

DAFTAR PUSTAKA

- Ahmed, M., Daoud, G. H., Mohamed, A., & Harati, R. (2021). New insights into the therapeutic applications of crispr/cas9 genome editing in breast cancer. In *Genes* (Vol. 12, Issue 5). MDPI. <https://doi.org/10.3390/genes12050723>
- Barbuti, A. M., & Chen, Z. S. (2015). Paclitaxel through the ages of anticancer therapy: Exploring its role in chemoresistance and radiation therapy. In *Cancers* (Vol. 7, Issue 4, pp. 2360–2371). MDPI AG. <https://doi.org/10.3390/cancers7040897>
- Boyle, P. (2012). Triple-negative breast cancer: Epidemiological considerations and recommendations. *Annals of Oncology*, 23(SUPPL. 6). <https://doi.org/10.1093/annonc/mds187>
- Dutta, P., Sarkissyan, M., Paico, K., Wu, Y., & Vadgama, J. v. (2018). MCP-1 is overexpressed in triple-negative breast cancers and drives cancer invasiveness and metastasis. *Breast Cancer Research and Treatment*, 170(3), 477–486. <https://doi.org/10.1007/s10549-018-4760-8>
- Georgieva, E., Ivanova, D., Zhelev, Z., Bakalova, R., Gulubova, M., & Aoki, I. (2017). Mitochondrial dysfunction and redox imbalance as a diagnostic marker of “free radical diseases.” In *Anticancer Research* (Vol. 37, Issue 10, pp. 5373–5381). International Institute of Anticancer Research. <https://doi.org/10.21873/anticancer.11963>
- Gibellini, L., Pinti, M., Nasi, M., de Biasi, S., Roat, E., Bertocelli, L., & Cossarizza, A. (2010). Interfering with ROS metabolism in cancer cells: The potential role of quercetin. In *Cancers* (Vol. 2, Issue 2, pp. 1288–1311). <https://doi.org/10.3390/cancers2021288>

- Gote, V., Deep Sharma, A., & Pal, D. (2021). Hyaluronic acid-targeted stimuli-sensitive nanomicelles co-encapsulating paclitaxel and ritonavir to overcome multi-drug resistance in metastatic breast cancer and triple-negative breast cancer cells. *International Journal of Molecular Sciences*, 22(3), 1–35. <https://doi.org/10.3390/ijms22031257>
- He, R., He, Y., Du, R., Liu, C., Chen, Z., Zeng, A., & Song, L. (2023). Revisiting of TAMs in tumor immune microenvironment: Insight from NF- κ B signaling pathway. In *Biomedicine and Pharmacotherapy* (Vol. 165). Elsevier Masson s.r.l. <https://doi.org/10.1016/j.biopha.2023.115090>
- Hidayati, Z., 2022. EFEK PACLITAXEL PADA LINI SEL KANKER PAYUDARA 4T1 DENGAN KNOCKOUT GSTM1 MENGGUNAKAN SINGLE MAUPUN DOUBLE CRISPR gRNA: KAJIAN PADA EKSON BERBEDA. Yogyakarta: s.n.
- Hikmah, F., Hardiany, N. S., & Kunci, K. (2021). Peran Reactive Oxygen Species (ROS) Dalam Sel Punca Kanker The Role of Reactive Oxygen Species (ROS) in Cancer Stem Cells. *JURNAL KEDOKTERAN YARSI*, 29(3), 120–134.
- Li, G., Xu, D., Sun, J., Zhao, S., & Zheng, D. (2020). Paclitaxel inhibits proliferation and invasion and promotes apoptosis of breast cancer cells by blocking activation of the PI3K/AKT signaling pathway. *Advances in Clinical and Experimental Medicine*, 29(11), 1337–1345. <https://doi.org/10.17219/ACEM/127681>
- Lingappan, K. (2018). NF- κ B in oxidative stress. In *Current Opinion in Toxicology* (Vol. 7, pp. 81–86). Elsevier B.V. <https://doi.org/10.1016/j.cotox.2017.11.002>

- Kauppinen, A., Suuronen, T., Ojala, J., Kaarniranta, K., & Salminen, A. (2013). Antagonistic crosstalk between NF- κ B and SIRT1 in the regulation of inflammation and metabolic disorders. In *Cellular Signalling* (Vol. 25, Issue 10, pp. 1939–1948). <https://doi.org/10.1016/j.cellsig.2013.06.007>
- Kim, Y. S., An, H. T., Kim, J., & Ko, J. (2009). Effects of protein kinase C δ and phospholipase C- γ 1 on monocyte chemoattractant protein-1 expression in taxol-induced breast cancer cell death. *International Journal of Molecular Medicine*, 24(6), 853–858. <https://doi.org/10.3892/ijmm.00000303>
- Lu, Y., Zhou, J., Zhang, J., Wang, Z., Yu, Y., Miao, M., & Yao, Q. (2019). Dual roles of glutathione S-transferase mu 1 in the development and metastasis of hepatocellular carcinoma. *Biomedicine and Pharmacotherapy*, 120. <https://doi.org/10.1016/j.biopha.2019.109532>
- Malla, R. R., Surepalli, N., Farran, B., Malhotra, S. v., & Nagaraju, G. P. (2021). Reactive oxygen species (ROS): Critical roles in breast tumor microenvironment. In *Critical Reviews in Oncology/Hematology* (Vol. 160). Elsevier Ireland Ltd. <https://doi.org/10.1016/j.critrevonc.2021.103285>
- Martín, D., Salinas, M., Fujita, N., Tsuruo, T., & Cuadrado, A. (2002). Ceramide and reactive oxygen species generated by H₂O₂ induce caspase-3-independent degradation of Akt/protein kinase B. *Journal of Biological Chemistry*, 277(45), 42943–42952. <https://doi.org/10.1074/jbc.M201070200>
- Mehanna, J., Haddad, F. G. H., Eid, R., Lambertini, M., & Kourie, H. R. (2019). Triple-negative breast cancer: Current perspective on the evolving therapeutic landscape. In *International Journal of Women's Health* (Vol.

11, pp. 431–437). Dove Medical Press Ltd.

<https://doi.org/10.2147/IJWH.S178349>

Miao, L. F., Ye, X. H., & He, X. F. (2020). Individual and combined effects of GSTM1, GSTT1, and GSTP1 polymorphisms on breast cancer risk: A meta-analysis and re-analysis of systematic meta-analyses. *PLoS ONE*, *15*(3).

<https://doi.org/10.1371/journal.pone.0216147>

Nakajima, S., & Kitamura, M. (2013). Bidirectional regulation of NF- κ B by reactive oxygen species: A role of unfolded protein response. In *Free Radical Biology and Medicine* (Vol. 65, pp. 162–174).

<https://doi.org/10.1016/j.freeradbiomed.2013.06.020>

Niu, B., Liao, K., Zhou, Y., Wen, T., Quan, G., Pan, X., & Wu, C. (2021). Application of glutathione depletion in cancer therapy: Enhanced ROS-based therapy, ferroptosis, and chemotherapy. In *Biomaterials* (Vol. 277). Elsevier Ltd. <https://doi.org/10.1016/j.biomaterials.2021.121110>

Oliveira, A. L., Oliveira Rodrigues, F. F., dos Santos, R. E., Rozenowicz, R. L., & Barbosa de Melo, M. (2014). GSTT1, GSTM1, and GSTP1 polymorphisms as a prognostic factor in women with breast cancer. *Genetics and Molecular Research*, *13*(2), 2521–2530. <https://doi.org/10.4238/2014.January.22.9>

Pizzino, G., Irrera, N., Cucinotta, M., Pallio, G., Mannino, F., Arcoraci, V., Squadrito, F., Altavilla, D., & Bitto, A. (2017). Oxidative Stress: Harms and Benefits for Human Health. In *Oxidative Medicine and Cellular Longevity* (Vol. 2017). Hindawi Limited. <https://doi.org/10.1155/2017/8416763>

Rajagopal, T., Seshachalam, A., Rathnam, K. K., Jothi, A., Talluri, S., Venkatabalasubramanian, S., & Dunna, N. R. (2021). Impact of xenobiotic-metabolizing gene polymorphisms on breast cancer risk in South Indian

women. *Breast Cancer Research and Treatment*, 186(3), 823–837.

<https://doi.org/10.1007/s10549-020-06028-z>

Ren, Z., He, H., Zuo, Z., Xu, Z., Wei, Z., & Deng, J. (2019). The role of different SIRT1-mediated signaling pathways in toxic injury. In *Cellular and Molecular Biology Letters* (Vol. 24, Issue 1). Springer International Publishing. <https://doi.org/10.1186/s11658-019-0158-9>

Sztalmachova, M., Gumulec, J., Raudenska, M., Polanska, H., Holubova, M., Balvan, J., et al. 2015. Molecular response of 4T1-induced mouse mammary tumours and healthy tissues to zinc treatment. *International Journal of Oncology*. 46:1810- 1818

Singh, S., Anshita, D., & Ravichandiran, V. (2021). MCP-1: Function, regulation, and involvement in disease. In *International Immunopharmacology* (Vol. 101). Elsevier B.V. <https://doi.org/10.1016/j.intimp.2021.107598>

Song, Z., Shao, C., Feng, C., Lu, Y., Gao, Y., & Dong, C. (2016). Association of glutathione S-transferase T1, M1, and P1 polymorphisms in the breast cancer risk: A meta-analysis. *Therapeutics and Clinical Risk Management*, 12, 763–769. <https://doi.org/10.2147/TCRM.S104339>

Storz, P., & Toker, A. (2003). Protein kinase D mediates a stress-induced NF- κ B activation and survival pathway. *EMBO Journal*, 22(1), 109–120. <https://doi.org/10.1093/emboj/cdg009>

Sun, L., Li, Z., Shang, H., Xin, X. 2021. Hypericin enhances paclitaxel induced B16- F10 cell apoptosis by activating a cytochrome c release dependent pathway. *Frontiers in Pharmacology*. 12:2-10.

- Taniguchi, K., & Karin, M. (2018). NF- κ B, inflammation, immunity and cancer: Coming of age. In *Nature Reviews Immunology* (Vol. 18, Issue 5, pp. 309–324). Nature Publishing Group. <https://doi.org/10.1038/nri.2017.142>
- Tsai, T. H., Lin, C. J., Chua, S., Chung, S. Y., Chen, S. M., Lee, C. H., & Hang, C. L. (2018). Deletion of rasGRF1 attenuated interstitial fibrosis in streptozotocin-induced diabetic cardiomyopathy in mice through affecting inflammation and oxidative stress. *International Journal of Molecular Sciences*, 19(10). <https://doi.org/10.3390/ijms19103094>
- Valenti, M. T., Bertoldo, F., Dalle Carbonare, L., Azzarello, G., Zenari, S., Zanatta, M., Balducci, E., Vinante, O., & Io Cascio, V. (2006). The effect of bisphosphonates on gene expression: GAPDH as a housekeeping or a new target gene? *BMC Cancer*, 6. <https://doi.org/10.1186/1471-2407-6-49>
- Vona, R., Pallotta, L., Cappelletti, M., Severi, C., & Matarrese, P. (2021). The impact of oxidative stress in human pathology: Focus on gastrointestinal disorders. In *Antioxidants* (Vol. 10, Issue 2, pp. 1–26). MDPI. <https://doi.org/10.3390/antiox10020201>
- Wu, M., Bian, Q., Liu, Y., Fernandes, A. F., Taylor, A., Pereira, P., & Shang, F. (2009). Sustained oxidative stress inhibits NF- κ B activation partially via inactivating the proteasome. *Free Radical Biology and Medicine*, 46(1), 62–69. <https://doi.org/10.1016/j.freeradbiomed.2008.09.021>
- Wu, Q. J., Zhang, T. N., Chen, H. H., Yu, X. F., Lv, J. le, Liu, Y. Y., Liu, Y. S., Zheng, G., Zhao, J. Q., Wei, Y. F., Guo, J. Y., Liu, F. H., Chang, Q., Zhang, Y. X., Liu, C. G., & Zhao, Y. H. (2022). The sirtuin family in health and disease. In *Signal Transduction and Targeted Therapy* (Vol. 7, Issue 1). Springer Nature. <https://doi.org/10.1038/s41392-022-01257-8>

- Wong, N., Liu, W., & Wang, X. (2015). WU-CRISPR: Characteristics of functional guide RNAs for the CRISPR/Cas9 system. *Genome Biology*, *16*(1).
<https://doi.org/10.1186/s13059-015-0784-0>
- Yeung, F., Hoberg, J. E., Ramsey, C. S., Keller, M. D., Jones, D. R., Frye, R. A., & Mayo, M. W. (2004). Modulation of NF- κ B-dependent transcription and cell survival by the SIRT1 deacetylase. *EMBO Journal*, *23*(12), 2369–2380.
<https://doi.org/10.1038/sj.emboj.7600244>
- Yin, L., Duan, J. J., Bian, X. W., & Yu, S. C. (2020). Triple-negative breast cancer molecular subtyping and treatment progress. In *Breast Cancer Research* (Vol. 22, Issue 1). BioMed Central Ltd. <https://doi.org/10.1186/s13058-020-01296-5>
- Zhang, W. P., He, X. F., & Ye, X. H. (2020). Association between the combined effects of GSTM1 present/null and CYP1A1 MspI polymorphisms with lung cancer risk: An updated meta-analysis. *Bioscience Reports*, *40*(9).
<https://doi.org/10.1042/BSR20202275>
- Zuo, L., Prather, E. R., Stetskiv, M., Garrison, D. E., Meade, J. R., Peace, T. I., & Zhou, T. (2019). Inflammaging and oxidative stress in human diseases: From molecular mechanisms to novel treatments. In *International Journal of Molecular Sciences* (Vol. 20, Issue 18). MDPI AG.
<https://doi.org/10.3390/ijms20184472>