

DAFTAR PUSTAKA

- American Diabetes Association, 2013. Diagnosis and classification of diabetes mellitus. *Diabetes care*. 36:S67-S74.
- Ammerman, N.C., Beier-Sexton, M., dan Azad, A.F, 2008. Growth and Maintenance of Vero Cell Lines. *Curr. Protoc. Microbiol.* APPENDIX:Appendix-4E.
- Benhusein, G.M., Mutch, E., Aburawi, S., dan Williams, F.M, 2010. Genotoxic Effect Induced by Hydrogen Peroxide in Human Hepatoma Cells using Comet Assay. *Libyan J. Med.* 5:4637-42
- Bennett, W.L., Maruthur, N.M., Singh, S., Segal, J.B., Wilson, L.M., Chatterjee, R., *et al*, 2011. Comparative effectiveness and safety of medications for type 2 diabetes: an update including new drugs and 2-drug combinations. *Ann. Intern. Med.* 154:602-13.
- Berile, F.A, 2008. *Principles of Toxicology Testing*. New York: CRC Press.
- Boelsterli, U.A, 2007. *Mechanistic Toxicology: The Molecular Basis of How Chemical Disrupts Biological Targets*. New York: CRC Press.
- BPPT, 2005. Tanaman Obat Indonesia: Mahoni. *Sentra Informasi IPTEK* (accessed November 24, 2014, from IPTEKnet databases.
- CDC, 2014. *National Diabetes Statistics Report*. United States: CDC.
- Chan, K.C., Tang, T.S., and Toh, H.T, 1976. Isolation of swietenolide diacetate from *Swietenia macrophylla*. *Phytochemistry*. 15:429–30.
- Chen, Q., Tang, S., Jin, X., Zou, J., Chen K., Zhang, T., *et al.*, 2009. Investigation of genotoxicity of quinocetone, carbadox, and olaquinox in vitro using Vero cells. *Food Chem. Toxicol.* 47:328-34
- Cheng, N., Ren, N., Gao, H., Lei, X., Zheng, J., Cao, W, 2013. Antioxidant and hepatoprotective effects of *Schisandra chinensis* pollen extract on CCl₄-induced acute liver damage in mice. *Food Chem. Toxicol.* 55:234-40.
- Collins, A.R, 2004. The comet assay for DNA damage and repair. *Mol. Biotechnol.* 26(3):249-61.
- Devaraj, S., Ismail, S., Ramanathan, S., Marimuthu, S. Mun, Y, 2010. Evaluation of the hepatoprotective activity of standardized ethanolic extract of *Curcuma xanthorrhiza* Roxb. *J. Med. Plants. Res.* 4(23):2512-17.
- Dipiro, J.T., Talbert, R.L., Yee, G.C., Matzke, G. R., Wells, B.G., and Posey, L.M, 2002. *Pharmacotherapy A Pathophysiologic Approach*. 7th Ed. United States: The McGraw Hill Companies.
- Donfack, H.J., Fotso, G.W., Ngameni, B., Nguemou, F.T., Tchoukoua, A., Ambassa P., *et al.*, 2010. *In vitro* hepatoprotective and antioxidant activities

- of the crude extract and isolated compounds from *Irvingia gabonensis*. *Asian. J. Trad. Med.* 5(3):79-88.
- Geran, R.I., Greenberg, N.H., McDonald, M.M., Schumacher, A.M., Abbot, B.J., 1972. Protocols for screening chemical agents and natural product against animal tumour and other biological systems. *Cancer Chemother. Rep.* (3): 17-9.
- Gnanasekaran, D., Umamaheswara, R.C., Jaiprakash, B., Narayanan, N., Hannah, E., Ravi, K.Y., 2012. In vitro hepatoprotective activity of a selected Siddha medicinal plant *sida cordata* using Chang liver cells. *Am. J. Pharmatech. Res.* 2(1):466-73.
- Guillouzo, A., 1998. Liver cell models in *in vitro* toxicology. *Environ. Health Perspect.* 106(2):511-32.
- Hartmann A., Schumacher, M., Plappert-Helbig, U., Lowe, P., Suter, W., Mueller, L., 2004. Use of the alkaline *in vivo* comet assay for mechanistic genotoxicity investigation. *Mutagenesis.* 19: 51.
- Hashim, M.A., Yam, M.F., Hor, S.Y., Lim., C.P., Asmawi, M.Z., Sadikun, A., 2013. Anti-hyperglycaemic activity of *Swietenia macrophylla* King (Meliaceae) seed extracts in normoglycaemic rats undergoing glucose tolerance tests. *Chinese Medicine.* 8:1-8.
- Hong, N.N., Thuy, H.N., 2012. Hepatoprotective effects of ethyl acetate extracts of *Polygonum tomentosum* Willd and *Orthosiphon aristatus* (Blume) Miq against carbon tetrachloride induced chronic toxicity. *J. Biol.* 34 (3SE): 313-8.
- Kalaivanan, K., dan Pugalendi, K.V., 2011. Antihyperglycemic effect of the alcoholic seed extract of *Swietenia macrophylla* on streptozotocin-diabetic rats. *Phcog. Res.* 3:67-71.
- Klaasen, C.D., 2008. *Casarett & Doull's Toxicology, The Basic Sciences of Poison.* 7th ed. United States: The McGraw Hill Companies.
- Kumar, A., Dora, J., Singh, A., Tripathi, R., 2012. A review on king of bitter (Kalmegh). *Int. J. Res. Pharm. Chem.* 2(1):116-24.
- Lu, F.C., 1995. *Toksikologi Dasar: Asas, Organ Sasaran dan Penilaian Risiko.* Edisi kedua. Jakarta: UI Press.
- Meerlo, V.J., Kaspers, Gertjan J.L., Cloos, Jacqueline, 2011. Cell Sensitivity Assay: The MTT Assay. *Methods. Mol. Biol.* (20): 731
- Mursiti, S., 2004. Identifikasi senyawa alkaloid bebas minyak (*Swietenia macrophylla* King) dan efek biji mahoni terhadap penurunan kadar glukosa darah tikus (*Rattus norvegicus*). *Tesis.* Yogyakarta: Universitas Gadjah Mada.
- Nugraha, A., 2012. Docking molekuler dan aktivitas antihiperlikemik senyawa aktif hasil isolasi dari ekstrak metanol biji mahoni (*Swietenia macrophylla*

King) pada tikus diabetes setelah induksi streptozotosin. *Tesis*. Yogyakarta: Universitas Gadjah Mada.

- OpenComet [computer program]. Version 1.3. GNU General Public License version 3.0. Available: www.opencomet.org; 2013.
- Perkeni, 2011. *Consensus pengelolaan dan pencegahan diabetes mellitus tipe-2 di Indonesia*. Jakarta: Penerbit Perkeni.
- Radhamani, S., Sunilson, J.A.J., Gopinath, R., Das, A., Nilugal, K., 2009. Hypoglycemic activity of endocarp of *Swietenia macrophylla* King. extracts in glucose loaded rats. *J. Pharm. Res.* 2(7):1203-05.
- Saleem, M.T.S., Chetty, S.M., Ramkanth, S., Rajan, V.S.T., Kumar, K.M., Gauthaman, K, 2010. Hepatoprotective herbs—a review. *Int. J. Res. Pharm. Sci.* 1(1):1–5.
- Shulman, M. dan Nahmias, Y, 2013. Long-term culture and coculture of primary rat and human hepatocytes. *Methods. Mol. Biol.* 945:287-302.
- Simon, H.U., Haj-Yehia, A., dan Levi-Schaffer, F, 2000. Role of Reactive Oxygen Species (ROS) in Apoptosis Induction. *Apoptosis.* 5:415-8.
- Speit, G., dan Hartmann, A., 1999. The Comet Assay (Single-cell gel test). *Methods Mol. Biol.* 291:85-95.
- Suchy, P., Strakova, E., Kummer, V., Herzig, I., Pisarikova, V., Blechova, R., Maskova, J, 2008. Hepatoprotective effects of milk thistle (*Silybum marianum*) seed cakes during the chicken broiler fattening. *Acta. Vet. Br.* 77:31-8.
- Wild, S., Roglic, G., Green A., Sicree R., King H., 2004. Global Prevalence of Diabetes: Estimates for The Year 2000 and projection for 2030. *Diabetes Care.* 27(5):1047-53.
- Zhang, Q.H., Wu, C.F., Duan, L., dan Yang, J.Y., 2008. Protective effects of total saponins from stem and leaf of *Panax ginseng* against cyclophosphamide-induced genotoxicity and apoptosis in mouse bone marrow cells and peripheral lymphocyte cells. *Food and Chem. Tox.* 46:293-302