

## DAFTAR PUSTAKA

- American Cancer Society, 2010, *Chemotherapy Principles: An In-depth Discussion of the Techniques and Its Role in Cancer Treatment*, <http://www.www.cancer.org/chemotherapy-principles-pdf>, diakses pada tanggal 3 Maret 2015.
- Barker, S., Weinfeld, M., Murray, D., 2005, DNA-protein crosslinks: Their induction, repair, and biological consequences. *Mutat. Res.*, **589**: 111–135.
- Bertz, R. J., and Granneman, G. R., 1997, Use of in vitro and in vivo data to estimate the likelihood of metabolic pharmacokinetic interactions, *Clin Pharmacokinet*, **32**: 210-258.
- BPOM RI, 2008, *Carica Papaya L.*, <http://perpustakaanpom.go.id/ebook/Taksonomi%2520Koleksi%2520Tanaman%2520Obat%2520Tanaman%2520Obat%2520%2520Citeureup/Carica%2520papayaL.pdf>, diakses pada tanggal 3 Maret 2015.
- Bryce, S.M., Shi, J., Nicolette, J., Diehl, M., Sonders, P., Avlasevich, S., *et al.*, 2010, High content flow cytometric micronucleus scoring method is applicable to attachment cell lines, *Environ Mol Mutagen*, **51**: 260–266.
- Canini A., Daniela A., Giuseppe D., and Pietro T., 2007, Gas chromatography mass spectrometry analysis of phenolic compounds from *Carica papaya* L. leaf. *Journal of Food Component and Analysis*, **20** (7):584–590.
- Cavalieri, E., Saeed, M., Zahid, M., Cassada, D., Snow, D., Miljkovic, M., *et al.*, 2012, Mechanism of DNA depurination by carcinogens in relation to cancer initiation. *IUBMB Life*, **64**: 169–179.
- Chopra, M., Fitzsimons, P.E., Strain, J.J., Thurnham, D.I., Howard, A.N., 2000, Nonalcoholic red wine extract and quercetin inhibit LDL oxidation without affecting plasma antioxidant vitamin and carotenoid concentrations. *Clinical Chemistry*, **46**: 1162–1170.
- Connelly, J.C., and Leach, D.R., 2004, Repair of DNA covalently linked to protein. *Mol. Cell*, **13**: 307–316.
- Cooke, M.S., Evans, M.D., Dizdaroglu, M., Lunec, J., 2003, Oxidative DNA damage: Mechanisms, mutation, and disease. *FASEB J.*, **17**: 1195–1214.
- Criswell, K.A., Khrisna, G., Zielinski, D., Urda, G.A., Theisis, J.C., *et al.*, 1998, Use of acridine orange in flow cytometric assessment of micronuclei induction. *Mut Res*, **414** (1-3): 63-75.
- De Groot, H., 1994, Reactive oxygen species in tissue injury, *Hepatology*, **41**:328-32.

- Dizdaroglu, M., and Jaruga, P., 2012, Mechanisms of free radical-induced damage to DNA, *Free Radic. Res.*, **46**: 382–419.
- Drablos, F., Feyzi, E., Aas, P.A., Vaagbo, C.B., Kavli, B., Bratlie, M.S., *et al.*, 2004, Alkylation damage in DNA and RNA—Repair mechanisms and medical significance. *DNA Repair (Amst.)*, **3**: 1389–1407.
- Fenech, M., Kirsch-Volders, M., Natarajan, A.T., Surralles, J., Crott, J.W., Parry, J. *et al.*, 2011, Molecular mechanisms of micronucleus, nucleoplasmic bridge and nuclear bud formation in mammalian and human cells. *Mutagenesis*, **26**: 125–132.
- Guengerich, F.P., 1995, Human cytochrome P-450 enzymes. In: Ortiz de Montellano PR (ed) Cytochrome P-450, *Plenum, New York*, **2**: 473–535.
- Guengrich, F.P., 1999, Cytochrome P-450: regulatio and rol in drug metabolisme. *Annu Rev Phrmacol Toxicol*, **39**:1-17.
- Hamadou, A. H., Xu, Y., Jiang, Q., Xia, W., Siddeeg, A., 2014, Evaluation of antioxidant efficacy of ethanolic and methanolic extracts from peanut hulls in silver carp oil during accelerated oxidation, *International Journal of Nutrition and Food Sciences*, **3**(2): 104-110
- Harwood, M., Danielewiska-Nikiel, B., Borzelleca, J. F., Flamm, G. W., Willian, G. M., Lines, T.C., 2007, A critical review of the data related to the safety of *quercetin* and Black of evidence of in vivo toxicity, including lack of genotoxic/carcinogenic properties, *Food and Chemical Toxicology*, **45**: 2179–2205.
- Helleday, T., Petermann, E., Lundin, C., Hodgson, B., Sharma, R.A., 2008, DNA repair pathways as targets for cancer therapy. *Nat. Rev. Cancer*, **8**: 193–204.
- Hoeijmakers, J.H., 2001, Genome maintenance mechanisms for preventing cancer, *Nature*, **411**: 366–374.
- Holland, J.F., Kufe, D.W., Weichselbaum, R.R., Pollock, R.E., Frei, E., and Gansler, T.S., 2003, *Cancer Medicine* 6th Ed., BC Decker: Hamilton, ON, Canada.
- Huang, S. Y., and Zhou, X., 2007, Ensemble Docking of Multiple Protein Structures: Considering Protien Structural Variations in Molecular Docking, *Proteins*, **66**: 399-421.
- IARC, 1981, Some antineoplastic and immunosuppressive agents, *IARC Monogr Eval Carcinog Risk Chem Hum*, **26**: 1–411. PMID:6944253.
- Ingelman-Sudberg, M., 2001, Pharmacogenetics: an opportunity for a safer and more efficient pharmacotherapy, *J Intern Med*, **250**: 186-200.

- Ingelman-Sudberg, M., 2004, Human drug metabolisirs cytochrome P450 enzymes: properties and polymorfism, *Naunyn-Schmiedeberg's Arch Pharmacol*, **369**: 89-104.
- Jackson, S.P., and Bartek, J., 2009, The DNA-damage response in human biology and disease, *Nature*, **461**: 1071–1078.
- Jamura, M.C., Grodzkia, A.C.G., Morenob, A.N., De Mellob, L.C., Pastora, M.V.D., Berensteinc, E.H., *et al.*, 2001, Identification and isolation of rat bone marrow-derived mast cells using the mast cell-specific monoclonal antibody, *J Histochem Cytochem*, **49**: 219-28.
- Kastan, M.B., and Bartek, 2004, J. Cell-cycle checkpoints and cancer, *Nature*, **432**: 316–323.
- Kondo, N., Takahashi, A., Ono, K., Ohnishi, T., 2010, DNA damage induced by alkylating agents and repair pathways. *J. Nucleic Acids*, **543531**.
- Koul, A., Gangar S.C., and Sandhir V., 2005, Pitfalls in journey from traditional to modern medicine, *Nat Prod Rad*, **4**: 6-13.
- Krishna, G., and Hayashi, M., 2000, In vivo rodent micronucleus assay: protocol, conduct and data interpretation, *Mut Res*, **455**: 155-166.
- Kuh-nau, J., 1976. The flavonoids: A class of semi-essential Food components: Their role in human nutrition. *World Rev. Nutr. Diet.*, **24**: 117–191.
- Lakhanpal, P. and Rai, D.K., 2007, Quercetin: A Versatile Flavonoid, *Internet Journal of Medical Update*, **Vol 2**: No 2.
- Mac Gregor, M.E., Bishop, S.D., Dertinger, J., Mc Namee, M.M., Moore, A. Aidoo, S., *et al.*, 2004, A flow cytometric assay that permits integration of chromosomal damage assessment with routine toxicity testing, *Annual Meeting, Society of Toxicology, Baltimore, Abstract*.
- Majer, B. J., Laky, B., Knasmuller, S. and Kassie, F., 2001, Use of the micronucleus assay with exfoliated epithelial cells as a biomarker for monitoring individuals at elevated risk of genetic damage and in chemoprevention trials, *Mut Res*, **489** (2–3):147–172.
- Maisarah, A.M., Amira, B.N., Asmah, R. and Fauziah, O., 2013, Antioxidant Analysis of Different Parts of *Carica Papaya*, *Faculty of Medicine and Health Sciences University Putra Malaysia*.
- Morand, C., Crespy, V., Manach, C., Besson, C., and Demigne C., *et al.*, 1998, Plasma metabolites of quercetin and their antioxidant properties. *Am. J. Physiol. Regul. Integr. Comp. Physiol.*, **275**: R212-R219.

- Nelson, D.R., Koymans, L., Kamataki, T., Stegeman, J.J., Feyereisen, R. and Waxman, D.J, 1996, P450 superfamily: update on net sequences, Gene mapping, accession numbers and nomenklatur, *Pharmacogenetics*, **6**:1-42.
- Neri, M., Fucic, A., Knudsen, L. E., Lando, C., Merlo, F. and Bonassi, S, 2003, Micronuclei frequency in children exposed to environmental mutagens: A review, *Mut Res*, **544**(2-3): 243-254.
- Nijveldt, R.J., Van-Nood, E., Van-Hoorn, D. E. C., Boelens, P. G., Van-Norren, Klaske, and Van-Leeuwen, P. A. M., 2001, Flavonoids: a review of probable mechanisms of Action and potential applications, *Am J Clin Nutr*, **74**: 418-25.
- OECD, 1997, *OECD 474 Guideline for The Testing of Chemicals: Mammalian In Vivo Micronucleus Test*, <http://www.oecd.org/chemicalsafety/risk-assessment/1948442.pdf>, diakses pada tanggal 5 Maret 2015.
- Pascoe, S., and Gatehouse, D., 1986, The use of a simple haematoxylin and eosin staining procedure to demonstrate micronuclei within rodent bone marrow, *Mut Res*, **164** (4): 237-43.
- Phillips, K.A., Veenstra, D. L., Oren E., Lee, J.K., Sadee, W., 2001, Potential rol of pharmacogenomics in reducing adverse drug reactions: a systematic review, *JAMA*, **286**: 2270-2279.
- Pitchard, J.D., 2007, *Methanol: Toxicological Review*, [http://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/341387hpa\\_methanol\\_toxicological\\_overview\\_v2.pdf](http://www.gov.uk/government/uploads/system/uploads/attachment_data/file/341387hpa_methanol_toxicological_overview_v2.pdf), diakses pada tanggal 22 Maret 2015.
- Purnomo, H., 2011, *Kimia Komputasi: Molecular Docking PLANTS*, Pustaka Pelajar: Yogyakarta.
- Ramesh, K.G., Parloop, A.B., Mahesh, D.B., 2009, *Elements of Clinical Pharmacy, 4<sup>th</sup> Edition*, shah prakshan: page no 109-114.
- Rohilla, A. and Yadav, S., 2013, Adverse Drug Reactions: An Overview, *International Journal of Pharmacological Research*, ISSN: 2277-3312.
- Ruddon, R.W., 2007, *Cancer Biology*, 4<sup>th</sup> Ed., Oxford University Press Inc.: New York.
- Schmid, 1975, The micronucleus test, *Mut Res.*, **31**: 9-15.
- Seigler, D.S., Pauli, G.F., Nahrstedt, A., Leen, R., 2002. Cyanogenic allosides and glucosides from *Passiflora edulis* and *Carica papaya*, *Phytochemistry*, **60**: 873-882.

- Shoukamy, M.I., Nakano, T., Ohshima, M., Hirayama, R., Uzawa, A., Furusawa, Y., *et al.*, 2012, Detection of DNA-protein crosslinks (DPCs) by novel direct fluorescence labeling methods: Distinct stabilities of aldehyde and radiation-induced DPCs. *Nucleic Acids Res.*, **40**: e143.
- Shimada, T., Yamazaki, H., Mimura, M., Inui, Y., Guengerich, F.P., 1994, Interindividual variations in human liver cytochrome P-450 enzymes involved in the oxidation of drugs, carcinogens and toxic chemicals: studies with liver microsomes of 30 Japanese and 30 Caucasians. *J Pharmacol Exp Ther*, **270**: 414–423.
- Shukla, S., Nguyen, A., Thorn, C., Flockhart, D., McLeod, H., and Wainer, I., 2001, *Model human liver cell showing genes involved in the metabolisme of cyclophosphamide: Cyclophosphamide Pathway*, <https://www.pharmgkb.org/pathway/PA2035>, diakses pada tanggal 18 Maret 2015.
- Srinivas, H.R., Talkad, M.S., Ishwarya, M.S., Samreen, S., Sharvani and Umesh, H.R., 2013, Effect Of *Quercetin* on Micronucleus Study in Mice. *Int. J. LifeSc. Bt & Pharm. Res.*, **2**(3): 257-263.
- Sugiyanto, R., 2014, Menakar Potensi Antigentotoksik Kayu Secang (*Caesalpinia Sappan* L.) dalam Prevensi Kerusakan DNA melalui MNPCE Assay *In Vivo*, Skripsi, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Swift, L.H., and Golsteyn, R.M., 2014, Review: Genotoxic Anti-Cancer Agents and Their Relationship to DNA Damage, Mitosis, and Checkpoint Adaptation in Proliferating Cancer Cells, *Int. J. Mol. Sci.*, **15**: 3403-3431; doi:10.3390/ijms15033403.
- Tripathi, D.N. and Jena, G.B., 2009, Intervention of astaxanthin against cyclophosphamide-induced oxidative stress and DNA damage: a study in mice. *Chem. Biol. Interact.*, **180**: 398–406.
- Velmurugan, M., Selvanayagam, Cengiz E.I.E. and Unlu, E., 2007, Histopathology of lambda-cyhalothrin on tissues (gill, kidney, liver and intestine) of *Cirrhinus mrigala*, *Environ. Toxicol. Pharmacol*, **24**: 286–291.
- Venkatesh, P., Shantala, B., Jagetia, G.C., Rao, K.K., and Baliga, M.S., 2007, Modulation of Doxorubicin-Induced Genotoxicity by *Aegle marmelos* in Mouse Bone Marrow: A Micronucleus Study, *Integr Cancer Ther*, **6**: 42-53.
- Williams, C. A., Atherly, L. E., Hirsch, J. D., 2007, Antioxidant and iur Horse, Rutgers, The State University of New Jersey.
- Zhou B. B., and Elledge S. J, 2000, The DNA damage response: putting checkpoints in perspective, *Nature*, **408**(6811): 433–439.