



## DAFTAR PUSTAKA

- Adebayo, B. C. & Onilude, A. A. 2008. Screening of Lactic Acid Bacteria Strain Isolated from Some Nigerian Fermented Foods for EPS Production. *World Applied Sciences Journal*. Vol 4(5): 741-747.
- Alexopoulos, C. J. 1979. *Introductory Mycology*. 3rd Ed. John Wiley, New York.
- Anonim. 2011. <http://rxlist.com/precose-drug.htm>. Diakses tanggal 19 Januari 2015.
- Anonim. 2012. <http://www.informasiobat.com/acarbose>. diakses tanggal 14 Januari 2015.
- Axelson, L. 2004. *Lactic Acid Bacteria: Clasification and physiology*. Marcel Dekker, Inc, New York.
- Axelson, L. 1998. Lactic acid bacteria: classification and physiology. In *Lactic Acid Bacteria: Microbiology and Functional Aspects*. Salminen, S., and von Wright, A. (Ed.). Marcel Dekker Inc.:New York, U. S. A. pp 1-72.
- Bachhawat, A., J. Mohamed, J. S. S. & Thirumurugan, K. 2011. Screening of fifteen indian ayurvedic plants for alpha-glucosidase inhibitory activity and enzyme kinetics. *International Journal of Pharmacy and Pharmaceutical Sciences*. Vol 3.
- Bao, X., Fang, C. L. J. & Li, X. 2001. Structural and immunological studies of a major polysaccharides from *Ganoderma lucidum* (Fr.) Karst. Carbohydrats. 332:67-74.
- Benzie, I. F. F. & Galor, S. W. 2010. *Herbal Medicine: Biomolecular and Aspect*. 2<sup>ne</sup> edition. CRC Press. Francis.
- Brock, T. D. & Madigan, M. T. 1991. *Biology of microorganism*. 6<sup>th</sup> ed. Prentice-Hall, Inc., New Jersey.
- Campbell, N. A., Reece, J. B. & Mitchell, L. G. 2002. *Biology*. 5<sup>th</sup> ed. Erlangga. Jakarta
- Champe, P., Harvey R. & Ferrier D. 2010. *Lippincott's Illustrated Review : Biochemistry*. 3<sup>rd</sup> ed. London: Wolters Kluwer, pp. 57-62.
- Chang, S.T. & P.G. Miles. 2004. *Mushrooms cultivation, nutritional value, medicinal effect, and environmental impack*. Second Edition. 477 p. CRC Press. Boca Raton London New York Washington, D.C.
- Chen, H., Yan, X. Lin, W., Zheng, L. & Zhang, W. 2004. A new method for screening  $\alpha$ -glucosidase inhibitors and application to marine microorganisms. *Pharmaceutical Biology*. 42: 416-421.
- Chen, Y. S., Yanagida, F. & Shinohara, T. 2005. Isolation and identification of lactic acid bacteria from soil using an enrichment procedure. *Letter in Applied Microbiology*. 40: 195-200
- Cheng, Y. W. & Caughey, A. B. 2007. Gestational Diabetes. *Journal of Perinatology*. 27: 257-258.
- Coombs J. T. & Franco, C.M. 2003. Isolation and identification of Actinobacteria from surface-sterilized wheat roots. *Applied Environmental Microbiology*. 69: 5603-5608.
- Corwin, E. J. 2001. *Handbook of Pathophysiology*. Pendid. Jakarta. pp. 542-557



- Dening, Jedha. 2010. *Insulin Resistance*. Good Food Eating.
- Dipiro, J. T., Talbert, R. L., Yees, G. C., Matzke, G. R. Wells, B. G. & Posey, L. M. 2005. *Pharmacotherapy A Pathophysiological Approach*. New York. McGraw-Hill.
- Evvyernie, D., Irawadi, T. T., Tanuwiryo, D., Lubnah,, Kurniastuti, A., Purwaningrum, I. F., & Priono, E. 2002. *Peningkatan nutrisi limbah serat kelapa sawit untuk pakan hijauan alternatif melalui pengolahan dengan kapang isolat dan Ganoderma lucidum*. Laporan Akhir Hibah Penelitian Projek DUElike Institut Pertanian Bogor.
- Fardiaz, S. 1992. *Mikrobiologi Pangan 1*. Pusat Antar Universitas Pangan dan Gizi. Institut Pertanian Bogor, Bogor.
- Febrina, R. 2002. *Karakterisasi isolat jamur berpotensi mendegradasi lignin*. Skripsi. Fakultas Matematika dan Ilmu Pengetahuan Alam. Institut Pertanian Bogor, Bogor.
- Fugelsang, K. C. and C. G. Edwards. 2007. *Wine Microbiology: Practical Application and Procedures 2nd Ed*. Springer. New York. pp. 36-38
- Guyton, Arthur C., and Hall, John E. 2007. *Buku Ajar Fisiologi Kedokteran* Edisi 11. EGC. Jakarta
- Hallmann, J., Quadt H. A., Mahaffee W. F. & Kloeppe, J. W. 1997. Bacterial Endophytes in Agriculture crops. *Canadian Journal of Microbiol.* 43:895-914.
- Harley & Prescott. 2002. *Laboratory Exercises in Microbiology*. The McGraw-Hill. New York.
- Hattori M. 1997. Inhibitory effect of components from *Ganoderma lucidum* on the growth of human immunodeficiency virus (HIV) and the Protease Activity. p.: 128-135. *Proceedings of the 1<sup>st</sup> International Symposium on Ganoderma lucidum* Nov. 17-18, 1997 in Tokyo, Japan.
- Ieyama, T., Maria, D. P. T., Gunawan, P. & Kawabata, J. 2011. a-Glucosidase inhibitors from the bulb of *Eleutherine americana*. *ELSEVIER journal Food Chemistry* 128: 308–311.
- James, Joyce. 2006. *Principles of Science for Nurses*. Penerbit Erlangga. Jakarta
- Jay, J. M., Loessner, M. J. & Golde, D. A. 2005. *Modern Food Microbiology*. 7<sup>th</sup> ed. Springer, New York.
- Jutono, J. S., Hartadi, S., Kabirun, S. Suhadi, D. & Soesanto. 1980. *Pedoman Praktikum Mikrobiologi Umum untuk Perguruan Tinggi*. Departemen Mikrobiologi. Fakultas Pertanian. UGM. Yogyakarta.
- Kogel, K. H., Franken, P. & Huckelhoven, R., 2006, Endophyte or Parasite — What Decides, *Current Opinion Plant Biology Journal.*, 9, 358–363.
- Lambui, O. 2013. *Isolasi Karakterisasi dan Identifikasi Bakteri Asam Laktat Penghasil α dan β Galaktosidase Produk Fermentasi Kulit Buah Cempedak [Arthrocarpus integer (Thunb.) Merr.] dan Bunga Tigarun [Crataeva nurvala Buch-Ham]*. Tesis UGM.
- Lehniger. 1990. *Dasar-dasar Biokimia*. Jilid 1. Erlangga. Jakarta.
- Li, F., Zhang, Y. & Zhong, Z. 2011. Antihyperglycemic Effect of *Ganoderma lucidum* Polysaccharides on Streptozotocin-Induced Diabetic Mice. *International Journal of Molecular Sciences*. 12: 6135-6145.



- Li, J., Zhao, G.Z., Chen, H.H., Wang, H.B., Qin, S., Zhu, W.Y., Xu, L.H., Jiang, C.L., & Li, W. J., 2008. Antitumour and Antimicrobial Activities of Endophytic Streptomyces from Pharmaceutical Plantsin Rainforest. *Letters in Applied Microbiology*. 47, 574–580.
- Liu, G.T. 1993. *Pharmacology and clinical uses of Ganoderma*. The Chinese University Press. Hong Kong. pp. 267-273.
- Loranza, B. 2012. *Uji Penghambatan Aktivitas Enzim Alfa-Glukosidase dan Identifikasi Golongan Senyawa Kimia dari Fraksi Teraktif Daun Buni (Antidesma bunius L.)*. Skripsi. FMIPA UI.
- Luo, L., Wang, R., Wang X., Ma Z. & Li N. 2012. Compounds from *Angelica keiskei* with NQO1 induction, DPPH scavenging and alpha glucosidase inhibitory activities. *Food Chemistry* 131. 992-998.
- Manaharan T., Appleton, D., Cheng, H. & Palanisamy, U. 2011. Flavonoids isolated from from *Syzygium aqueum* leaf extract as potential antihyperglycemic agent. *Food Chemistry*. 132: 1802-1807
- McGown, J. 2006. *DM Drug Produced by aMicrobe in Out of Africa: Mysteries of Access and Benefit Sharing*. Beth Burrows(ed). The Edmonds Institute. Washington. USA.
- Misra, A. K., Mishra, A. S., Tripathi, M. K., Prasad, R., Vaithiyanathaan, S. & Jakhmola, R. C. 2007. Optimization of solid state fermentation of mustard (*Brassica campestris*) straw for production of animal feed by white rot fungi (*Ganoderma lucidum*). *Asian-Aust. J. Anim. Sci.* 20 (02): 208-213.
- Murray, R. K., Daryl K. G. & Victor W. R. 2009. *Harper's Biochemistry*. 27<sup>th</sup>. Penerbit Buku Kedokteran EGC. Jakarta
- Ningsih, D., Enadang S. R. & Dewi E. 2009. Aktivitas Antidiabetes Jamur Lingzhi (*Ganoderma lucidum*) pada Tikus Putih Jantan. *Jurnal Farmasi Indonesia*. 6 (3): 1-15.
- Pujiyanto, S. & Ferniah, R. S. 2010. Aktivitas Inhibitor Alpha-Glukosidase Bakteri PR-3 yang Diisolasi dari Tanaman Pare (*Momordica charantina*). *BIOMA*. 12 (01): 1-5.
- Pujiyanto, S., Lestari, Y., Suwanto, A., Budiarti, S. & Darusman, L. 2012. Alpha-glucosidase inhibition activity and characterization of endophytic actinomycetes isolated from some Indonesian diabetic medicinel plant. *International Journal of Pharmaceutical sciences*. Vol 4.
- Putri, W. D. R., Haryadi, Marseno, D. W. & Cahyanto, M. N. 2012. Isolasi dan karakterisasi bakteri asam laktat amilolitik selama fermentasi growol, makanan tradisional indonesia. *Jurnal Teknologi Pertanian* Vol. 13 (1): 52-60.
- Ramchandran, L, & Shah, N. P. 2008. Proteolytic profiles and angiotensin-1converting enzyme and alpha-glucosidase inhibitory activities of selected lactic acid bacteria. *Jurnal of Food Science* 73(2): M75-M81.
- Rosenbloom, A. L., Jennie R. J., Robert S. Y. & William E. W. 1991. Emerging Epidemic of Type 2 DM in Youth. *Dieabetes care* 22 ( 2): 345-354.
- Rouse, S., Sun, F., Vaughan, A. & Sinderen, D. V. 2007. High-Throughput Isolation of Bacteriocin-Producing Lactic Acid Bacteria, with Potential



- Application in the Brewing Industry. *Journal of The Institute of Brewing*. 113 (3): 256-262.
- Sarkono, Rahman, F. & Sofyan, Y. 2010. Isolation and Identification of Lactic Acid bacteria from Abalone (*Haliotis asinina*) as a Potential Candidate of Probiotic. *Bioscience journal*. Vol 2 (1): 38-42.
- Sarkono. 2005. *Isolasi, Seleksi, Karakterisasi, Klasifikasi dan Identifikasi Bakteri Asam Laktat Penghasil Bakteriosin dari Berbagai Buah Masak*. Tesis UGM.
- Schulz, B. & Boyle, C. 2006. What are Endophyte. *Soil Microbiology*. Vol 9. Springer-Verlag Berlin Heidelberg.
- Shaheen, F., Ahmad, M. Khan, S. N., Hussain, S. S., Anjum, S., Tashkhodjaev, B., Turgunov, K., Sultankhodzhaev, M. N., Choudhary, M. I. & Rahman, A. 2006. New  $\alpha$ -Glucosidase Inhibitors and Antibacterial Compounds from *Myrtus communis* L. *European journal of organic chemistry*. 2371–2377
- Shinde, J., Taldone T., Barletta M., Kunaparaju N., Bo H. & Kuamr S. 2008. Alpha glucosidase inhibitory activity of *Syzygium cumini* (Linn) Skeel seed kemel in vitri and in Goto-Kakizaki (GK) rats. *Carbohydrate Research*. 343: 1278-1281.
- Si, M. 2010. Insulin releasing and  $\alpha$ -glukosidase. inhibitory avtivity of ethyl acetat fraction of *Acorus calamus* in vitro and in vivo. *Journal of Ethnopharmacology* 128, 154-159
- Simarmata, R., Sylvia, L. & Harmastini. 2007. Isolasi mikrobia Endofitik dari Tanaman Obat sambung Nyawa (*Gynura procumbens*) dan Analisis Potensinya sebagai Antimikrobia. *Berkala Penelitian Hayati*: 13 (85–90).
- Sjabana, D. 2001. *Manfaat Ganoderma lucidum*. Yayasan DHS, Jakarta.
- Strobel G, & Daisy, B. 2003. Bioprospecting for microbial endophytes and their natural products. *Microbiol and Moleculer Biology Review*. 67:491-502.
- Strobel, G., Daisy B. & Castillo, U. 2005. The Biological Promise of Microbial Endophyte and Their Natural Product. *Plant Pathology Journal* 4(2): 161-176
- Sudha, P., Zinjarde, S. S., Bhargava, S. Y., & Kumar, A. R. 2011. Potent a-amylase inhibitory activity of Indian Ayurvedic medicinal plant. *BMC Complementary and Alternative Medicine* 11:5,2
- Sudoyo, A., Setiyohadi, B. Alwi, I. K. M. & Setiati, S. 2006. *Buku Ajar Ilmu Penyakit Dalam*. Ed IV jilid II. Pusat Penelitian Departemen Ilmu Penyakit Dalam FKUI. Jakarta.
- Sugiwati, S., Setiasih, S. & Afifah, E. 2009. Antihyperglycemic activity of the *mahkota dewa* [*Phaleria macrocarpa* (scheff.) boerl.] leaf extracts as an alpha-glucosidase inhibitor. *Makara Kesehatan Journal*. 13 (2): 74-78
- Sun, L. H., Li, M. G., Wang, Y. S. & Zheng, Y. G. 2012. Significantly Enhanced Production of Acarbose in Fed-Batch Fermentation with the Additional of S-Adenosylmethionine. *Journal of Microbiology and Biotechnology*. 22(6), 826-831
- Suriawiria. 2001. *Budidaya Ling Zhi dan Maitake Jamur Berkhasiat Obat*. Penebar Swadaya, Jakarta.



- Suryahadi & W. G. Piliang. 1994. *Manfaat biofermentasi pakan dari limbah lignoselulosa oleh jamur tiram (Pleurotus ostreatus) ditinjau berdasarkan kajian metabolisme dan dinamika mikrobia rumen*. Laporan Penelitian. Pusat Antar Universitas. Institut Pertanian Bogor, Bogor.
- Suryanto, D., Andriani, S. & Nurtjahja, K. 2005. Keragaman genetik *Ganoderma* spp. Dari beberapa tempat di Sumatera Utara. *Jurnal Ilmiah KULTURA*. Vol 40(2): 70-76.
- Tan, R.X. & Zou, W.X. 2001. Endophytes: a Rich Source of Functional Metabolites. *Natural Product Reports*, 18: 448–459.
- Tjitrosoepomo, G. 1981. *Taksonomi tumbuhan (Spermatophta)*. UGM Press.
- Vares, T. and A. Hatakka. 1997. Lignin-degrading activity and ligninolytic enzymes of different white rot fungi: Effect of manganese and malonate. *Canadian Journal of Botany*. 75 (1): 61-71.
- Wehmeier, U. F. & Piepersberg, W. 2004. Biotechnology and molecular biology of the  $\alpha$ -glucosidase inhibitor acarbose. *J Appl Biotechnol* 63:613-625.
- Zhang, J. F., Zheng Y. G. & Shen Y. C. 2007. Inhibitory effect of valienamine on the enzymatic activity of honeybee (*Apis cerana* Fabr.) alpha glucosidase. *Pesticide Biochemistry and Physiology* 87: 73-77.