

DAFTAR PUSTAKA

- Aga, H., Shibuya, T., Sugimoto, T., Kurimoto, M., & Nakajima, S. 1994. Isolation and identification of antimicrobial compounds in Brazilian propolis. *Bioscience, Biotechnology, and Biochemistry*, 58(5), 945-946.
- Al-Abbadi, A. A., Ghabeish, I. H., Ateyyat, M. A., Hawari, A. D., & Araj, S. E. A. 2015. A Comparison between the Anti-microbial Activity of Native Propolis and the Anti-microbial Activity of Imported Ones against Different Health Microbes. *Jordan Journal of Biological Sciences*, 8(1).
- Al-Amoudi, W. 2015. Ameliorative Role and Antioxidant Effect of Propolis against Hepatotoxicity of Fenvalerate in Albino Rats. *Journal of Cytology & Histology*, 6(1), 1.
- Al-Jumaily, E. F., & RSAJM, A. 2014. Hepatoprotective activity of flavonoids purified and ethanolic extract from iraqi propolis against carbon tetrachloride-induced liver damage in male mice. *IOSR J Pharm*, 4(3), 22-7.
- Amoros, M., Sauvager, F., Girre, L., & Cormier, M. 1992. In vitro antiviral activity of propolis. *Apidologie*, 23(3), 231-240.
- Arvouet-Grand, A., Lejeune, B., Bastide, P., Pourrat, A., & Legret, P. 1993. Propolis extract. Part 6. Subacute toxicity and cutaneous primary irritation index. *Journal de Pharmacie de Belgique*, 48, 165-170.
- Bebe, F. N., & Panemangalore, M. 2003. Exposure to low doses of endosulfan and chlorpyrifos modifies endogenous antioxidants in tissues of rats. *Journal of Environmental Science and Health, Part B*, 38(3), 349-363.
- Bankova, V., Boudourova-Krasteva, G., Popov, S., Sforcin, J. M., & Cunha Funari, S. R. 1998. Seasonal variations of the chemical composition of Brazilian propolis. *Apidologie*, 361-367.
- Baron, D. N. 1990. *A Short Textbook Of Chemical Pathology* (4th Ed). Diterjemahkan oleh Andrianto, P. & Gunawan, J., Jakarta : EGC
- Bastos, E. M. A., Simone, M., Jorge, D. M., Soares, A. E. E., & Spivak, M. 2008. In vitro study of the antimicrobial activity of Brazilian propolis against *Paenibacillus* larvae. *Journal of invertebrate pathology*, 97(3), 273-281.
- Bergmeyer H. U. dan M. M. Grassl. 1983. *Method of Enzymatic Analysis Ed ke-2*. Weinheim: Verlag Chemie.
- Bhadauria, Monika., Satendra Kumar Nirala., Sangeeta Shukla. 2007. Hepatoprotective Efficacy of Propolis Extract: A Biochemical and

Histopathological Approach. *Iranian Journal Of Pharmacology & Therapeutics*,1735-2657/07/62-145-154.

- Bhadauria, M., Nirala, S. K., & Shukla, S. 2007. Duration-dependent hepatoprotective effects of propolis extract against carbon tetrachloride-induced acute liver damage in rats. *Advances in therapy*, 24(5), 1136-1145
- Cadenas, E., Packer, L. 2002. Expanded Caffeic Acid and Related Antioxidant Compound: Biochemical and Cellular Effects. *Handbook of Antioxidants*. Second edition. California : Marcel Dekker, Inc. p. 279-303.
- Constan, A. A., Sprankle, C. S., Peters, J. M., Kedderis, G. L., Everitt, J. I., Wong, B. A., & Butterworth, B. E. 1999. Metabolism of chloroform by cytochrome P450 2E1 is required for induction of toxicity in the liver, kidney, and nose of male mice. *Toxicology and applied pharmacology*, 160(2), 120-126.
- Corwin, E. J. 2000. *Handbook of pathophysiology*. Diterjemahkan oleh Brahm, U. P. ; Buku saku patofisiologi. Jakarta : EGC.
- Danneman, Peggy J., Mark A. Suckow., Cory F. Brayton. 2013. *The Laboratory Mouse, Second Edition*. London : CRC Press.
- De Castro, S. L. 2001. Propolis: biological and pharmacological activities. Therapeutic uses of this bee-product. *Annual Review of Biomedical Sciences*, 3, 49-83.
- Departemen Kesehatan RI. 1979. *Farmakope Edisi III*. Jakarta : Departemen Kesehatan RI.
- Departemen Kesehatan RI. 2008. *Riset Kesehatan Dasar*. Jakarta : Departemen Kesehatan RI.
- Departemen Kesehatan RI. 2013. *Riset Kesehatan Dasar*. Jakarta : Departemen Kesehatan RI.
- Department of Medical Biochemistry Practical manual. 2010. *Transaminase enzyme activities*. Budapest : Department of Medical Biochemistry Practical manual.
- Direktorat Bina Farmasi Komunitas Dan Klinik. 2007. *Pharmaceutical Care Untuk Penyakit Hati*. Jakarta : Direktorat Bina Farmasi Komunitas Dan Klinik.
- Federer, W. Y., 1963. *Experimental Design, Theory and Application*. New York: Mac. Millan.

- Flora, S. J. 2009. Structural, Chemical And Biological Aspects Of Antioxidants For Strategies Against Metal And Metalloid Exposure. *Oxidative medicine and cellular longevity*, 2(4), 191-206.
- Foye, William, O.1995. *Prinsip-prinsip kimia medisinal Jilid II. Diterjemahkan oleh: Lea dan Febiger*. Yogyakarta :Gajah Mada University Press.
- Ghosh, A., Sarkar, K., & Sil, P. C. 2006. Protective effect of a 43 kD protein from the leaves of the herb, *Cajanus indicus* L on chloroform induced hepatic-disorder. *Journal of biochemistry and molecular biology*, 39(2), 197.
- Gómez-Caravaca, A. M., Gómez-Romero, M., Arráez-Román, D., Segura-Carretero, A., & Fernández-Gutiérrez, A. 2006. Advances in the analysis of phenolic compounds in products derived from bees. *Journal of Pharmaceutical and Biomedical Analysis*, 41(4), 1220-1234.
- Harper, H.A. 1973. *Review of physiological chemistry* (15th Ed). California : Lange Medical Publication.
- Hu, F., Hepburn, H. R., Li, Y., Chen, M., Radloff, S. E., & Daya, S. 2005. Effects of ethanol and water extracts of propolis (bee glue) on acute inflammatory animal models. *Journal of Ethnopharmacology*, 100(3), 276-283.
- Huang, X. J., Choi, Y. K., Im, H. S., Yarimaga, O., Yoon, E., & Kim, H. S. 2006. Aspartate aminotransferase (AST/GOT) and alanine aminotransferase (ALT/GPT) detection techniques. *Sensors*, 6(7), 756-782.
- Izuta, H., Shimazawa, M., Tsuruma, K., Araki, Y., Mishima, S., & Hara, H. 2009. Bee products prevent VEGF-induced angiogenesis in human umbilical vein endothelial cells. *BMC complementary and alternative medicine*, 9(1), 45.
- Jasprica, I., Mornar, A., Debeljak, Ž., Smolčić-Bubalo, A., Medić-Šarić, M., Mayer, L., ... & Šverko, V. 2007. In vivo study of propolis supplementation effects on antioxidative status and red blood cells. *Journal of Ethnopharmacology*, 110(3), 548-554.
- Kang, Y. J., Ahn, J., & Hwang, Y. I. 2014. Acute liver injury in two workers exposed to chloroform in cleanrooms: a case report. *Annals of occupational and environmental medicine*, 26(1), 1.
- Kolankaya, D., Selmanoğlu, G., Sorkun, K., & Salih, B. 2002. Protective effects of Turkish propolis on alcohol-induced serum lipid changes and liver injury in male rats. *Food Chemistry*, 78(2), 213-217.

- Krell, R. 1996. Propolis, Value Added Products from Beekeeping. *FAO Agricultural Services Bulletin*, 124.
- Kumar, V., Abbas, A. K., Fausto, N., & Aster, J. C. 2014. *Robbins and Cotran pathologic basis of disease*. Elsevier Health Sciences.
- Li, Y., Chen, M., Xuan, H., & Hu, F. 2011. Effects of encapsulated propolis on blood glycemc control, lipid metabolism, and insulin resistance in type 2 diabetes mellitus rats. *Evidence-based complementary and alternative medicine*, 2012.
- Lind, R. C., Begay, C. K., & Gandolfi, A. J. 2000. Hepatoprotection by dimethyl sulfoxide: III. Role of inhibition of the bioactivation and covalent binding of chloroform. *Toxicology and applied pharmacology*, 166(2), 145-150.
- Lu, Frank C. 1995. *Toksikologi Dasar : Asas, Organ Sasaran, dan Penilaian Risiko*. Diterjemahkan oleh :Edi Nugroho. Jakarta : UI Press.
- Luper, S. 1998. A review of plants used in the treatment of liver disease: part 1. *Alternative medicine review: a journal of clinical therapeutic*, 3(6), 410-421.
- Mangkoewidjojo, & S Smith, J. B., 1988. *Pemeliharaan, Pembiakan Dan Penggunaan Hewan Percobaan Di Daerah Tropis*. Jakarta : UI press
- Marcucci, M. C. 1995. Propolis: chemical composition, biological properties and therapeutic activity. *Apidologie*, 26(2), 83-99.
- Márquez, N., Sancho, R., Macho, A., Calzado, M. A., Fiebich, B. L., & Muñoz, E. 2004. Caffeic acid phenethyl ester inhibits T-cell activation by targeting both nuclear factor of activated T-cells and NF- κ B transcription factors. *Journal of Pharmacology and Experimental Therapeutics*, 308(3), 993-1001.
- Mccance, Kathryn L., Sue E.Huether., Valentina L. Brashers., Neal S. Rote. 2010. *Pathophysiology The Biologic Basis For Disease in Adults and Children Six Edition*. USA: Mosby Elsevier.
- Mihai, C. M., Mărghitaș, L. A., Dezmirean, D. S., & Bărnuțiu, L. 2011. Correlation between polyphenolic profile and antioxidant activity of propolis from Transylvania. *Scientific Papers Animal Science and Biotechnologies*, 44(2), 100-103.
- Molina, M. F., Sanchez-Reus, I., Iglesias, I., & Benedi, J. 2003. Quercetin, a flavonoid antioxidant, prevents and protects against ethanol-induced oxidative stress in mouse liver. *Biological and Pharmaceutical Bulletin*, 26(10), 1398-1402.

- Mot, A. C., Damian, G., Sarbu, C., & Silaghi-Dumitrescu, R. 2009. Redox reactivity in propolis: Direct detection of free radicals in basic medium and interaction with hemoglobin. *Redox Report*, 14(6), 267-274.
- Nakajima, Y., Tsuruma, K., Shimazawa, M., Mishima, S., & Hara, H. 2009. Comparison of bee products based on assays of antioxidant capacities. *BMC Complementary and Alternative Medicine*, 9(1), 1.
- Nakamura, T., Ohta, Y., Ohashi, K., Ikeno, K., Watanabe, R., Tokunaga, K., & Harada, N. 2013. Protective Effect of Brazilian Propolis against Liver Damage with Cholestasis in Rats Treated with-Naphthylisothiocyanate. *Evidence-based complementary and alternative medicine*, 2013.
- Newairy, A. A., & Abdou, H. M. 2013. Effect of propolis consumption on hepatotoxicity and brain damage in male rats exposed to chlorpyrifos. *African Journal of Biotechnology*, 12(33), 5232.
- Njoku, D., Laster, M. J., Gong, D. H., Eger, E. I., Reed, G. F., & Martin, J. L. 1997. Biotransformation of halothane, enflurane, isoflurane, and desflurane to trifluoroacetylated liver proteins: association between protein acylation and hepatic injury. *Anesthesia & Analgesia*, 84(1), 173-178.
- Nugraha, A. S., Hadi, N. S., & Siwi, S. U. 2012. Efek hepatoprotektif ekstrak buah merah (*Pandanus conoideus* Lam.) pada hati mencit jantan galur swiss induksi dengan CCL4. *Jurnal Natur Indonesia*, 11(01).
- O'connor, N., Dargan, P. I., & Jones, A. L. 2003. Hepatocellular damage from non-steroidal anti-inflammatory drugs. *Qjm*, 96(11), 787-791.
- Pandit, A., Sachdeva, T., & Bafna, P. 2012. Drug-induced hepatotoxicity: a review. *J Appl Pharm Sci*, 2(5), 233-43.
- Price, S.A. & Wilson, L. M. 1995. *Pathophysiology Clinical Concepts Of Disease Processes*. Jakarta : Penerbit Buku Kedokteran EGC
- Ramachandran, R., & Kakar, S. 2009. Histological patterns in drug-induced liver disease. *Journal of Clinical Pathology*, 62(6), 481-492.
- Ramadan, A., Soliman, G., Mahmoud, S. S., Nofal, S. M., & Abdel-rahman, R. F. 2015. Hepatoprotective and hepatotherapeutic effects of propolis against d-galactosamine/lipopolysaccharide-induced liver damage in rats. *International Journal of Pharmacy and Pharmaceutical Sciences*, 7(2).
- Remirez, D., González, R., Rodriguez, S., Ancheta, O., Bracho, J. C., Rosado, A., & Ramos, M. E. 1997. Protective effects of Propolis extract on allyl alcohol-induced liver injury in mice. *Phytomedicine*, 4(4), 309-314.

- Righi, A. A., Alves, T. R., Negri, G., Marques, L. M., Breyer, H., & Salatino, A. 2011. Brazilian red propolis: unreported substances, antioxidant and antimicrobial activities. *Journal of the Science of Food and Agriculture*, 91(13), 2363-2370.
- Robbins, S. L., Cotran, R. S., dan Kumar, V. 2007. *Jejas, Adaptasi, dan Kematian Sel. Dalam: Buku Ajar Patologi I, vol 1*. EGC. Jakarta. 9, 26-27 hal.
- Rusmiati & Lestari. 2004. Struktur Histologis Organ Hepar Ren Mencit (*Mus musculus* L) Jantan setelah Perlakuan dengan Ekstrak Kayu Secang (*Caesalpinia sappan* L). *Bioscientiae*.(1): 23-30.
- Russo, A., Longo, R., & Vanella, A. 2002. Antioxidant activity of propolis: role of caffeic acid phenethyl ester and galangin. *Fitoterapia*, 73, S21-S29.
- Sarto, M., Saragih, H. 2009. Penentuan Toksisitas Sub kronik Trombo Propolis Pada Mencit (*Mus Musculus* L) Balb-C Jantan. *Laboratorium Penelitian dan Pengujian Terpadu*. Yogyakarta: Fakultas Biologi Universitas Gajah Mada.
- Setiabudy, R. 1999. Hepatitis Karena Obat. *Bagian Farmakologi Fakultas Kedokteran Universitas Indonesia, Jakarta*.
- Sharma, A., Chakraborti, K. K., & Handa, S. S. 1991. Antihepatotoxic activity of some Indian herbal formulations as compared to silymarin. *Fitoterapia*, 62, 229-235.
- Sipes, I. G., & Brown Jr, B. R. 1976. An animal model of hepatotoxicity associated with halothane anesthesia. *Anesthesiology*, 45(6), 622-628.
- Siregar, Hotnida C.H., Asnath M. Fuah., Yuke Octavianty. 2011. *Propolis : Madu Multikhasiat*. Bogor: Penebar Swadaya.
- Smith, J. H., Maita, K., Sleight, S. D., & Hook, J. B. 1983. Mechanism of chloroform nephrotoxicity: I. Time course of chloroform toxicity in male and female mice. *Toxicology and applied pharmacology*, 70(3), 467-479.
- Soemohardjo, Soewignjo. 1983. *Tes Faal hati : Dasar-dasar teoritik dan pemakaian dalam klinik*. Bandung : Penerbit Alumni.
- Subramoniam, A., & Pushpangadan, P. 1999. Development of phytomedicines for liver disease. *Indian journal of Pharmacology*, 31(3), 166.
- Sudiono. 2003. *Ilmu Patologi*. Jakarta: Penerbit buku kedokteran

Sweetman, Sean C. 2009. *Martindale : The Complete Drug Reference*. London: Pharmaceutical Press.

Tarlá, M. R., Ramalho, F. S., Ramalho, L. N. Z., Castro e Silva, T., Brandão, D. F., Ferreira, J., & Zucoloto, S. 2006. A molecular view of liver regeneration. *Acta Cirurgica Brasileira*, 21, 58-62.

Viuda-Martos, M., Ruiz-Navajas, Y., Fernández-López, J., & Pérez-Álvarez, J. A. 2008. Functional properties of honey, propolis, and royal jelly. *Journal of food science*, 73(9), R117-R124.

Won Seo, K., Park, M., Jung Song, Y., Kim, S. J., & Ro Yoon, K. 2003. The protective effects of Propolis on hepatic injury and its mechanism. *Phytotherapy Research*, 17(3), 250-253.

Yager, James, D. 2008. *Hepato and Renal Toxicology*. London : John Hopskin University Press.

Zhu, W., Chen, M., Shou, Q., Li, Y., & Hu, F. 2011. Biological activities of Chinese propolis and Brazilian propolis on streptozotocin-induced type 1 diabetes mellitus in rats. *Evidence-Based Complementary and Alternative Medicine*.

