

## DAFTAR PUSTAKA

Aggarwal, V. *et al.* (2019) ‘Role of reactive oxygen species in cancer progression: Molecular mechanisms and recent advancements’, *Biomolecules*. MDPI AG. Available at: <https://doi.org/10.3390/biom9110735>.

Arsita, E. V., 2022. EFEK DELESI GSTM1 MENGGUNAKAN CRISPR Single Guide RNA TUNGGAL DAN GANDA PADA VIABILITAS SEL 4T1 YANG DITERAPI PACLITAXEL, KAJIAN PADA EXON YANG SAMA. Yogyakarta: s.n.

Aysola, *et al.* (2012) “Triple negative breast cancer – an overview,” *Hereditary Genetics* [Preprint]. Available at: <https://doi.org/10.4172/2161-1041.s2-001>.

Albarakati, N. *et al.* (2019) ‘The prognostic impact of GSTM1/GSTP1 genetic variants in bladder Cancer’, *BMC Cancer*, 19(1). Available at: <https://doi.org/10.1186/s12885-019-6244-6>.

Ali, Arshad, Ali, Ayaz and Ahmad, S. (2021) ‘Alterations of glutathione and gstm1 mutation induce tumor metastasis and invasion via emt pathway in breast cancer patients’, *Eurasian Journal of Medicine and Oncology*, 5(3), pp. 249–259. Available at: <https://doi.org/10.14744/ejmo.2021.25927>.

Carlisle, S.M. *et al.* (2018) ‘Knockout of human arylamine N-acetyltransferase 1 (NAT1) in MDA-MB-231 breast cancer cells leads to increased reserve capacity, maximum mitochondrial capacity, and glycolytic reserve capacity’, *Molecular Carcinogenesis*, 57(11), pp. 1458–1466. Available at: <https://doi.org/10.1002/mc.22869>.

Dasari, S. (2017) ‘Glutathione S-transferases Detoxify Endogenous and Exogenous Toxic Agents- Minireview’, *Journal of Dairy, Veterinary & Animal Research*, 5(5). Available at: <https://doi.org/10.15406/jdvar.2017.05.00154>.

Fukai, T. and Ushio-Fukai, M. (2011) ‘Superoxide dismutases: Role in redox signaling, vascular function, and diseases’, *Antioxidants and Redox Signaling*, pp. 1583–1606. Available at: <https://doi.org/10.1089/ars.2011.3999>.

Globocan (2020) World - IARC, World. Available at: <https://gco.iarc.fr/today/data/factsheets/populations/900-world-fact-sheets.pdf> (Accessed: 10 December 2022).

Hazafa, A. *et al.* (2020) ‘CRISPR/Cas9: A powerful genome editing technique for the treatment of cancer cells with present challenges and future directions’, *Life Sciences*. Elsevier Inc. Available at: <https://doi.org/10.1016/j.lfs.2020.118525>.

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.

Hollman, A.L., Tchounwou, P.B. and Huang, H.C. (2016) ‘The association between gene-environment interactions and diseases involving the human GST superfamily with SNP variants’, *International Journal of Environmental Research and Public Health*. MDPI. Available at: <https://doi.org/10.3390/ijerph13040379>.

Kilbas, P.O. *et al.* (2022) ‘CRISPR/Cas9-mediated Bag-1 knockout increased mesenchymal characteristics of MCF-7 cells via Akt hyperactivation-mediated actin cytoskeleton remodeling’, *PLoS ONE*, 17(1 January). Available at: <https://doi.org/10.1371/journal.pone.0261062>.

Kuleape, J.A. et al. (2018) ‘Homozygous deletion of both GSTM1 and GSTT1 genes is associated with higher CD4+ T cell counts in Ghanaian HIV patients’, *PLOS ONE*, 13(5). doi:10.1371/journal.pone.0195954.

Levy, R. and Le, T.H. (2022) ‘Role of GSTM1 in hypertension, CKD, and related diseases across the life span’, *Kidney360*, 3(12), pp. 2153–2163. doi:10.34067/kid.0004552022.

Liou, G.Y. and Storz, P. (2010) ‘Reactive oxygen species in cancer’, *Free Radical Research*, pp. 479–496. Available at: <https://doi.org/10.3109/10715761003667554>.

Lu, Y. et al. (2019) ‘Dual roles of glutathione S-transferase MU 1 in the development and metastasis of hepatocellular carcinoma’, *Biomedicine & Pharmacotherapy*, 120, p. 109532. doi:10.1016/j.biopha.2019.109532.

Łukasiewicz, S. et al. (2021) ‘Breast cancer—epidemiology, risk factors, classification, prognostic markers, and current treatment strategies—An updated review’, *Cancers*. MDPI. Available at: <https://doi.org/10.3390/cancers13174287>.

Nebert, D.W. and Vasiliou, V. (2004) “Analysis of the glutathione S-transferase (GST) gene family,” *Human Genomics*, 1(6), p. 460. Available at: <https://doi.org/10.1186/1479-7364-1-6-460>.

Nishijima, Y. et al. (2016) ‘Expression profiles of the antioxidant enzymes gene (SOD1, CAT, GPX, and HMOX1) in the skin of UV-irradiated and obese mice’, *Journal of Nursing Science and Engineering*, 3(1). doi: [https://doi.org/10.24462/jnse.3.1\\_13](https://doi.org/10.24462/jnse.3.1_13).

Oh, S.H. et al. (2019) 'The emerging role of xanthine oxidase inhibition for suppression of breast cancer cell migration and metastasis associated with hypercholesterolemia', *FASEB Journal*, 33(6), pp. 7301–7314. Available at: <https://doi.org/10.1096/fj.201802415RR>.

Papa, L. et al. (2014) 'SOD2 to SOD1 switch in breast cancer', *Journal of Biological Chemistry*, 289(9), pp. 5412–5416. Available at: <https://doi.org/10.1074/jbc.C113.526475>.

Pizzino, G. et al. (2017) Oxidative stress: Harms and benefits for human health, *Oxidative Medicine and Cellular Longevity*. Available at: <https://doi.org/10.1155%2F2017%2F8416763> (Accessed: 01 January 2024).

Schrörs, B. et al. (2020) 'Multi-Omics Characterization of the 4T1 Murine Mammary Gland Tumor Model', *Frontiers in Oncology*, 10. Available at: <https://doi.org/10.3389/fonc.2020.01195>.

Singh, R.R. and Reindl, K.M. (2021) 'Glutathione s-transferases in cancer', *Antioxidants*. MDPI. Available at: <https://doi.org/10.3390/antiox10050701>.

Wang, H. et al. (2018) 'Glutathione S-transferase gene polymorphisms are associated with an improved treatment response to cisplatin-based chemotherapy in patients with non-small cell lung cancer (NSCLC): A meta-analysis', *Medical Science Monitor*, 24, pp. 7482–7492. Available at: <https://doi.org/10.12659/MSM.912373>

Wang, J. et al. (2015) 'Glutathione S-transferase polymorphisms influence chemotherapy response and treatment outcome in breast cancer', *Genetics and Molecular Research*, 14(3), pp. 11126–11132. doi:10.4238/2015.september.22.6.

Wang, S. *et al.* (2020) ‘GSTM3 function and polymorphism in cancer: Emerging but promising’, *Cancer Management and Research*, Volume 12, pp. 10377–10388. doi:10.2147/cmar.s272467.

Yang, M. *et al.* (2019) ‘Impact of CXCR4 and CXCR7 knockout by CRISPR/Cas9 on the function of triple-negative breast cancer cells’, *OncoTargets and Therapy*, 12, pp. 3849–3858. Available at: <https://doi.org/10.2147/OTT.S195661>.

Yu, K.-D. *et al.* (2009) ‘Genetic variants in GSTM3 gene within GSTM4-GSTM2-GSTM1-GSTM5-GSTM3 cluster influence breast cancer susceptibility depending on GSTM1’, *Breast Cancer Research and Treatment*, 121(2), pp. 485–496. doi:10.1007/s10549-009-0585-9.