DAFTAR PUSTAKA

Alamsyah, F., I. N. Ajrina, F. N. A. Dewi, D. Iskandriati, S. A. Prabandari and W. P. Taruno. 2015. Antiproliferative Effect of Electric Fields on Breast Tumor Cells In Vitro and In Vivo. *Indonesia Journal of Cancer Chemoprevention* 6 (3):71- 77.

Ahmed, F. E., M. M. Gouda, L. A. Hussein, N. C. Ahmed, P. W. Vos, and M. A. Mohammad. 2017. Role of Melt Curve Analysis in Interpretation of Nutrigenomics MicroRNA Expression Data. *Cancer Genomics Proteomics* 14(6):469-481.

American Cancer Society (ACS). 2019. *Cancer Treatment & Survivorship Facts & Figures 2019-2021*. American Cancer Society. Atlanta.

Antara, N. Y. 2020. Ekspresi Gen Terkait Fungsi Makrofag Jaringan Tumor Payudara Tikus (*Rattus norvegicus* Barkenhout, 1769) dengan Perlakuan Terapi Medan Listrik Statis Frekuensi Menengah Intensitas Rendah. *Tesis*. Universitas Gadjah Mada.

Bain, C.C. and A. S. MacDonald. 2022. The Impact of the Lung Environment on Macrophage Development, Activation and Function: Diversity in The Face of Adversity. *Mucosal Immunology* 15(2):223-234.

Bustin, S. A., J. Vandesompele, and M. W. Pfaffl. 2009. Standarization of qPCR and RT-qPCR New Guidelines Seek to Promote Accurate Interpretation of Data and Reliable Results. *Genetic Engineering & Biotechnology News* 29(14):RP0045.

Bazzan E., G. Turato, M. Tinè, C. M. Radu, E. Balestro, C. Rigobello, D. Biondini, M. Schiavon, F. Lunardi, S. Baraldo, F. Rea, P. Simioni, F. Calabrese, M. Saetta and M. G. Cosio. 2017. Dual Polarization of Human Alveolar Macrophages Progressively Increases with Smoking and COPD Severity. *Respiratory Research* 18(40):1-8.

Bosschaerts, T., M. Guilliams, B. Stijlemans, Y. Morias, D. Engel, F. Tacke, H., Michel, P. De Baetselier, and A. Beschin. 2010. Tip-DC Development during Parasitic Infection is Regulated by IL-10 and Requires CCL2/CCR2, IFN-γ and MyD88 Signaling. *PLOS Pathogens* 6(8):e1001045.

Bouhlel, M., D. Amine, R. E. Bruno, and B. Staels. PPARγ Activation Primes Human Monocytes into Alternative M2 Macrophages with Anti-inflammatory Properties. *Cell Metabolism* 6(2):137-143.

Bustin S. and J. Huggett. 2017. qPCR Primer Design Revisited. *Biomolecular Detection and Quantification*, 14:19-28.

Carpinetti, P. A., V. S. Fioresi, T. Ignez da Cruz, F. A. N. de Almeida, D. Canal, A. Ferreira, and M. F. D. S. Ferreira. 2021. Efficient Method for Isolation of High-Quality RNA from *Psidium guajava* L. Tissues. *PloS One*, 16(7):e0255245

Cêtre, C., C. Cocude, C. Pierrot, C. Godin, A. Capron, M. Capron and J. Khalife. 1998. In Vivo Expression of Cytokine mRNA in Rats Infected with *Schistosoma mansoni*. *Parasite immunology* 20(3):135-142.

Davies, L. C. and Philip R. Taylor. 2015. Tissue-resident Macrophages: Then and Now. *Immunology* 144(4):541-548.

Davies, L. C., S. J. Jenkins, J. E. Allen, and Taylor, P. R. 2013. Tissue-resident Macrophages. *Nature Immunology*. 14(10), 986–995

Devlin, E.J., L. A. Denson, and H. S. Whitford. 2017. Cancer Treatment Side

Effects: A Meta-analysis of the Relationship Between Response Expectancies and Experience. *The Journals of Pain Symptom Management* 54(2):245-258.

Dheda, K., J. F. Huggett, S. A. Bustin, M. A. Johnson, G. Rook, and A. Zumla. 2004. Validation of Housekeeping Genes for Normalizing RNA Expression in Real-Time PCR. *BioTechniques* 37(1):112–119.

Duque, G. A. and A. Descoteaux. 2014. Macrophage Cytokines: Involvement in Immunity and Infectious Diseases. *Frontiers in Immunology* 5(491):1-12.

Eming, S. A., T. Krieg and J. M. Davidson. 2007. Inflammation in Wound Repair: Molecular and Cellular Mechanisms. *Journal of Investigative Dermatology* 127(3):514-525.

Fei, L., X. Ren, H. Yu, and Y. Zhan. 2021. Targeting the CCL2/CCR2 Axis in Cancer Immunotherapy: One Stone, Three Birds?. *Frontiers in Immunology* 3(12):771210.

Ferlay, J., M. Ervik, F. Lam, M. Colombet, L. Mery, and M. Piñeros. Global Cancer Observator. 2020 *Cancer Today. Lyon: International Agency for Research on Cancer*. https://gco.iarc.fr/today. Diakses tanggal 5 April 2021, jam 18.43 WIB.

Fridlender, Z. G. Kapoor, G. Buchlis, G. Cheng, J. Sun, L. C. Wang, S. Singhal, L.A. and S.M. Albelda. 2011. Monocyte Chemoattractant Protein-1 Blockade Inhibits Lung Cancer Tumor Growth by Altering Macrophage Phenotype and Activating CD8+ Cells. *American Journal of Respiratory Cell and Molecular Biology* 44(2):230-7.

Guan, W., and M. A. Reed. 2012. Electric Field Modulation of the Membrane Potential in Solid-State Ion Channels. *Nano Letters* 12(12):6441–6447.

Haddad, E. B., S. L. Cyr, K. Arima, R. A. McDonald, N. A> Levit, N. A., and F. O. Nestle. 2022. Current and Emerging Strategies to Inhibit Type 2 Inflammation in Atopic Dermatitis. *Dermatology and Therapy*. 12(7):1501–1533

Hellenbrand, D. J., K. A. Reichl, B. J. Travis, M. E. Filipp, A. S. Khalil, D. J. Pulito, A. V. Gavigan, E. R. Maginot, M. T. Arnold, A. G. Adler, W. L. Murphy, and Hanna A.S. 2019. Sustained Interleukin-10 Delivery Reduces Inflammation and Improves Motor Function After Spinal Cord Injury. *Journal of Neuroinflammation* 16(1):93.

Hu, G. and J. W. Christman. 2019. Editorial: Alveolar Macrophages in Lung Inflammation and Resolution. *Frontiers in Immunology* 10(2275):1-3.

Huggett, J, K. Dheda, S. Bustin, and A. Zumla. 2005. Real-time RT-PCR Normalisation; Strategies and Considerations. *Genes & Immunity* 6(4):279-84.

Imbeaud, S., E. Graudens, V. Boulanger, X. Barlet, P. Zaborski, E. Eveno, O. Mueller, A. Schroeder, and C. Auffray. 2005. Towards standardization of RNA Quality Assessment Using User-Independent Classifiers of Microcapillary Electrophoresis Traces. *Nucleic Acids Research*, 33(6):e56.

Kim, So Ri, K. S. Lee, H. S. Park, S. J. Park, K. H. Min, S. M. Jin and Y. C. Lee. 2005. Involvement of IL-10 in Peroxisome Proliferator-Activated Receptor γ-Mediated Anti-Inflammatory Response in Asthma. 68(6):1568-1575.

Kirson, E. D., Z. Gurvich, R. Schneiderman, E. Dekel, A. Itzhaki, Y. Wasserman, R. Schatzberger, and Y. Palti. 2004. Disruption of Cancer Cell Replication by Alternating Electric Fields. *Cancer Research*, 64(9):3288–3295.

Koetsier, G and Cantor E. 2019. A Practical Guide to Analyzing Nucleic Acid

Concentration and Purity with Microvolume Spectrophotometers. *New England Biolabs Technical Note*. Ipswich, USA.

Li, C., M. Levin, and D. L. Kaplan. 2016. Bioelectric Modulation of Macrophage Polarization. *Scientific Reports* 6:21044.

Li, L., Y. Liu, Y. Zhan, Y. Zhu, Y. Li, D. Xie, and X. Y. Guan. 2018. High levels of CCL2 or CCL4 in the Tumor Microenvironment Predict Unfavorable Survival in Lung Adenocarcinoma,, *Thoracic Cancer* 9(7):775-784.

Liu, Y., R. Xu, H. Gu, E. Zhang, J. Qu, W. Cao, X. Huang, H. Yan, J. He, and Z. Cai. 2021. Metabolic Reprogramming in Macrophage Responses. *Biomarker Research*. 9(1):1.

Livak, K. J., and T. D. Schmittgen. 2001. Analysis of Relative Gene Expression Data 61 Using Real-Time Quantitative PCR and the 2-ΔΔCT Method. *Methods* 25(4):402–408.

Mahon, S. M., and E.Carr. 2021. During and After Treatment Skin Toxicities: Common Side Effect. *Clinical Journal of Oncology Nursing* 25(6).

Mantovani A and Sica A. 2010. Macrophages, Innate Immunity and Cancer: Balance, Tolerance, and Diversity. *Current Opinion in Immunology* 22(2):231-237

McCormick, K. P., M. R.Willmann, and B. C. Meyers. 2011. Experimental Design, Preprocessing, Normalization and Differential Expression Analysis of Small RNA Sequencing Experiments. *Silence* 2(1):2.

Morales-Nerbreda, L., A. V. Misharin, H. Perlman and G. R. S. Budinger. 2015. The Heterogeneity of Lung Macrophages in the Susceptibility to Disease. *European Respiratory Review* 24:505-509.

Mosser, D. M., K. Hamidzadeh, and R. Goncalves. 2021.. Macrophages and the Maintenance of Homeostasis. *Cellular & Molecular Immunology* 18(3):579–587.

Mukaida, N., T. Nosaka. Y. Nakamoto and T. Baba. 2019. Lung Macrophages: Multifunctional Regulator Cells for Metastatic Cells. *International Journal of Molecular Sciences* 20(1):116.

Mumm, J. B., J. Emmerich, X. Z. Zhang, I. Chan, L. Wu, S. Mauze, S. Blaisdell, B. Basham, J. Dai, J. Grein, S. Catherine, K. Hong, C. Collette, and S. Turner. 2011. IL-10 Elicits IFNγ-Dependent Tumor Immune Surveillance. *Cancer Cell* 20(6):781-796.

Nurhidayat, N., I. Fajar, A. Yati, H. H. Prinanda, M. Irfan, D. Afina, A. G. Fadlurrahman, N. Y. Antara, F. Alamsyah, W. P. Taruno, and R. Pratiwi. 2022. Evaluation of Static Electric Field Exposure on Histopathological Structure and Function of Kidney and Liver in DMBA-Induced RAT (*Rattus norvegicus* Berkenhout, 1769). *Malaysian Journal of Fundamental and Applied Sciences* 18:703-713.

Ogger, P. P., and A. J. Byrne. 2021. Macrophage Metabolic Reprogramming during Chronic Lung Disease. *Mucosal Immunology* 14(2):282–295.

Oliveira, K. D., M. V. Tedardi, B. Cogliati, and M. L. Z. Dagli. 2013. Higher Incidence of Lung Adenocarcinomas Induced by DMBA in Connexin 43 Heterozygous Knockout Mice. *Biomed Reseach International* 2013:618475.

Park, Jeong In, Song, Kyung Hee, Jung, Seung Youn, Ahn Jiyeon, Hwang Sang Gu, Kim, Joon, Kim, Eun Ho, Song, Jie Young. 2019. Tumor-Treating Fields Induce RAW264.7 Macrophage Activation Via NK-κB/MAPK Signaling

Pathways. *Technology in Cancer Research&Treatment*. 18.

Poon, K., D. Abramova, H. T. Ho, and S. Leibowitz. 2016. Prenatal Fat-Rich Diet Exposure Alters Responses of Embryonic Neurons to the Chemokine CCL2 in the Hypothalamus. *Neuroscience* 324:407–419.

Pratiwi, R., N. Y. Antara, L. G. Fadliansyah, S. A. Ardiansyah, L. Nurhidayat, E. N. Sholikhah, S. Sunarti, S. Widyarini, A. G. Fadhlurrahman, H. Fatmasari, W. A. S. Tunjung, S. M. Haryana, F. Alamsyah & W. P. Taruno. 2020. CCL2 and IL18 Expressions may Associate with the Anti-Proliferative Effect of Noncontact Electro Capacitive Cancer Therapy *in vivo*. *F1000Research* 8(1770):1-25.

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*. Universitas Gadjah Mada.

Roszer, T. 2015. Understanding the Mysterious M2 Macrophage through Activation Markers and Effector Mechanisms. *Hindawi 2015 Edition*:1-16.

Ruiz-Villalba, A., J. M. Ruijter, and M. J. B. van den Hoff. 2021. Use and Misuse of Cq in qPCR Data Analysis and Reporting. *Life* (Basel, Switzerland) 11(6): 496.

Saqib, U., S. Sarkar, K. Suk, O. Mohammad, M. S. Baig, and R. Savai. 2018. Phytochemicals as Modulators of M1-M2 Macrophages in Inflammation. *Oncotarget* 9(25):17937-17950.

Sarode, P., M. B. Schaefer, F. Grimminger, W. Seeger and R. Savai. 2020. Macrophage and Tumor Cell Cross-Talk Is Fundamental for Lung Tumor Progression: We Need to Talk. *Frontiers in Oncology* 10(324):1-10.

Sierra-Filardi, E., C. Nieto, A. Domínguez-Soto, R. Barroso, P. Sánchez-Mateos, A. Puig-Kroger, M. López-Bravo, J. Joven, C. Ardavín, J. L. Rodríguez-Fernández, C. Sánchez-Torres, M. Mellado and A. L. Corbí. 2014. CCL2 Shapes Macrophage Polarization by GM-CSF and M-CSF: Identification of CCL2/CCR2-Dependent Gene Expression Profile. *The Journal of Immunology* 192(8):3858-3867.

Sikand, K, J. Singh, J. S. Ebron and G. C. Shukla. 2012. Housekeeping Gene Selection Advisory: glyceraldehyde-3-phosphate dehydrogenase (GAPDH) and β-actin Are Targets of miR-644a. *PLoS One* 7(10):e47510.

Silalahi, D, I. Gede Wirawan, and M. Sasadara. 2021. Optimization of Annealing Temperature for Amplification of EhoscnOla Locus in Pranajiwa (*Euchresta horsfieldii*) Plant Collected from Mountains, Urban and Coastal Areas in Bali. IOP Conference Series: *Earth and Environmental Science*. 913:012059.

Su, Y., J. Gao, P. Kaur, and Z. Wang. 2020. Neutrophils and Macrophages as Targets for Development of Nanotherapeutics in Inflammatory Diseases. *Pharmaceutics* 12(12):1222.

Sun, L., M. C. Louie and K. M. Vannella. 2011. New concepts of IL10-induced lung fibrosis: fibrocyte recruitment and M2 activation in a CCL2/CCR2 axis. *American Journal of Physiology-Lung Cellular and Molecular Physiology* 300(3):341–353.

Sung, H., J. Ferlay, R. L. Siegel, M. Laversanne, I. Soerjomataram, A. Jemal and F. Bray. 2021. Global Cancer Statistics 2020: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries. *A Cancer*

Journals for Clinicians :1-41.

Tan, H. Y., N. Wang, S. Li, M. Hong, X. Wang, and Y. Feng. 2015. The Reactive Oxygen Species in Macrophage Polarization: Reflecting Its Dual Role in Progression and Treatment of Human Diseases. *Hindawi* 2016.

Taki, F. A., A. A. Abdel-Rahman, and B. Zhang. 2014. A Comprehensive Approach to Identify Reliable Reference Gene Candidates to Investigate the Link Between Alcoholism and Endocrinology in Sprague-Dawley rats. *PloS One* 9(5):1-15.

Tedardi, M. V., K. D. Oliveira, G. Avanzo, and M. L. Z. Dagli. 2013. Chemical Carcinogenesis by 7,12-Dimethylbenzanthracene in Balb/c Mice. *BMC Proceedings* 7:46.

Uhlen, M., C. Zheng, S. Lee, E. Sjostedt, L. Fagerberg, G. Bidkhori, R. Benfeitas, M. Arif, Z. Liu, F. Edfors, K. Sanli, K. van Feilitzen, P. Oksvold, E. lundberg, S. Hober, P. Nilsson, J. Mattsson, J. M. Schwenk, H. Brunnstrom, B. Glimelius, T. Sjoblom, P. Edqvist, D. Djureinovic, P. Micke, C. Lindskog, A. Mardinoglu and F. Ponten. 2017. A Pathology Atlas of The Human Cancer Transcriptome. *Science* 357(6352):1-13.

Viola, A., F. Munari, R. Sanchez-Rodriguez, T. Scolaro and A. Castegna. 2019. The Metabolic Signature of Macrophages Responses. *Frontiers in Immunology* 10(1462):1-16.

Widiasri, N. K.. 2022. Ekspresi Relatif mRNA IFN-γ, IL-10, dan TNF-α Ginjal Tikus (*Rattus norvegicus* Berkenhout, 1769) Dengan dan Tanpa Tumor Payudara Setelah Paparan Medan Listrik Statis Frekuensi Menengah. *Skripsi*. Universitas Gadjah Mada.

Wculek, S. K., G. Dunphy, I. Heras-Murillo, A. Mastrangelo, and D. Sancho. 2022. Metabolism of Tissue Macrophages in Homeostasis and Pathology. *Cellular & Molecular Immunology* 19(3):384–408.

World Health Organization (WHO). 2021. *Cancer*. https://www.who.int/news-room/fact-sheets/detail/cancer. Diakses tanggal 5 April 2021, jam 19.01 WIB.

Wu, W., O. P. C. Llewellyn, D. O. Bates, L. B. Nicholson, and A. Dick. 2010. IL-10 Regulation of Macrophage VEGF Production is Dependent on Macrophage Polarisation and Hypoxia. *Immunobiology* 215(9-10):796-803.

Xu, M., Y. Wang, R. Xia, Y. Wei, and X. Wei. 2021. Role of the CCL2-CCR2 signalling axis in cancer: Mechanisms and Therapeutic Targeting. *Cell Proliferation Journal* 54(10):e13115.

Yang M and W. J. Brackenbury. 2013. Membrane Potential and Cancer Progression. *Frontiers in Physiology* 17(4)185.

Yang, Su-Lin, C. Show-Li, W. Ju-Yun, H. Tsung-Chuan, Tsao, and Yeou-Ping. 2010. Pigment epithelium-Derived Factor Induces Interleukin-10 Expression in Human Macrophages by Induction of PPAR Gamma. *Life Sicences* 87(1-2):26-35.

Yilmaz, M., C. Ozic, and I. Gok. 2012. Principles of Nucleic Acid Separation by Agarose Gel Electrophoresis. In. Gel Electrophoresis - Principles and Basics pp.33-40. *Intech*. France.

Yoshimura, T., O. M. Howard, T. Ito, M. Kuwabara, A. Matsukawa, K. Chen, Y. Liu, M. Liu, J. J. Oppenheim, and J. M. Wang. 2013. Monocyte Chemoattractant Protein-1/CCL2 Produced by Stromal Cells Promotes Lung Metastasis of 4T1 Murine Breast Cancer Cells. *PLoS One* 8(3).

Yoshimura, Teizo, Li, Chunning, Wang, Yuze and Matsukawa, Akihiro. 2023. The Chemokine Monocyte Chemoattractant Protein-1/CCL2 is a Promoter of Breast Cancer Metastasis. *Cellular & Molecular Immunology* 20:714-738.

Zhang, X., Y. Zhang, J. Chen, Y. Wu, J. Zhang, and J. Wang. 2019. Nanosecond Pulsed Electric Field Inhibits Malignant Melanoma Growth by Inducing the Change of Systemic Immunity. *Medicina oral, patologia oral y cirugia bucal*, 24(4).

Zhao, B. N., J. J. Campbell, C. L. Salanga, L. S. Ertl, Y. Wang, S. Yau, T. Dang, Y. Zeng, J. P. McMahon, A. Krasinski, P. Zhang, I. Kufareva, T. M. Handel, I. F. Charo, R. Singh, R., and T. J. Schall. 2019. CCR2-Mediated Uptake of Constitutively Produced CCL2: A Mechanism for Regulating Chemokine Levels in the Blood. *Journal of Immunology* (Baltimore, Md.:1950), 203(12):3157–3165.

Zhong, Hui, B. Weili, Y. Liu, and K. Yazdanbakhsh. 2019. Inflammation Response Cytokines IFN-γ and IL-10 Regulate Monocyte Subset Differentiation. *Blood* 134:3586.