish embryo. *Journal. Food Chemistry.* 138: 950-955.
- Kee, J.L, and E.R. Hayes. 1996. Farmakologi: Pendekatan Proses Keperawatan. Alih Bahasa : Peter Anugerah. EGC. Jakarta.
- Lailatussifa, R, A. Husni, and A. E. Nugroho. 2016. Anti-stress activity of *Sargassum polycystum* extracts using a cold restraint stress Model. *Food Science and Biotechnology.* 25: 589-594.
- Lann, K.L., C. Ferret, E. VanMee, C. Spagnol, M. Lhuillery, C. Payri, and V. Stiger-Pouvreau. 2012. Total phenolic, size-fractioned phenolics and fucoxanthin content of tropical Sargassaceae (Fucales, Phaeophyceae) from the South Pacific Ocean: Spatial and Specific Variability. *Journal Phycological Research.* 60: 37-50.
- Lee, S.H., M.H. Park, S.J. Heo, S.M. Kang, S.C. Ko, J.S. Han, and Y.J. Jeon. 2010. Dieckol isolated from *Ecklonia cava* inhibit  $\alpha$ -Glukoidase and  $\alpha$ -Amilase *in vitro* and alleviates postprandial hyperglcemia in streptozotocin-induced diabetic mice. *Journal Food and Chemical Toxicol.* 48: 2633-2637.
- Linskens, H.F. and J.F. Jackson. 1999. *Modern Methods of Plant Analysis Analysis of Plant Waste Materials Vol 2.* Springer Verlag Berlin Heidelberg. Germany.
- Lordan, S., R.P. Ross, and C. Stanton. 2011. Marine bioactives as functional food ingredients: potential to reduce the incidence of chronic diseases. *Jounal Marine Drug.* 9: 1056–1100.
- Manikandan, S., M.K. Padma, R. Srikumar, P.N. Jeya, A. Muthuvel, and D.R. Sheela. 2006. Effect of chronic noise stress on spatial memory of rats in relation to neuronal dendritic alteration and free radical-imbalance in hippocampus and medial prefrontal cortex. *Neurosci Lett.* 399(1-2): 17-22.

- Marks, D.B., A.D. Marks, and C.M. Smith. 1996. Biokimia Kedokteran: Sebuah Pendekatan Klinis. Alih bahasa : Brahm U. Pendit. Penerbit EGC. Jakarta.
- Mawardi, A. 2015. Keanekaragaman *Sargassum* spp. di Pantai Rontu Kabupaten Bima NTB dan Potensinya sebagai Substrat Pembuatan Etanol. Fakultas Biologi. Universitas Gadjah Mada. Thesis.
- Nilawati, S., D. Krisnatuti, B. Mahendra, and O.G. Djing. 2008. Care Yourself, Kolesterol. Penebar Plus<sup>+</sup>. Jakarta.
- Nurfahmi, A. R. 2016. Pengaruh Pemberian Bubuk *Sargassum hystrix* terhadap Kadar Glukosa Darah Tikus Wistar Diabetes. Fakultas Pertanian. Universitas Gadjah Mada. Skripsi.
- Ottosson, M., P. Lönnroth, P. Björntorp, and S. Edén, 2000. Effects of cortisol and growth hormone on lipolysis in human adipose tissue. *Journal Clin. Endocrinol. Metab.* 85: 799–803.
- Peckett, A.J., D.C. Wright, and M.C. Riddell. 2011. The effects of glucocorticoids on adipose tissue lipid metabolism. *Journal Metabolism.* 60: 1500–1510.
- Petti, S. and S. Crispian. 2009. A review : polyphenols, oral health and disease. *Journal of Dentistry.* 37: 413-423.
- Prabhakaran, K., N. Suthantirarajan, and A. Namasivayam. 2003. Biochemical changes in acute noise stress in rats. *Indian Journal Physiol Pharmacol.* 32: 100-4.
- Pratiwi, T. 2013. Uji aktivitas ekstrak metanolik *Sargassum hystrix* dan *Eucheuma duplicatum* dalam menghambat  $\alpha$ -amilase dan  $\alpha$ -glukoidase. Fakultas Pertanian. Universitas Gadjah Mada. Skripsi.
- Pubchem. 2016. Open Chemistry Database : National Center for Biotechnology Information. USA. <https://pubchem.ncbi.nlm.nih.gov/>. Diakses tanggal 8 Desember 2016.
- Rahayu, S. Y., T. Widiyani, and Sutarno. 2005. Pertumbuhan dan perkembangan embrio tikus putih (*Rattus norvegicus* L.) setelah perlakuan kebisingan. *Journal Bio-Smart.* 7: 53-59.
- Rosiana, N. 2010. Hormon Korteks Adrenal. Universitas Padjajaran. Bandung.
- Rubenstein, D., D. Wayne, and J. Bradley. 2005. Lecture Notes: Kedokteran Klinis. Edisi Keenam. Alih Bahasa : Annisa Rahmalia. Erlangga. Jakarta.
- Saifudin, A. 2014. Senyawa Alam Metabolit Sekunder Teori, Konsep, dan Teknik Pemurnian. Budi Utama. Yogyakarta.
- Samudra, A., G.B. Dewi, A.E. Nugroho, and A. Husni. 2015. Aktivitas inhibisi  $\alpha$ -Amilase dan  $\alpha$ -Glukosidase oleh ekstrak polisakarida dan senyawa polifenol dari *Eucheuma denticulatum* dan *Sargassum hystrix*. Prosiding seminar nasional dan workshop “perkembangan terkini sains dan klinik”. 338-34.

- Septiana, A.T., and A. Asnani. 2013. Aktivitas Antioksidan Ekstrak Rumput Laut *Sargassum duplicatum*. Jurnal Teknologi Pertanian. 14: 79-86.
- Singh, A.K., S. S. Dhamanigi, and M. Assad. 2011. Anti-stress activity of hydroalcoholic extract of *Eugenia caryophyllus* buds (Clove). Indian Journal Pharmacol. 41(1): 28-31.
- Soetjningsih. 1995. Tumbuh Kembang Anak. EGC. Jakarta.
- Solarin B. B., D. A. Bolaji, O. S. Fakayode, and R.O. Akinnigbagbe. 2014. Impacts of an invasive seaweed *Sargassum hystrix* var. *fluitans* (Børgesen 1914) on the fisheries and other economic implications for the Nigerian coastal waters. IOSR Journal of Agriculture and Veterinary Science. 7(7): 1-6.
- Soong, Y. Y., and P. J. Barlow. 2005. Isolation and structure elucidation of phenolic compounds from longan (*Dimocarpus longan* Lour.) seed by high-performance liquid chromatography–electrospray ionization mass spectrometry. Journal of Chromatography A. 1085: 270–277.
- Sugianto, N.L. 2011. Pemberian jus delima merah (*Punica granatum*) dapat meningkatkan kadar glutathione peroksidase darah pada mencit (*Mus musculus*) dengan aktivitas fisik maksimal. Program Pascasarjana. Thesis Master.
- Sumardjo, D. 2006. Pengantar Kimia : Buku Panduan Kuliah Mahasiswa Kedokteran dan Program Strata 1 Fakultas Bioeksakta. Penerbit Buku Kedokteran EGC. Jakarta.
- Supriyatna, Mulyono M.W., Y. Iskandar, and R. M. Febriyanti. 2014. Prinsip Obat Herbal : Sebuah Pengantar Untuk Fitoterapi. Budi Utama. Yogyakarta.
- Tache, Y., P.D. Ruisseau, J. Tache, H. Selye, and R. Collu. 1976. Shift in adrenohypophyseal activity during chronic intermittent immobilization of rats. Journal Neuroendocrinology. 22: 325-336.
- Wattanathron, J., T. Tong-un, S. Muchimapura, P. Wannanon, B. Sripanidkulchai, and W. Phachonpai. 2013. Anti-stress effects of *Kaempferia parviflora* in immobilization subjected rats. American Journal Of Pharmacology and Toxicology. 8(1): 31-38.
- Welch, C. 2011. Balance Your Hormones, Balance Your Life. Penerjemah Dewi Wulan. Penebar Plus<sup>+</sup>. Depok.
- Wisse, B., D. Zieve, and I. Ogilvie. 2015. Cortisol Blood Test. <https://medlineplus.gov/ency/article/003693.htm>. Diakses Juli 2017.
- Zhang, J., T. Christa, S. Jingkai, W. Can, S.G. Gabrielle, D. Dorothy, J.B. Collin, M. Mingsan, and E. Stephen. 2007. Antidiabetic properties of polysaccharide and polyphenolic enriched fractions from the brown seaweed *Ascophyllum nodosum*. Journal Physiol. Pharmacol 85: 1116-1123.
- Zheng, G., L. Xu, P. Wu, H. Xu, Y. Jiang, F. Chen, and X. Wei. 2009. Polyphenols from longan seeds and their radical-scavenging activity. Journal Food Chemistry. 116: 433–436.