



DAFTAR PUSTAKA

- Abdelmeguid, N. E., Khalil, M. I., Badr, N. S., Alkhuriji, A. F., El-Gerbed, M. S. E., and Sultan, A. S. 2021. Ameliorative effects of colostrum against DMBA hepatotoxicity in rats. *Saudi Journal of Biological Sciences.* **28**(4): 2254–2266.
- Alamsyah, F., I. N. Ajrina, F. N. A. Dewi, D. Iskandriati, S. A. Prabandari, W. P. Taruno. 2015. Antiproliferative Effect of Electric Fields on Breast Tumor Cells In Vitro and In Vivo. *Indonesian Journal of Cancer Chemoprevention.* **6**(3): 71-77.
- American Society of Clinical Oncology (2019) ‘Long-Term Side Effects of Cancer Treatment’. <https://www.cancer.net/survivorship/long-term-side-effects-cancer-treatment> Diakses: September 6, 2022.
- Allen, S., E. 2002. *The liver: Anatomy, Physiology, Disease and Treatment.* Northeastern University Press: USA
- Bissel, D. M., Wang, S. S., Jarnagin, W. R., and Roll, F. J. 1995. Cell-specific Expression of Transforming Growth Factor- β in Rat Liver: Evidence for Autocrine Regulation of Hepatocyte Proliferation. *J. Clin. Invest.* **96**: 447-455.
- Breuhahn, K., Longerich, T., and Schirmacher P. 2006. Dysregulation of growth factor signaling in human hepatocellular carcinoma. *Oncogene.* **25**(27): 3787-3800.
- Castro, F., Cardoso, A. P., Gonçalves, R. M., Serre, K., and Oliveira, M. J. 2018. Interferon-Gamma at the Crossroads of Tumor Immune Surveillance or Evasion. *Frontiers in Immunology.* **9**: 847.
- Crispe, I. N. 2009. The liver as a lymphoid organ. *Annual Review of Immunology.* **27**:147–163.
- Dai, C., and Krantz, S. B. 1999. Interferon gamma induces upregulation and activation of caspases 1, 3, and 8 to produce apoptosis in human erythroid progenitor cells. *Blood.* **93**(10): 3309–3316.
- Damyanov, C. A., Maslev, I. K., Pavlov, V. S., and Avramov, L. 2018. Conventional Treatment of Cancer Realities and Problems. *Annals of Complementary and Alternative Medicine.* **1**(1): 1002
- Dias, M. F., Sousa, E., Cabrita, S., Patricio, J., and Oliveira, C. F. 2000. Chemoprevention of DMBA-Induced Mammary Tumors in Rats by a Combined Regimen of Alpha-Tocopherol, Selenium, and Absorbic Acid. *The Breast Journal.* **6**(1): 14-19.
- Dooley, S. and ten Dijke, P. 2012. TGF- β in progression of liver disease. *Cell Tissue Res.* **347**: 245-256.
- Enzler, T., Gillessen, S., Manis, J. P., Ferguson, D., Fleming, J., Alt, F. W., Mihm, M., and Dranoff, G. 2003. Deficiencies of GM-CSF and interferon gamma link inflammation and cancer. *The Journal of Experimental Medicine.* **197**(9): 1213–1219.



- Etzerodt, A., and Moestrup S. K. 2013. CD163 and Inflammation: Biological, Diagnostic, and Therapeutic Aspects. *Antioxidants and Redox Signaling*. **18**(17): 2352–2363.
- Fabregat, I. and Caballero-Diaz, D. 2018. Transforming Growth Factor- β -Induced Cell Plasticity in Liver Fibrosis and Hepatocarcinogenesis. *Frontiers in Oncology*. **8**: 1-18
- Fadhlurrahman, A. G. 2018. Pengaruh Medan Listrik Statis terhadap Aktivitas Alanine Transaminase, Kadar Bilirubin dan Kreatinin Tikus (*Rattus norvegicus* Berkenhout, 1769) dengan Induksi 7,12-Dimethylbenz[α]anthracene. *Skripsi*. Fakultas Biologi Universitas Gadjah Mada.
- Fatihasari, F. 2021. Level Ekspresi mRNA Gen CD4, CD8 Alfa, dan IFN-Gamma Jaringan Tumor Payudara Tikus (*Rattus norvegicus* Berkenhout, 1769) dengan Perlakuan Paparan Medan Listrik Statis. *Skripsi*. Fakultas Biologi Universitas Gadjah Mada.
- Fortis, Sotirios P., Sofopoulos, M., Sotiriadou, N. N., Haritos, Vaxevanis, C., C. K., Anastasopoulou, E. A., Nicole Janssen, et al. 2017. Differential Intratumoral Distributions of CD8 and CD163 Immune Cells as Prognostic Biomarkers in Breast Cancer. *Journal for Immunotherapy of Cancer*. **5**(1): 1–12.
- Gera, N. and Swanson, K. D. 2016. “Cell Biological Effects of Tumor Treating Fields”. *Alternating Electric Fields Therapy in Oncology*. Eds. Eric T. Wong. Switzerland: Springer. pp 1-11.
- Gordon, S. and Martinez, F. O. 2010. Alternative activation of macrophages: mechanism and functions. *Immunity*. **32**: 593– 604.
- Gordon S. and Taylor, P. R. 2005. Monocyte and macrophage heterogeneity. *Nat Rev Immunol*. **5**: 953-964.
- Hata, A. and Chen, Y. G. 2016. TGF- β Signaling from Receptors to Smads. *Cold Spring Harb Perspect Biol*. **8**(9): 1-31.
- Hoare, J. I., Rajnicek, A. M., McCaig, C. D., Barker, R. N., and Wilson, H. M. 2015. Electric fields are novel determinants of human macrophage functions. *Journal of Leukocyte Biology*. **99**: 1141-1151.
- Horras, C. J., Lamb, C. L., and Mitchell, K. A. 2011. Regulation of hepatocyte fate by interferon- γ . *Cytokine and Growth Factor Reviews*. **22**(1): 35–43.
- Ito, S., Ansari, P., Sakatsume, M., Dickensheets, H., Vasquez, N., Donnelly, R. P., Larner, A. C., and Finblom, D. S. 1999. Interleukin-10 Inhibits Expression of Both Interferon α - and Interferon γ - Induced Genes by Suppressing Tyrosine Phosphorylation of STAT1. *Blood*. **5**(93): 1456-1463
- Jiao, K., Zhang, J., Zhang M., Wei, Y., Wu, Y., Qiu, Z. Y., and He, J., et al. 2013. The Identification of CD163 Expressing Phagocytic



- Chondrocytes in Joint Cartilage and Its Novel Scavenger Role in Cartilage Degradation. *PLoS ONE* **8**(1): 1–10.
- Kaplan, D. H., Shankaran, V., Dighe, A. S., Stockert, E., Aguet, M., Old, L. J., and Schreiber, R. D. 1998. Demonstration of an interferon gamma-dependent tumor surveillance system in immunocompetent mice. *Proceedings of the National Academy of Sciences of the United States of America*. **95**(13): 7556–7561.
- Kerdelhue, B., Forest, C., and Coumoul, X. 2016. Dimethyl-Benz(a)anthracene: A mammary carcinogen and a neuroendocrine disruptor. *Biochimie Open*. **3**: 49-55.
- Kirson, E. D., Gurvich, Z., Schneiderman, R., Dekel, E., Itzhaki, A., Wasserman, Y., Schatzberger, R., and Palti, Y. 2004. Disruption of cancer cell replication by alternating electric fields. *Cancer Research*. **64**(9): 3288–3295.
- Kmiec Z. 2001. The co-operation of liver cells in health and diseases. *Advances in Anatomy, Embryology, and Cell Biology*, **161**: 3–12.
- Knook D. L., Blansjaar N., and Sleyster E. C. 1977. Isolation and characterization of kupffer and endothelial cells from the rat liver. *Experimental Cell Research*. **109**(2): 317 – 329.
- Kolios, G., Valatas, V., and Kouroumalis, E. 2006. Role of Kupffer cells in the pathogenesis of liver disease. *World Journal of Gastroenterology*. **12**(46): 7413–7420.
- Lin, R., Cai, J., Kostuk, E. W., Rosenwasser, R., and Iacovitti, L. 2016. Fumarate modulates the immune/inflammatory response and rescues nerve cells and neurological function after stroke in rats. *Journal of Neuroinflammation*. **13**(1): 269.
- Lin, Q., Dong, L., Xu, Y., and Di, G. 2018. Studies on effects of static electric field exposure on liver in mice. *Scientific Reports*. **8**(1): 1-8
- Livak, K. J., and Schmittgen, T. D. (2001). Analysis of relative gene expression data using real-time quantitative PCR and the 2- $\Delta\Delta CT$ method. *Methods*. **25**(4): 402–408.
- National Center for Biotechnology Information. (2021). PubChem CompoundSummary for CID 6001, 7,12-Dimethylbenz[a]anthracene.
https://pubchem.ncbi.nlm.nih.gov/compound/7_12-Dimethylbenz_a_anthracene. Diakses tanggal 4 April 2021.
- National Cancer Institute (2018) ‘Side Effects of Cancer Treatment’.
<https://www.cancer.gov/about-cancer/treatment/side-effects> Diakses: September 6, 2022.
- No, J. H., Moon J. M., Kim K. D., and Kim Y. B. 2013. Prognostic Significance of Serum Soluble CD163 Level in Patients with Epithelial Ovarian Cancer. *Gynecologic and Obstetric*



- Nugraheni, S. E. D. 2018. Pengaruh Medan Listrik Statis Terhadap Jaringan Hepar Tikus (*Rattus Norvegicus* Berkenhout, 1769) Terinduksi 7,12 Dimetylbenz(A)Antrasen. *Skripsi*. Fakultas Biologi Universitas Gadjah Mada.
- Osman, R., Tacnet-Delorme, P., Kleman, J.-P., Millet, A., and Frachet, P. 2017. Calreticulin Release at an Early Stage of Death Modulates the Clearance by Macrophages of Apoptotic Cells. *Frontiers in Immunology*. 8: 1034.
- Ozougwu, J. C., 2017. Physiology of The Liver. *International Journal of Research in Pharmacy and Bioscience*. 4(8): 13-24.
- Prinanda, H. H. 2020. Level Ekspresi mRNA Gen CD163, CCL3, Dan CCR2 Jaringan Tumor Payudara Tikus (*Rattus Norvegicus* Berkenhout, 1769) Dengan Perlakuan Paparan Medan Listrik Statis. *Skripsi*. Fakultas Biologi Universitas Gadjah Mada.
- Russo, J., Gusterson, B. A., Rogers, A. E., Russo, I. H., Wellings S. R., and van Zwieten, M. J. 1990. Comparative study of human and rat mammary tumorigenesis. *Lab Invest.* 62: 244–278.
- Santodonato, Joseph. 1997. Review of the estrogenic and antiestrogenic activity of polycyclic aromatic hydrocarbons: relationship to carcinogenicity. *Chemosphere*. 34(4): 835-848.
- Schoenborn, J. R., and Wilson, C. B. (2007). Regulation of interferon-gamma during innate and adaptive immune responses. *Advances in Immunology*. 96: 41–101.
- Shabo, I., Olsson, H., Elkarim R., Feng Sun, X, and Joar Svanvik. 2014. Macrophage Infiltration in Tumor Stroma Is Related to Tumor Cell Expression of CD163 in Colorectal Cancer. *Cancer Microenvironment*. 7(1–2): 61–69.
- Sikka, G., Miller, K. L., Steppan, J., Pandey, D., Jung, S. M., Fraser III, C. D., Ellis, C., Ross, D., Vandegaer, K., Bedja, D., Gabrielson, K., Walston, J. D., and Berkowitz, E. 2013. Interleukin 10 knockout frail mice develop cardiac and vascular dysfunction with increased age. *Experimental Gerontology*. 48(2): 128-135.
- Steinberg, H. 2011. Electrotherapeutic disputes: The “Frankfurt Council” of 1891. *Brain*. 134(4): 1229–1243.
- Supardi, R. W. 2021. LEVEL EKSPRESI GEN IL2R, IFNV DAN TGF- β PADA JARINGAN TUMOR PAYUDARA TIKUS (*Rattus norvegicus* Berkenhout, 1769) DENGAN PERLAKUAN PAPARAN MEDAN LISTRIK STATIS FREKUENSI MENENGAH DAN INTENSITAS RENDAH. *Skripsi*. Fakultas Biologi Universitas Gadjah Mada.
- Swanson, K. D., Lok, E., and Wong, E. T. 2016. An Overview of Alternating Electric Fields Therapy (NovoTTF Therapy) for the



- Treatment of Malignant Glioma. *Curr Neurol Neurosci Rep.* **16:** 8
- Szpirer, Claude. 2010. Cancer research in rat models. *Methods Mol. Biol.* **597:** 445-458.
- Tang, X. 2013. Tumor-Associated Macrophages as Potential Diagnostic and Prognostic Biomarkers in Breast Cancer. *Cancer Letters.* **332**(1): 3–10.
- Wang, C., Ma, C., Gong, L., Gong, L., Guo, Y., Fu, K., Zhang, Y., Zhou, H., Li., Y. 2021. Macrophage Polarization and Its Role in Liver Disease. *Frontiers in Immunology.* **12:** 1-25.
- Wongso, H., dan Halimah, I. 2014. Prinsip Uji Praklinis dan Klinis dalam Pengembangan Radiofarmaka Penyidik Kanker. *Jurnal Forum Nuklir.* **8**(1):98-99, 102.
- World Health Organization (2018) ‘Indonesia Source GLOBOCAN 2018’, International Agency for Research on Cancer, 256, pp. 1-2. <http://gco.iarc.fr/> Diakses tanggal 4 April 2021.
- World Health Organization (2020) ‘Cancer Country Profile 2020 - Indonesia’ pp. 1-2. https://www.who.int/cancer/country-profiles>IDN_2020.pdf?ua=1 Diakses: April 4, 2021.
- Wu, C., Xue, Y., Wang, P., Lin, L., Liu, Q., Li, N., Cao, X. 2014. IFN- γ Primes Macrophage Activation by Increasing Phosphatase and Tensin Homolog via Downregulation of miR-3473b. *The Journal of Immunology.* **193**(6): 3036–3044.
- Yardim, Y., Keskin, E., and Levent, A. 2010. Voltammetric studies on the potent carcinogen, 7,12-dimethylbenz[a]anthracene: Adsorptive stripping voltammetric determination in bulk aqueous forms and human urine samples and detection of DNA interaction on pencil graphite electrode. *Talanta.* **80**(3): 1347-1355.