

## DAFTAR PUSTAKA

- Alshehade, S. A., Almoustafa, H. A., Alshawsh, M. A., & Chik, Z. (2024). Flow cytometry-based quantitative analysis of cellular protein expression in apoptosis subpopulations: A protocol. *Heliyon*, 10(13). <https://doi.org/10.1016/j.heliyon.2024.e33665>
- Aswan & Hanriko. (2023). Faktor Risiko Kanker Kolorektal Colorectal Cancer Risk Factors. *Medula*, 13.
- Bodoque-Villar, R., Roldán-Díaz, E. M., Serrano-Oviedo, L., Garzón-Quintero, H. D., Cañete-Rodríguez, M., Gómez, L. A., Gracia, I., Rodríguez, J. F., Bejarano-Ramírez, N., Verdugo-Moreno, G., Muñoz-Rodríguez, J. R., & Redondo-Calvo, F. J. (2025). Evaluating *Allium sativum* and *Vitis vinifera* Extracts as Potential Adjuvant Agents in Colorectal Cancer: Insights from HT-29 and Caco-2 Models. *Biomedicines*, 13(8). <https://doi.org/10.3390/biomedicines13081968>
- Brown, J. S., Amend, S. R., Austin, R. H., Gatenby, R. A., Hammarlund, E. U., & Pienta, K. J. (2023). Updating the Definition of Cancer. *Molecular Cancer Research*, 21(11). <https://doi.org/10.1158/1541-7786.MCR-23-0411>
- Cassoli, C., & Baldari, C. T. (2022). The Expanding Arsenal of Cytotoxic T Cells. In *Frontiers in Immunology* (Vol. 13). Frontiers Media S.A. <https://doi.org/10.3389/fimmu.2022.883010>
- Chanda, M. K., Shudde, C. E., Piper, T. L., Zheng, Y., & Courtney, A. H. (2022). Combined analysis of T cell activation and T cell-mediated cytotoxicity by imaging cytometry. *Journal of Immunological Methods*, 506. <https://doi.org/10.1016/j.jim.2022.113290>
- Chen, H. H., Luo, C. W., Chen, Y. L., Chiang, J. Y., Huang, C. R., Wang, Y. T., Chen, C. H., Guo, J., & Yip, H. K. (2024). Probiotic-facilitated cytokine-induced killer cells suppress peritoneal carcinomatosis and liver metastasis in colorectal cancer cells. *International Journal of Biological Sciences*, 20(15), 6162–6180. <https://doi.org/10.7150/ijbs.101051>
- Costigan, A., Hollville, E., & Martin, S. J. (2023). Discriminating Between Apoptosis, Necrosis, Necroptosis, and Ferroptosis by Microscopy and Flow Cytometry. *Current Protocols*, 3(12). <https://doi.org/10.1002/cpz1.951>

- Dudziak, D., Heger, L., Agace, W. W., Bakker, J., de Gruijl, T. D., Dress, R. J., Dutertre, C. A., Fenton, T. M., Fransen, M. F., Ginhoux, F., Heyman, O., Horev, Y., Hornsteiner, F., Kandiah, V., Kles, P., Lubin, R., Mizraji, G., Prokopi, A., Saar, O., ... Zelle-Rieser, C. (2025). Guidelines for preparation and flow cytometry analysis of human nonlymphoid tissue DC. *European Journal of Immunology*, 55(1). <https://doi.org/10.1002/eji.202250325>
- Engel, N., Falodun, A., Kühn, J., Kragl, U., Langer, P., & Nebe, B. (2014). Pro-apoptotic and anti-adhesive effects of four African plant extracts on the breast cancer cell line MCF-7. *BMC Complementary and Alternative Medicine*, 14(1). <https://doi.org/10.1186/1472-6882-14-334>
- Fadlallah, H., El Masri, J., Fakhereddine, H., Youssef, J., Chemaly, C., Doughan, S., & Abou-Kheir, W. (2024). Colorectal cancer: Recent advances in management and treatment. *World Journal of Clinical Oncology*, 15(9), 1136–1156. <https://doi.org/10.5306/wjco.v15.i9.1136>
- Ferlay, J., Ervik, M., Lam, F., Laversanne, M., Colombet, M., Mery, L., Piñeros, M., Znaor, A., Soerjomataram, I., & Bray, F. (2024). *Global Cancer Observatory: Cancer Today*.
- Forgie, B. N., Prakash, R., Goyeneche, A. A., & Telleria, C. M. (2024). Vitality, viability, long-term clonogenic survival, cytotoxicity, cytostasis and lethality: what do they mean when testing new investigational oncology drugs? In *Discover Oncology* (Vol. 15, Number 1). Springer Science and Business Media B.V. <https://doi.org/10.1007/s12672-023-00857-2>
- Fu, X., Wang, Y., Dai, H., Li, H., Lv, H., Wang, T., & Han, W. (2011). Growth of human colorectal cancer SW1116 cells is inhibited by cytokine-induced killer cells. *Clinical and Developmental Immunology*, 2011. <https://doi.org/10.1155/2011/621414>
- Galassi, C., Chan, T. A., Vitale, I., & Galluzzi, L. (2024). The hallmarks of cancer immune evasion. In *Cancer Cell* (Vol. 42, Number 11, pp. 1825–1863). Cell Press. <https://doi.org/10.1016/j.ccell.2024.09.010>
- Ghaffari, S., Torabi-Rahvar, M., Aghayan, S., Jabbarpour, Z., Moradzadeh, K., Omidkhoda, A., & Ahmadbeigi, N. (2021). Optimizing interleukin-2 concentration, seeding density and bead-to-cell ratio of T-cell expansion for adoptive immunotherapy. *BMC Immunology*, 22(1). <https://doi.org/10.1186/s12865-021-00435-7>

- Ghazi, B., El Ghanmi, A., Kandoussi, S., Ghouzlani, A., & Badou, A. (2022). CAR T-cells for colorectal cancer immunotherapy: Ready to go? In *Frontiers in Immunology* (Vol. 13). Frontiers Media S.A. <https://doi.org/10.3389/fimmu.2022.978195>
- Han, J., Wang, Y., Chan, G. C. F., & Chan, W. K. (2025). Designs of NKG2D-based immunotherapeutics for cancer. In *Frontiers in Immunology* (Vol. 16). Frontiers Media SA. <https://doi.org/10.3389/fimmu.2025.1557644>
- Hassan, S. N., & W Ahmad, W. M. A. (2025). Three Fundamental Statistical Elements in Cell Culture-Based Anticancer Studies. *Asian Journal of Medicine and Biomedicine*, 9(2), 125–133. <https://doi.org/10.37231/ajmb.2025.9.2.785>
- Hassin, O., Nataraj, N. B., Shreberk-Shaked, M., Aylon, Y., Yaeger, R., Fontemaggi, G., Mukherjee, S., Maddalena, M., Avioz, A., Iancu, O., Mallel, G., Gershoni, A., Grosheva, I., Feldmesser, E., Ben-Dor, S., Golani, O., Hendel, A., Blandino, G., Kelsen, D., ... Oren, M. (2022). Different hotspot p53 mutants exert distinct phenotypes and predict outcome of colorectal cancer patients. *Nature Communications*, 13(1). <https://doi.org/10.1038/s41467-022-30481-7>
- He, T., Hu, C., Li, S., Fan, Y., Xie, F., Sun, X., Jiang, Q., Chen, W., Jia, Y., & Li, W. (2024). The role of CD8<sup>+</sup> T-cells in colorectal cancer immunotherapy. In *Heliyon* (Vol. 10, Number 12). Elsevier Ltd. <https://doi.org/10.1016/j.heliyon.2024.e33144>
- Herawati, A., Rijal, S., Aarsal, A. S. F., Purnamasari, R., & Abdi, D. A. (2021). Karakteristik Kanker Payudara. *FAKUMI MEDICAL JOURNAL: Jurnal Mahasiswa Kedokteran*, 1(1), 44–53. <https://doi.org/10.33096/fmj.v1i1.8>
- Hossain, Md. S., Karuniawati, H., Jairoun, A. A., Urbi, Z., Ooi, D. J., John, A., Lim, Y. C., Kibria, K. M. K., Mohiuddin, A. K. M., Ming, L. C., Goh, K. W., & Hadi, M. A. (2022). Colorectal Cancer : A Review of Carcinogenesis , Global. *Cancer*, 14(1732), 1–25.
- Jones, A. B., Rocco, A., Lamb, L. S., Friedman, G. K., & Hjelmeland, A. B. (2022). Regulation of NKG2D Stress Ligands and Its Relevance in Cancer Progression. In *Cancers* (Vol. 14, Number 9). MDPI. <https://doi.org/10.3390/cancers14092339>
- Joung, J., Kirchgatterer, P. C., Singh, A., Cho, J. H., Nety, S. P., Larson, R. C., Macrae, R. K., Deasy, R., Tseng, Y. Y., Maus, M. V., &

- Zhang, F. (2022). CRISPR activation screen identifies BCL-2 proteins and B3GNT2 as drivers of cancer resistance to T cell-mediated cytotoxicity. *Nature Communications*, 13(1). <https://doi.org/10.1038/s41467-022-29205-8>
- Kamiloglu, S., Sari, G., Ozdal, T., & Capanoglu, E. (2020). Guidelines for cell viability assays. *Food Frontiers*, 1(3), 332–349. <https://doi.org/10.1002/fft2.44>
- Kasi, A., Handa, S., Bhatti, S., Umar, S., Bansal, A., & Sun, W. (2020). Molecular Pathogenesis and Classification of Colorectal Carcinoma. In *Current Colorectal Cancer Reports* (Vol. 16, Number 5, pp. 97–106). Springer. <https://doi.org/10.1007/s11888-020-00458-z>
- Lazarski, C. A., & Hanley, P. J. (2023). *Title: Review of Flow Cytometry as a Tool for Cell and Gene Therapy*. <https://www.elsevier.com/open-access/userlicense/1.0/>
- Lerner, E. C., Woroniecka, K. I., D'Anniballe, V. M., Wilkinson, D. S., Mohan, A. A., Lorrey, S. J., Waibl-Polania, J., Wachsmuth, L. P., Miggelbrink, A. M., Jackson, J. D., Cui, X., Raj, J. A., Tomaszewski, W. H., Cook, S. L., Sampson, J. H., Patel, A. P., Khasraw, M., Gunn, M. D., & Fecci, P. E. (2023). CD8<sup>+</sup> T cells maintain killing of MHC-I-negative tumor cells through the NKG2D–NKG2DL axis. *Nature Cancer*, 4(9), 1258–1272. <https://doi.org/10.1038/s43018-023-00600-4>
- Li, C. M. Y., Tomita, Y., Dhakal, B., Tin, T., Li, R., Wright, J. A., Vrbanc, L., Woods, S. L., Drew, P., Price, T., Smith, E., Maddern, G. J., & Fenix, K. (2024). Generation and assessment of cytokine-induced killer cells for the treatment of colorectal cancer liver metastases. *Cancer Immunology, Immunotherapy*, 73(1). <https://doi.org/10.1007/s00262-023-03591-4>
- Li, C. Y., Brown, S., Mehrara, B. J., & Kataru, R. P. (2022). Lymphatics in Tumor Progression and Immunomodulation. *International Journal of Molecular Sciences*, 23(4). <https://doi.org/10.3390/ijms23042127>
- Madaniyah, L., Fiddaroini, S., Hayati, E. K., Rahman, M. F., & Sabarudin, A. (2025). Biosynthesis, characterization, and in-vitro anticancer effect of plant-mediated silver nanoparticles using *Acalypha indica* Linn: In-silico approach. *OpenNano*, 21(September 2024), 100220. <https://doi.org/10.1016/j.onano.2024.100220>

- Madorran, E., Ambrož, M., Knez, J., & Sobočan, M. (2025). An Overview of the Current State of Cell Viability Assessment Methods Using OECD Classification. In *International Journal of Molecular Sciences* (Vol. 26, Number 1). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/ijms26010220>
- Mantovani, F., Collavin, L., & Del Sal, G. (2019). Mutant p53 as a guardian of the cancer cell. In *Cell Death and Differentiation* (Vol. 26, Number 2, pp. 199–212). Nature Publishing Group. <https://doi.org/10.1038/s41418-018-0246-9>
- Mustafa, M., Ahmad, R., Tantry, I. Q., Ahmad, W., Siddiqui, S., Alam, M., Abbas, K., Moinuddin, Hassan, M. I., Habib, S., & Islam, S. (2024). Apoptosis: A Comprehensive Overview of Signaling Pathways, Morphological Changes, and Physiological Significance and Therapeutic Implications. In *Cells* (Vol. 13, Number 22). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/cells13221838>
- National Cancer Institute. (2024). *T-cell Transfer Therapy*. <https://www.cancer.gov/about-cancer/treatment/types/immunotherapy/t-cell-transfer-therapy>
- Nouvel, A., Laget, J., Duranton, F., Leroy, J., Desmetz, C., Servais, M. D., de Préville, N., Galtier, F., Nocca, D., Builles, N., Rebuffat, S., & Lajoix, A. D. (2021). Optimization of RNA extraction methods from human metabolic tissue samples of the COMET biobank. *Scientific Reports*, 11(1). <https://doi.org/10.1038/s41598-021-00355-x>
- Oren, M., & Rotter, V. (2010). Mutant p53 gain-of-function in cancer. In *Cold Spring Harbor perspectives in biology* (Vol. 2, Number 2). <https://doi.org/10.1101/cshperspect.a001107>
- Park, M., Lim, J., Ahn, A., Oh, E. J., Song, J., Kim, K. H., Han, J. Y., Choi, H. W., Park, J. H., Shin, K. H., Kim, H., Kim, M., Hwang, S. H., Kim, H. Y., Cho, D., & Kang, E. S. (2024). Current Status of Flow Cytometric Immunophenotyping of Hematolymphoid Neoplasms in Korea. *Annals of Laboratory Medicine*, 44(3), 222–234. <https://doi.org/10.3343/alm.2023.0298>
- Qian, S., Wei, Z., Yang, W., Huang, J., Yang, Y., & Wang, J. (2022). The role of BCL-2 family proteins in regulating apoptosis and cancer therapy. In *Frontiers in Oncology* (Vol. 12). Frontiers Media S.A. <https://doi.org/10.3389/fonc.2022.985363>

- Ramesh, P., & Medema, J. P. (2020). BCL-2 family deregulation in colorectal cancer: potential for BH3 mimetics in therapy. In *Apoptosis* (Vol. 25, Numbers 5–6, pp. 305–320). Springer. <https://doi.org/10.1007/s10495-020-01601-9>
- Robinson, J. P., Ostafe, R., Iyengar, S. N., Rajwa, B., & Fischer, R. (2023). Flow Cytometry: The Next Revolution. In *Cells* (Vol. 12, Number 14). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/cells12141875>
- Sayuti, M., & Nouva, N. (2019). Kanker Kolorektal. *AVERROUS: Jurnal Kedokteran Dan Kesehatan Malikussaleh*, 5(2), 76. <https://doi.org/10.29103/averrous.v5i2.2082>
- Skamnelos, A., Markopoulos, G. S., Dova, L., Tragani, I., Katsipaneli, M., Christodoulou, D., Katsanos, K., & Lampri, E. (2025). A Paired Flow Cytometry–Pathology Assessment for Immune Cell Detection in Intestinal Biopsies: Proof of Principle. *Methods and Protocols*, 8(5). <https://doi.org/10.3390/mps8050122>
- Sung, H., Ferlay, J., Siegel, R. L., Laversanne, M., Soerjomataram, I., Jemal, A., & Bray, F. (2021). Global Cancer Statistics 2020: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries. *CA: A Cancer Journal for Clinicians*, 71(3), 209–249. <https://doi.org/10.3322/caac.21660>
- Svandova, E., Lesot, H., Sharpe, P., & Matalova, E. (2023). Making the head: Caspases in life and death. In *Frontiers in Cell and Developmental Biology* (Vol. 10). Frontiers Media S.A. <https://doi.org/10.3389/fcell.2022.1075751>
- Thompson, R., & Cao, X. (2024). Reassessing granzyme B: unveiling perforin-independent versatility in immune responses and therapeutic potentials. In *Frontiers in Immunology* (Vol. 15). Frontiers Media SA. <https://doi.org/10.3389/fimmu.2024.1392535>
- Tuomela, K., Ambrose, A. R., & Davis, D. M. (2022). Escaping Death: How Cancer Cells and Infected Cells Resist Cell-Mediated Cytotoxicity. In *Frontiers in Immunology* (Vol. 13). Frontiers Media S.A. <https://doi.org/10.3389/fimmu.2022.867098>
- Vitale, I., Pietrocola, F., Guilbaud, E., Aaronson, S. A., Abrams, J. M., Adam, D., Agostini, M., Agostinis, P., Alnemri, E. S., Altucci, L., Amelio, I., Andrews, D. W., Aqeilan, R. I., Arama, E., Baehrecke, E. H., Balachandran, S., Bano, D., Barlev, N. A., Bartek, J., ... Galluzzi, L. (2023). Apoptotic cell death in disease—Current

- understanding of the NCCD 2023. In *Cell Death and Differentiation* (Vol. 30, Number 5). <https://doi.org/10.1038/s41418-023-01153-w>
- Wang, H., Li, Z. W., Ou, Q., Wu, X., Nagasaka, M., Shao, Y., Ou, S. H. I., & Yang, Y. (2022). NTRK fusion positive colorectal cancer is a unique subset of CRC with high TMB and microsatellite instability. *Cancer Medicine*, 11(13), 2541–2549. <https://doi.org/10.1002/cam4.4561>
- Weigelin, B., den Boer, A. T., Wagena, E., Broen, K., Dolstra, H., de Boer, R. J., Figdor, C. G., Textor, J., & Friedl, P. (2021). Cytotoxic T cells are able to efficiently eliminate cancer cells by additive cytotoxicity. *Nature Communications*, 12(1). <https://doi.org/10.1038/s41467-021-25282-3>
- Whale, A. S., De Spiegelaere, W., Trypsteen, W., Nour, A. A., Bae, Y. K., Benes, V., Burke, D., Cleveland, M., Corbisier, P., Devonshire, A. S., Dong, L., Drandi, D., Foy, C. A., Garson, J. A., He, H. J., Hellemans, J., Kubista, M., Lievens, A., Makrigiorgos, M. G., ... Huggett, J. F. (2020). The Digital MIQE Guidelines Update: Minimum Information for Publication of Quantitative Digital PCR Experiments for 2020. *Clinical Chemistry*, 66(8). <https://doi.org/10.1093/clinchem/hvaa125>
- Xing, S., & Ferrari de Andrade, L. (2020). NKG2D and MICA/B shedding: a ‘tag game’ between NK cells and malignant cells. *Clinical and Translational Immunology*, 9(12). <https://doi.org/10.1002/cti2.1230>
- Xu, N., Wu, Z., Pan, J., Xu, X., & Wei, Q. (2024). CAR-T cell therapy: Advances in digestive system malignant tumors. In *Molecular Therapy Oncology* (Vol. 32, Number 4). Cell Press. <https://doi.org/10.1016/j.omton.2024.200872>
- Zhou, X., Wang, Q., Lei, Z., Zhang, K., Zhen, S., Yao, H., & Zu, Y. (2023). Calcium Carbonate-Based Nanoplatfoms for Cancer Therapeutics: Current State of Art and Future Breakthroughs. *ACS Omega*, 11(9). <https://doi.org/10.1021/acsomega.3c09987>