

DAFTAR PUSTAKA

- Aalto Scientific, 2011. Alanine Transaminase (ALT/GPT/SGPT). [online]. <https://www.aaltoscientific.com/product/alanine-aminotransferase-sgpt-5/> [diakses pada tanggal 25 April 2019].
- Aalto Scientific, 2011. Aspartate Transaminase (AST/GOT/SGOT). [online]. <https://www.aaltoscientific.com/product/aspartate-aminotransferase-sgot/> [diakses pada tanggal 25 April 2019].
- Adnan, S., 2001. Pengaruh Pajanan Timbal Terhadap Kesehatan dan Kualitas Semen Pekerja Laki-laki. *Majalah Kedokteran Indonesia*, **51(5)**, p. 168-74.
- Aggarwal, A. and Prabakaran, S. A., 2005. Oxidative Stress and Antioxidants in Male Infertility: A Difficult Balance. *Iranian Journal of Reproductive Medicine*, **1(3)**, p. 1-8.
- Agustina, T., 2010. Kontaminasi Logam Berat Pada Makanan dan Dampaknya Pada Kesehatan. *Teknubaga*, **2(2)**, p. 53-65.
- Ak, T. and Gulcin, I., 2008. Antioxidant and Radical Scavenging Properties of Curcumin. *Chemico-Biological Interactions*, **174**, p. 27-37.
- Aliffah, Y. M., 2019. Pengaruh Curcumin Sebagai Antioksidan terhadap Histopatologi Hepar Mencit (*Mus musculus*) yang Dipapar Timbal (Pb). *Skripsi*. Universitas Airlangga, Surabaya.
- Alwaleedi, S. A., 2015. Hematobiochemical changes induced by lead intoxication in male and female albino mice. *National Journal of Physiology, Pharmacy and Pharmacology*, **6(1)**, p. 46-51.
- Amarowicz, R., Naczk, M., and Shahidi, F., 2000. Antioxidant activity of crude tannis of canola and Rapeseed Hulls, *Journal of the American Oil Chemist's Society*, **77**, p. 957-961.
- Anies, 2005. *Penyakit akibat kerja*. Jakarta: Alex Media Komputindo.
- Assi, M. A., Hezmee, M. N. M., Haron, A. W., Sabri, M. Y. M., and Rajion, M. A., 2016. The Detrimental Effects of Lead on Human and Animal Health. *Veterinary World*, **9(6)**, p. 660-671.
- Atira, C., 2019. Uji Aktivitas Antioksidan Curcumin Terhadap Kadar MDA dan SOD pada Mencit (*Mus musculus*) yang Dipapar Timbal Asetat. *Skripsi*. Universitas Airlangga, Surabaya.
- Atmosukarto, K. dan Mitri, R., 2003. Mencegah penyakit degeneratif dengan makanan. *Cermin Dunia Kedokteran*, **140**, p. 41-48.
- Barzegar, A. and Movahedi, A. A. M., 2011. Intracellular ROS Protection Efficiency and Free Radical-Scavenging Activity of Curcumin. *Plos One*, **6(10)**, p. 1-7.
- Bong, H. S., Hartley, T. R., Gwendolyn, A. P., Thomas, L. W., Michael, F. W., and William, R. L., 2000. Hypertension Risk Status and Effect of Caffeine on Blood Pressure. *Hypertension*, **36**, p. 137-141.
- Brat, P., Tourniaire, and Carlin, M. J. A., 2008. *Stability and Analysis of Phenolic Pigments*. In Socaciuc, C. (eds) *Food Colorant Chemical and Functional Properties*. CRC Press: Boca ration.

- Brunton, L. K., Parker, D., Blumenthal, L., and Buxton, 2007. *Goodman and Gilman's Manual of Pharmacology and Theraupetics*. New York: McGraw Hill Professional.
- Burtis, C. A., Ashwood, E. R., and Bruns, D. E., 2006. *Lipids, Lipoproteins, Apolipoproteins, and Other Cardiovascular Risk Factor*. In: Tietz Textbook of Clinical Chemistry and Molecular Diagnostic, (1). St. Louis, Missouri: Elsevier, p. 903-968.
- Centers for Disease Control and Prevention (CDC), 2012. *Low Level Lead Exposure Harms Children. A Renewed Call for Primary Prevention*. Atlanta, GA: US Department of Health and Human Services.
- Chattopadhyay I. Biswas, K., Bandyopadhyay, and Banerjee, R. K., 2004. Turmeric and Curcumin; Biological Actions and Medicinal Applications. *Current Science*, **87(1)**, p. 44-53.
- Damayantie, H. U., 2013. Sonogram Lambung, Duodenum, dan Pankreas Normal Pada Kucing Kampung (*Felis catus*). *Skripsi*. Institut Pertanian Bogor, Bogor.
- Devlin, M. T., 2002. *Bioenergetics and Oxidative Metabolism In: Biochemistry with Clinical Correlations*. 5th Ed. Canada: Wiley-liss.
- Direktorat Jenderal Pengawasan Obat dan Makanan, 1989. *Surat Keputusan Dirjen POM No. 03725/B/SK/VII/89 tentang Batas Maksimum Cemaran Logam dalam Makanan*. Jakarta.
- Dominguez, C. L., Gomez, and Zumalacarregui, J., 2002. Prevalence of *Salmonella* and *Campylobacter* in Retail Outlet in Spain. *International Journal Food Microbiology*, **72(1)**, p. 165-168.
- Ercal, N., Gurer, H., and Aykin-Burns, N., 2001. Toxic Metals and Oxidative Stress, part 1. Mechanisms Involved in Metal Induced Oxidative Damage. *Current Topics in Medicinal Chemistry*, **1**, p. 529-539.
- Fajria, A., 2009. Sintesis Senyawa Analog Kurkumin 3,5-Bis-(4'hidroksi-3'-Metoksi Benzilidin)-Piperidin-4-On (Monohidrat Hidroklorida) dengan Katalis HCl. *Skripsi*. Universitas Muhammadiyah Surakarta, Surakarta.
- Gajawat, S., Sancheti, G., and Goyal, P.K., 2006. Protection Against Lead-Induced Hepatic Lesions in Swiss Albino Mice By Ascorbic Acid. *Pharmacology online*, **1**, p. 140-149.
- Gaze, D. C., 2007. Peran Biomarker Jantung yang Ada dan Baru untuk Cardio Protection. *Opini Lancar Investigational*, **8(9)**, p. 711.
- Giannini, E. G., Testa, R., and Savarino, V., 2005. Liver Enzyme Alteration: A Guide for Clinicians. *Canadian Medical Association Journal*, **172(3)**, p. 367-379.
- Gill, M. I., Tomas, F. A. B., Pierce, B. H., and Kader, A. A., 2002. Antioxidant Capacities, Phenolic Compounds, Carotenoids, and Vitamin C Contents of Nectarine, Peach, and Plum Cultivars From California, *Journal of Agricultural and Food Chemistry*, **50(17)**, p. 4976-82.
- Haouas, Z., Sallem, A., Zidi, I., Hichri, H., Mzali, I., and Mehdi, M., 2014. Hepatotoxic Effects of Lead Acetate in Rats: Histopathological and Cytotoxic Studies. *Journal of Cytology & Histology*, **5(5)**, p. 1-6.

- Jun, M. H., Fong, X., Wan, C. S., and Yang, C. T., 2001. Comparison of Antioxidant Activities of Isoflavones from Kudzu Root (*Pueraria labata* O.). *Journal of Food Science*, **6(8)**, p. 2117-2122.
- Kasperekzyk, A., Birkner, E. S., Kasperekzyk, J., Zalesjska-Fiolka, K., Zwirska-Korczala, B., Stawiarska-Pieta, and Grucka-Mamczar, E., 2005. *Metabolic and Antioxidative Changes in Liver Steatosis Induced by High-Fat, Low Carbohydrate Diet in Rabbits*. Polandia: Department of Biochemistry, Medical University of Silesia.
- Kim, J. H., Park, S. H., Nam, S. W., Kwon, H. J., Kim, B. W., Kim, W. J., and Choi, Y. H., 2011. Curcumin Stimulates Proliferation, Stemness Acting Signals and Migration Of 3T3-L1 Preadipocytes. *International Journal of Molecular Medicine*, **28(3)**, p. 429–35.
- Kumar, B., Singh, V., Shankar, R., Kumar, K., and Rawal, R. K., 2015. Synthetic and Medicinal Prospective of Structurally Modified Curcumins. *Current Topics in Medicinal Chemistry*, **16(24)**, p. 4.
- Kusnoputrantri, H., 2006. *Toksikologi Lingkungan, Logam Toksik, dan Berbahaya*. Jakarta: FKM-UI Press dan Pusat Penelitian Sumber Daya Manusia dan Lingkungan.
- Kusumawati, D., 2004. *Bersahabat dengan Hewan Coba*. Yogyakarta: Gadjah Mada University Press.
- Laila, N. N. dan Shofwati, I., 2013. Kadar Timbal Darah dan Keluhan Kesehatan pada Operator Wanita SPBU. *Jurnal Kesehatan Reproduksi*, **4(1)**, p. 41-49.
- Lee, H. Y., Kim, S. W., Lee, G. H., Choi, M. K., Jung, H. W., Kim, Y. J., Kwon, H. J., and Chae, H. J., 2016. Turmeric Extract and Its Active Compound, Curcumin, Protect Against Chronic CCl_4^- Induced Liver Damage by Enhancing Antioxidation. *BMC Complementary and Alternative Medicine*, **16(316)**, p. 1-9.
- Lin, W., Zengyong, W., and Jianzhu, L., 2010. Protective Effect of N-Acetylcytisteine on Experimental Chronic Lead Nephrotoxicity in Immature Female Rats. *Human and Experimental Toxicology*, **29(7)**, p. 581-591.
- Lin, Y. G., Kunnumakkara, A. B., Nair, A., Merritt, W. M., Han, L. Y., Armaiz-Pena, G. N., Kamat, A. A., Spannuth, W. A., Gershenson, D. M., Lutgendorf, S. K., Aggarwal, B. B., and Sood, A. K., 2007. Curcumin Inhibits Tumor Growth and Angiogenesis in Ovarian Carcinoma by Targeting the Nuclear Factor-KappaB Pathway. *Clinical Cancer Research*, **13**, p. 3423–3430.
- Mardiani, T. H., 2008. Pengaruh Pemberian Timbal (Pb) terhadap Kadar Malondialdehid Plasma Mencit. *Tesis*. Universitas Sumatera Utara, Medan.
- Marianti, A. dan Aziz, R. A., 2014. Efek Paparan Kronik Timbal (Pb) Per Oral pada Struktur Histopatologik Lambung Tikus Putih. *Unnes Journal of Life Science*, **3(2)**, p. 88.
- Menon, V. P. and Sudheer, A. R., 2007. Antioxidant and Anti-inflammatory Properties of Curcumin. *Advances in Experimental Medicine and Biology*, **595**, p. 10525.

- Menteri Kesehatan Republik Indonesia, 2010. *Peraturan Menteri Kesehatan No. 492/Menkes/Per/IV/2010 tentang Persyaratan Kualitas Air Minum.* Jakarta: Sekretariat Negara.
- Mudipalli, A., 2007. Lead Hepatotoxicity & Potential Health Effects. *Indian Journal of Medical Research*, **126**, p. 518-527.
- Mulyani, S., 2017. Sinergisme Antioksidan Kunyit dan Daun Asam (*Curcuma domestica* Val. – *Tamarindus indica* L.) sebagai Krim Inhibitor Kolagenase. *Disertasi*. Universitas Udayana, Bali.
- Murray, R. K., Granner, D. K., and Rodwell, V. W., 2009. *Biokimia Harper*, edisi 27. Jakarta: EGC Penerbit Buku Kedokteran.
- Nallagangula, K. S., Nagaraj, S. K., Venkataswamy, L., and Chandrappa, M., 2017. Liver Fibrosis: A Compilation on the Biomarkers Status and Their Significance during Disease Progression. *Future Science OA*, **4 (1)**.
- Naria, E., 2005. Mewaspadai Dampak Bahan Pencemar Timbal (Pb) di Lingkungan terhadap Kesehatan. *Jurnal Komunikasi Penelitian*, **17(4)**, p. 66-69.
- Nugrahadi, S. dan Limantara, L., 2008. Likopen: Antioksidan Alifatik yang Efektif. *Prosiding Sains dan Teknologi Pigmen Alami*. Salatiga: Seminar Nasional Pigmen.
- Nugroho, E. A., Yuniarti, N., Estyastono, E. P., Supardjan, dan Hakim, L., 2006. Penetapan Aktivitas Antioksidan Dehidro-Zingeron Melalui Penangkapan Radikal Hidroksi dengan Metode Deoksiribosa. *Majalah Farmasi Indonesia*, **17(3)**, p. 117.
- Nurminha, 2013. Gambaran Aktivitas Enzim SGOT dan SGPT pada Penderita Demam Berdarah Dengue di RSUD Dr. H. Abdoel Moeloek Bandar Lampung. *Jurnal Analis Kesehatan*, **2 (2)**, p. 280.
- Omobowale, T. O., Oyagbemi, A. A., Akinrinde, A. S., Saba, A. B., Daramola, O. T., Ogunpolu, B. S., and Olopade, J. O., 2014. Failure of Recovery from Lead Induced Hepatotoxicity and Disruption of Erythrocyte Antioxidant Defence System in Wistar Rats. *Environmental Toxicology and Pharmacology*, **37(3)**, p. 1202-1211.
- Pagliara, P., Carla, E. C., Caforio, S., Chionna, A., and Abboro, L., 2003. Kupffer Cells Promote Lead Nitrate Induced Hepatocyte Apoptosis via Oxidative Stress. *Comparative Hepatology*, **2(8)**, p. 1-13.
- Palar, H., 2004. *Pencemaran dan Toksikologi Logam Berat*. Jakarta: Rineka Cipta.
- Parwata, I. M. O. A., 2016. **Antioksidan. Bahan Ajar: Kimia Terapan.** Bali. Universitas Udayana.
- Patra, R. C., Rautray, A. K., and Swarup, A. D., 2011. Oxidative Stress in Lead and Cadmium Toxicity and Its Amelioration. *Veterinary Medicine International*, **2011**, p. 1-9.
- Patrick, L., 2006. Lead Toxicity, A Review of The Literature. Part 1: Exposure, Evaluation, and Treatment. *Alternative Medicine Review*, **11**, p. 2–22.
- Peanasari, A. R. I., Djamil, S. L., dan Rohmani, A., 2015. Pengaruh Formalin Per Oral terhadap Kadar SGOT dan SGPT Tikus Wistar. *Jurnal Kedokteran Muhammadiyah*, **2(1)**, p. 34-37.

- Prior, R. L., Huang, D., and Ou, B. 2005. The Chemistry Behind Antioxidant Capacity Assays. *Journal of Agricultural and Food Chemistry*, **53**, p. 1841-1856.
- Priyadarsini, K., Maity, D. K., Naik, G. H., Kumar, M. S., Unnikrishnan, M. K., Satav, J. G., and Mohan, H., 2003. Role of Phenolic OH and Methylenes Hydrogen on the Free Radical Reactions and Antioxidant Activity of Curcumin. *Free Radical Biology and Medicine*, **35**, p. 475-484.
- Priyadarsini, K. I., 2014. The Chemistry of Curcumin: From Extraction to Therapeutic Agent. *Molecules*, **19**, p. 20091-20112.
- Purba, E. R. dan Martosupono M., 2009. Kurkumin sebagai Senyawa Antioksidan. *Prosiding Seminar Nasional Sains dan Pendidikan Sains IV*, (3), p. 607-621.
- Rossi, E., 2008. Low Level Environmental Lead Exposure - A Continuing Challenge. *Clinical Biochemist Reviews*, **29**, p. 63–70.
- Samarghandian, S., Azimi-Nezhad, M., Farkhondeh, T., and Samini, F., 2017. Anti-oxidative Effects of Curcumin on Immobilization Induced Oxidative Stress in Rat Brain, Liver and Kidney. *Biomedicine Pharmacotherapy*, **87**, p. 223-9.
- Shafie, A. A., Oh, A. L., Hassali, M. A., Al-Haddad, M. S., Syed, S. A., and Awaisu, A. 2011. Public Knowledge and Attitudes Towards Antibiotics Usage: A Cross Sectional Study Among The General Public in The State of Penang, Malaysia. *Journal of Infection in Developing Countries*, **5(5)**, p. 338-47.
- Shan, C. Y. dan Iskandar, Y., 2018. Studi Kandungan Kimia dan Aktivitas Farmakologi Tanaman Kunyit (*Curcuma longa* L.). *Farmaka*, **16(2)**, p. 549-550.
- Sipos, P., Szentmihalyi, K., Feher, E., Abaza, M., Szilagyi, M., and Blazovics, A., 2003. Some Effect of Lead Contamination on Liver and Gallblader Bile. *Acta Biologica Szegediensis*, **47(1-4)**, p. 139-142.
- Soemirat, J., 2005. *Toksikologi Lingkungan*. Yogyakarta: Gadjah Mada University Press.
- Stockham, S. L. and Scott, M. A., 2002. *Fundamentals of Veterinary Clinical Pathology*, 1st ed. Iowa: State Pr. Blackwell Publishing Co.
- Suckow, M. A., Steven, H. W., and Craig, L. F., 2006. The Laboratory Rat. *USA: American Collage of Laboratory Animal Medicine Series*, **14(3)**, p. 133.
- Suciani, S., 2007. Kadar Timbal dalam Darah Polisi Lalu Lintas dan Hubungannya dengan Kadar Hemoglobin. *Tesis*. Universitas Diponegoro, Semarang.
- Sudarwin, 2008. Analisis Spasial Pencemaran Logam Berat (Pb dan Cd) pada Sedimen Aliran Sungai dari Tempat Pembuangan Akhir (TPA) Sampah Jatibarang Semarang. *Tesis*. Universitas Diponegoro, Semarang.
- Sulaiman, A., Akbar, N., Lesmana, E. A., dan Noer, M. S., 2011. *Buku Ajar Ilmu Penyakit Hati*. Yogyakarta: Sagung Seto.
- Susmiati, T., 2010. Mekanisme Penghambatan Inisiasi Aterosklerosis di Tingkat Seluler oleh Kurkuminoid Ekstrak Temu Mangga (*Curcuma mangga*). *Disertasi*. Institut Pertanian Bogor, Bogor.

- Tarasub, N., Narula, K., and Ayutthaya, W. D. N., 2008. Effects of Curcumin on Cadmium-Induced Hepatotoxicity in Rats. *Thailand Journal Toxicology*, **23(2)**, p. 100-107.
- Timbrell, J. A., 2008. *Principles of Biochemical Toxicology*. 4th ed. New York: Informa Health Care.
- Utami, A. M., 2010. Aktivitas Antioksidan Ekstrak Buah dan Daun Mengkudu. *Skripsi*. Institut Pertanian Bogor, Bogor.
- Vimala, S., Adenan, M. I., Ahmad, A. R., and Shahdan, R., 2003. *Nature's Choice To Wellness: Antioxidant Vegetables/Ulam*. Kuala Lumpur: Forest Research Institut.
- Wani, A. L., Ara, A., and Usmani, J. A., 2015. Lead Toxicity: A Review. *Interdisciplinary Toxicology*, **8(2)**, p. 55-64.
- Widowati, W., 2008. *Efek Toksik Logam Pencegahan dan Penanggulangan Pencemaran*. Yogyakarta: Penerbit ANDI.
- Winarsi, H., 2011. *Antioksidan Alami dan Radikal Bebas*. Yogyakarta: Kanisius.
- Woolf, A. D. and Pfleger, B., 2003. Burden Of Major Musculoskeletal Conditions. *Buletin of the World Organization*, **81(9)**.
- Xu, Y., Ku, B., Cui, L., Li, X., Barish, P. A., Foster, T. C., and Ogle, W. O., 2007. Curcumin Reverses Impaired Hippocampal Neurogenesis and Increases Serotonin Receptor 1A Mrna and Brain-Derived Neurotrophic Factor Expression in Chronically Stressed Rats. *Brain Research*, **1162**, p. 9–18.
- Yuan, B., Imai, M., Kikuchi, H., Fukushima, S., Hazama, S., Akaike, T., Yoshino, Y., Ohyama, K., Hu, X., Pei, X., and Toyoda, H., 2012. Cytocidal Effects of Polyphenolic Compounds, Alone or in Combination with, Anticancer Drugs Against Cancer Cells: Potential Future Application of the Combination Therapy. *Apoptosis and Medicine*, **6**, p. 158.
- Zheng, W. and Wang, S.Y., 2009. Antioxidant Activity and Phenolic Compounds in Selected Herbs. *Journal of Agricultural and Food Chemistry*, **49(11)**, p. 5165-70.