

DAFTAR PUSTAKA

- Bao, B., & Prasad, A.S. (2019). Targeting CSC in a Most Aggressive Subtype of Breast Cancer TNBC. *Advances in experimental medicine and biology*, 1152, 311-334. doi: 10.1007/978-3-030-20301-6_17.
- Bertucci, A. et al. (2019). Tumor-Targeting, MicroRNA-Silencing Porous Silicon Nanoparticles for Ovarian Cancer Therapy. *ACS Applied Materials & Interfaces*, 11, 23926-23937. doi: 10.1021/acsami.9b07980.
- Bovicelli, A., D'Andrili, G., & Giordano, A. (2011). New players in ovarian cancer. *Journal of Cellular Physiology*, 226(10), 2500-2504. doi: 10.1002/jcp.22662.
- Cai, K.T. et al. (2018). Upregulated miR-203a-3p and its potential molecular mechanism in breast cancer: A study based on bioinformatics analyses and a comprehensive meta-analysis. *Molecular Medicine Reports*, 18(6), 4994-5008. doi: 10.3892/mmr.2018.9543.
- Calin, G. A., & Croce, C. M. (2006). MicroRNA signatures in human cancers. *Nature Reviews Cancer*, 6(11), 857-866. doi: 10.1038/nrc1997.
- Carrillo, C. et al. (2014). Chitosan nanoparticles as non-viral gene delivery systems: Determination of loading efficiency. *Biomedicine & Pharmacotherapy* 68(6), 75-783. doi: 10.1016/j.biopha.2014.07.009.
- Chandrasekar, N., Kumar, K. M. M., Balasubramnian, K. S., Karunamurthy. & R. varadharajan. (2013). Facile synthesis of iron oxide, iron-cobalt and zero valent iron nanoparticles and evaluation of their anti microbial activity, free radicle scavenging activity and antioxidant assay. *Digest Journal of Nanomaterials and Biostructures*, 8(2), 765-775. Retrieved from https://chalcogen.ro/765_Narendhar.pdf.
- Chendrimada, T.P. et al. (2005). TRBP recruits the Dicer complex to Ago2 for microRNA processing and gene silencing. *Nature*, 436(7051), 740-744. doi: 10.1038/nature03868.
- Chen, L. et al. (2018). miR-203a-3p promotes colorectal cancer proliferation and migration by targeting PDE4D. *American Journal of Cancer Research*, 8(12), 2387-2401. Retrieved from <https://pubmed.ncbi.nlm.nih.gov/30662799/>.
- Chen, M.C. et al. (2013). Recent advances in chitosan-based nanoparticles for oral delivery of macromolecules. *Advanced Drug Delivery Reviews*, 65(6), 865-79. doi: 10.1016/j.addr.2012.10.010.
- Cheung, R. C. F., Ng, T.B., Wong, J. H., & Chan, W. Y. (2015). Chitosan: An Update on Potential Biomedical and Pharmaceutical Applications. *Marine Drugs*, 13(8), 5156-5186. doi: 10.3390/md13085156.
- Chhabra, A., Fernando, H., Watkins, G., Mansel, R.E., & Jiang, W.G. (2007). Expression of transcription factor CREB1 in human breast cancer and its correlation with prognosis. *Oncology Reports*, 18(4), 935-958. doi: 10.3892/or.18.4.953.

- Choi, J., Jung, W. H., & Koo, J. S. (2012). Clinicopathologic features of molecular subtypes of triple negative breast cancer based on immunohistochemical markers. *Histology and Histopathology*, 27(11), 1481–1493. doi: 10.14670/HH-27.1481.
- Clogston, J. D., & Patri, A. K (2011). Zeta potential measurement. *Methods in Molecular Biology*, 697, 63-70. doi: 10.1007/978-1-60327-198-16.
- Csaba, N., Köping-Höggård, M., & Alonso, M. J. (2009). Ionically crosslinked chitosan/tripolyphosphate nanoparticles for oligonucleotide and plasmid DNA delivery. *International Journal of Pharmaceutics*, 382(1-2), 205-14. doi: 10.1016/j.ijpharm.2009.07.028
- Dai, X. et al. (2015). Breast cancer intrinsic subtype classification, clinical use and future trends. *American Journal of Cancer Research*, 5(10), 929-2943. Retrieved from <https://pubmed.ncbi.nlm.nih.gov/26693050/>.
- Danaei, M. et al. (2018). Impact of Particle Size and Polydispersity Index on the Clinical Applications of Lipidic Nanocarrier Systems. *Pharmaceutics*, 10(2), 57. doi: 10.3390/pharmaceutics10020057.
- De Carvalho, A. C. et al. (2015). Accuracy of microRNAs as markers for the detection of neck lymph node metastases in patients with head and neck squamous cell carcinoma. *BMC Medicine*, 13, 108. doi: 10.1186/s12916-015-0350-3.
- DeCastro, A. J. et al. (2013). MiR203 mediates subversion of stem cell properties during mammary epithelial differentiation via repression of Δ NP63 α and promotes mesenchymal-to-epithelial transition. *Cell Death & Disease*, 4(2), 1-10. doi: 10.1038/cddis.2013.37.
- Denizli, M. et al. (2017). Chitosan Nanoparticles for miRNA Delivery. *Methods in Molecular Biology*, 1632, 219-230. doi: 10.1007/978-1-4939-7138-1_14.
- Denli, A.M., Tops, B. B. J., Plasterk, R. H. A., Ketting, R. F., & Hannon, G. J. (2004). Processing of primary micro-RNA s by the Microprocessor complex. *Nature*, 432(7014), 235-240. doi: 10.1038/nature03049.
- Deng, X. et al. (2014). Hyaluronic acid-chitosan nanoparticles for co-delivery of MiR-34a and doxorubicin in therapy against triple negative breast cancer. *Biomaterial*, 35(14), 4333-4344. doi:10.1016/j.biomaterials.2014.02.00.
- Ding, L. et al. (2019). MicroRNAs Involved in Carcinogenesis, Prognosis, Therapeutic Resistance, and Applications in Human Triple-Negative Breast Cancer. *Cells*, 8(12), 1492. doi:10.3390/cells8121492.
- Elsawaf, Z., & Sinn, H. (2011). Triple-negative breast cancer: clinical and histological correlations. *Breast Care*, 6(4), 273–278. doi: 10.1159/000331643.
- Feng, Y. et al. (2018). Breast cancer development and progression: Risk factors, cancer stem cells, signaling pathways, genomics, and molecular pathogenesis. *Genes & Disease*, 5(2), 77-106. doi: 10.1016/j.gendis.2018.05.001.
- Fragomeni, S. M., Sciallis, A., & Jeruss, J. S. (2018). Molecular subtypes and local-regional control of breast cancer. *Surgical Oncology Clinics of North America*, 27(1), 95-120. doi:10.1016/j.soc.2017.08.005.

- Franken, N. A. P., Rodermond, H. M., Stap, J., Haveman, J., & van Bree, C. (2006). Clonogenic assay of cells in vitro. *Nature*, 1, 2315-2319. doi: 10.1038/nprot.2006.339.
- Freitas, J. T., Jozic, I., & Bedogni, B. (2021). Wound Healing Assay for Melanoma Cell Migration. *Methods in Molecular Biology*, 2265, 65-71. doi: 10.1007/978-1-0716-1205-7_4.
- Frixa, T., Donzelli, S., & Blandino, G. (2015). Oncogenic MicroRNAs: Key Players in Malignant Transformation. *Cancers*, 7(4), 2466–2485. doi: 10.3390/cancers7040904.
- Fu, S., Xia, J., & Wu, J. (2016). Functional Chitosan Nanoparticles in Cancer Treatment. *Journal of Biomedical Nanotechnology*, 12(8), 1585-1603. doi: 10.1166/jbn.2016.2228.
- Gan, Q., Wang, T., Cochrane, C., & McCarron, P. (2005). Modulation of surface charge, particle size and morphological properties of chitosan-TPP nanoparticles intended for gene delivery. *Colloids and Surfaces B: Biointerfaces*, 44(2-3), 65-73. doi: 10.1016/j.colsurfb.2005.06.001.
- Gocze, K. et al. (2013). Unique MicroRNA Expression Profiles in Cervical Cancer. *Anticancer Research*, 33(6), 2561-2568. Retrieved from <https://pubmed.ncbi.nlm.nih.gov/23749909/>.
- Gomes, B.C. et al. (2016). Prognostic value of microRNA-203a expression in breast cancer. *Oncology Reports*, 36(3), 1748-1756. doi: 10.3892/or.2016.4913.
- Gottardo, F. et al. (2007). Micro-RNA profiling in kidney and bladder cancers. *Urologic Oncology*, 25(5), 387-92. doi: 10.1016/j.urolonc.2007.01.019.
- Graves, P., & Zeng, Y. (2012). Biogenesis of Mammalian MicroRNAs: A Global View. *Genomics Proteomics Bioinformatics*, 10, 239-245. doi: 10.1016/j.gpb.2012.06.004.
- Gregory, R.I. et al. (2004). The Microprocessor complex mediates the genesis of micro-RNAs. *Nature*, 432, 235-240. doi: 10.1038/nature03120.
- Gaur, S. (2015). Chitosan nanoparticle-mediated delivery of miRNA-34a decreases prostate tumor growth in the bone and its expression induces non-canonical autophagy. *Oncotarget*, 6(30), 29161-29177. doi: 10.18632/oncotarget.4971.
- Ha, M., & Kim, V. N. (2014). Regulation of microRNA biogenesis. *Nature Reviews Molecular Cell Biology*, 15, 509–524. doi: 10.1038/nrm3838.
- He, S., Zhang, G., Dong, H., Ma, M., & Sun, Q. (2016). miR-203 facilitates tumor growth and metastasis by targeting fibroblast growth factor 2 in breast cancer. *Onco Targets and Therapy*, 9, 6203-6210. doi: 10.2147/OTT.S108712.
- Hemmatzadeh, M., Mohammadi, H., Jadidi-Niaragh, F., Asghari, F., & Yousefi, M. (2016). The role of oncomirs in the pathogenesis and treatment of breast cancer. *Biomedicine & Pharmacotherapy*, 78, 129-139. doi: 10.1016/j.biopha.2016.01.026.

- Herdiana, Y., Wathoni, N., Shamsuddin, S., & Muchtaridi, M. (2022). Drug release study of the chitosan-based nanoparticles. *Heliyon*, 8(1), e08674. doi: 10.1016/j.heliyon.2021.e08674.
- Huang, M., Khor, E., & Lim, L. Y. (2004). Uptake and cytotoxicity of chitosan molecules and nanoparticles: effects of molecular weight and degree of deacetylation. *Pharmaceutical Research*, 21(2), 344-353. doi: 10.1023/b:pham.0000016249.52831.a5.
- Hughes, J. P., Rees, S., Kalindjian, S. B., & Philpott, K. L. (2011). Principles of early drug discovery. *British Journal of Pharmacology*, 162(6), 1239-1249. doi: 10.1111/j.1476-5381.2010.011.
- Huo, W. et al. (2017). miR-203a-3p.1 targets IL-24 to modulate hepatocellular carcinoma cell growth and metastasis. *FEBS Open Bio*, 7(8), 1085–1091. doi: 10.1002/2211-5463.12248.
- Hwang, H.W., Wentzel, E.A., & Mendell, J. T. (2009). Cell-cell contact globally activates microRNA biogenesis. *Proceeding of the National Academy of Sciences of the United States of America*, 106(17), 7016-7021. doi: 10.1073/pnas.0811523106.
- Iorio M. V. et al. (2007). MicroRNA Signatures in Human Ovarian Cancer. *Cancer Research*, 67(18), 8699-8707. doi: 10.1158/0008-5472.CAN-07-1936.
- Jézéquel, P. et al. (2015). Gene-expression molecular subtyping of triple-negative breast cancer tumours: importance of immune response. *Breast Cancer Research*, 17(43), 1-16. doi: 10.1186/s13058-015-0550-y.
- Joseph, E., & Singhvi, G. (2019). Multifunctional nanocrystals for cancer therapy: a potential nanocarrier. *Nanomaterials for Drug Delivery and Therapy*. Romania: Elsevier.
- Justus, C. R., Leffler, N., Ruiz-Echevarria, M., & L. V. Yang. (2014). *In Vitro* Cell Migration and Invasion Assays. *Journal of Visualized Experiments*, (88), 51046. doi: 10.3791/51046.
- Kang, B. S., Lee, S. E., Lian, C., Cho, C. W., & Park, J. S. (2015). Determination of preparation parameters for albendazole-loaded nanoparticles using chitosan and tripolyphosphate. *Journal of Pharmaceutical Investigation*, 45, 265-269. doi: 10.1007/s40005-015-0171-6.
- Karimi, M. et al. (2013). Evaluation of Chitosan-Tripolyphosphate Nanoparticles as a p- shRNA Delivery Vector: Formulation, Optimization and Cellular Uptake Study. *Journal Nanopharm Drug Delivery*, 1(3), 266–278. doi:10.1166/jnd.2013.1027.
- Katz, D. et al. (2018). Increased efficiency for performing colony formation assays in 96-well plates: novel applications to combination therapies and high-throughput screening. *BioTechniques*, 44(2S), 9-14. doi: 10.2144/000112757.
- Kementerian Kesehatan Republik Indonesia. (2016). Panduan Penatalaksanaan Kanker Payudara. *Pedoman Pelayanan Nasional Kedokteran*. Indonesia: KEMENKES RI.

- Khan, S., Ayub, H., Khan, T., & Wahid, F. (2019). MicroRNA biogenesis, gene silencing mechanisms and role in breast, ovarian and prostate cancer. *Biochimie*, 167, 12-24. doi: 10.1016/j.biochi.2019.09.001.
- Kharia, A. A., Singhai, A. K., & Varma, R. (2012). Formulation and Evaluation of Polymeric Nanoparticle of an Antiviral Drug of Gastroretention. *International Journal of Pharmaceutical Science and Nanotechnology*, 4(4), 1557-1559. doi: 10.37285/ijpsn.2011.4.4.6.
- Lee, R. C., Feinbaum, R. L., & Ambros, V. (1993). The *C. elegans* heterochronic gene *lin-4* encodes small RNAs with antisense complementarity to *lin-14*. *Cell*, 75(5), 843-853. doi: 10.1016/0092-8674(93)90529-y.
- Lee, Y. et al. (2004). MicroRNA genes are transcribed by RNA polymerase II. *The EMBO Journal*, 23(20), 4051-4060. doi: 10.1038/sj.emboj.7600385.
- Lehmann, B. D. et al. (2011). Identification of human triple-negative breast cancer subtypes and preclinical models for selection of targeted therapies. *The Journal of clinical investigation*, 121(7), 2750-67. doi: 10.1172/JCI45014.
- Lennox, K. A., & Behlke, M. A. (2010). A direct comparison of anti-microRNA oligonucleotide potency. *Pharmaceutical Research*, 27(9), 1788-1799. doi: 10.1007/s11095-010-0156-0.
- Liao, M. et al. (2021). Small-Molecule Drug Discovery in Triple Negative Breast Cancer: Current Situation and Future Directions. *Journal of Medical Chemistry*, 64(5), 2382-2418. doi: 10.1021/acs.jmedchem.0c01180.
- Lima, R. T., Busacca, S., Almeida, G. M., Fennell, D. A. & Vasconcelos, M. H. (2011). *European Journal of Cancer*, 7(2), 163-74. doi: 10.1016/j.ejca.2010.11.005.
- Liu, H.Y. et al. (2019). MiR-203a-3p regulates the biological behaviors of ovarian cancer cells through mediating the Akt/GSK-3 β /Snail signaling pathway by targeting ATM. *Journal of Ovarian Research*, 12, 1-3. doi: 10.1186/s13048-019-0532-2.
- Liu, J., Valencia-Sanchez, M. A., Hannon, G. J. & Parker, R. (2005). Micro-RNA-dependent localization of targeted mRNAs to mammalian P-bodies. *Nature Cell Biology*, 7(7), 719-723. doi: 10.1038/ncb1274.
- Liu, J. et al. (2021). Progress of non-coding RNAs in triple-negative breast cancer. *Life Sciences*, 272, 1-13. doi: 10.1016/j.lfs.2021.119238.
- Liu, Z. et al. (2012). MiR-182 overexpression in tumorigenesis of high-grade serous ovarian carcinoma. *The Journal of Pathology*, 228(2), 204-215. doi: 10.1002/path.4000.
- Loh, J. W., Yeoh, G., Saunders, M., & Lim, L.Y. (2010). Uptake and cytotoxicity of chitosan nanoparticles in human liver cells. *Toxicology and applied pharmacology*, 249(2), 148-57. doi: 10.1016/j.taap.2010.08.029.
- Lu, X., Yu, Y., Liao, F., & Tan, S. (2019). Homo Sapiens Circular RNA 0079993 (hsa_circ_0079993) of the POLR2J4 Gene Acts as an Oncogene in Colorectal Cancer Through the microRNA-203a-3p.1 and CREB1 Axis. *Medical Science*

- Monitor: International Medical Journal of Experimental and Clinical Research*, 25, 6872-6883. doi: 10.12659/MSM.916064.
- MacFarlane, L. A., & Murphy, P. R. (2010). MicroRNA: Biogenesis, Function and Role in Cancer. *Current Genomics*, 11(7), 537-561. doi: 10.2174/138920210793175895.
- Maiti, B., Kundranda, M. N., Spiro, T.P., & Daw, H. A. (2010). The association of metabolic syndrome with triple-negative breast cancer. *Breast Cancer Research and Treatment*, 121(2), 479-483. doi: 10.1007/s10549-009-0591-y.
- Marotti, J. D., de Abreu, F. B., Wells, W. A., & Tsongalis, G. J. (2017). Triple-Negative Breast Cancer Next-Generation Sequencing for Target Identification. *The American Journal of Pathology*, 187(10), 2133-2138. doi: 10.1016/j.ajpath.2017.05.018.
- Martínez-Torres, A. C. et al. (2018). Chitosan gold nanoparticles induce cell death in HeLa and MCF-7 cells through reactive oxygen species production. *International Journal of Nanomedicine*, 13, 3235-3250. doi: 10.2147/IJN.S165289.
- Masarudin, M. J., Cutts, S. M., Evison, B. J., Phillips, D. R., & Pigram, P. J. (2015). Factors determining the stability, size distribution, and cellular accumulation of small, monodisperse chitosan nanoparticles as candidate vectors for anticancer drug delivery: application to the passive encapsulation of [¹⁴C]-doxorubicin. *Nanotechnology Science and Applications*, 8, 67-80. doi: 10.2147/NSA.S91785.
- McDonald, M. K., & Ajit, S. K. (2015). MicroRNA Biology and Pain. *Progress in Molecular Biology and Translational Science*, 131, 215-249. doi: 10.1016/bs.pmbts.2014.11.01.
- Mehrgou, A., & Akouchekian, M. (2016). The importance of BRCA1 and BRCA2 genes mutations in breast cancer development. *Medical Journal of The Islamic Republic of Iran*, 56, 1-12. Retrieved from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4972064/>.
- Mendell, J. T., & Olson, E. N. (2012). Micro-RNA in stress signaling and human disease. *Cell*, 148(6), 1172-1187. doi: 10.1016/j.cell.2012.02.005
- Mohammed, M. A., Syeda, J. T. M., Wasan, K. M., & Wasan, E. K. (2017). An Overview of Chitosan Nanoparticles and Its Application in Non-Parenteral Drug Delivery. *Pharmaceutics*, 9(4), 53. doi:10.3390/pharmaceutics9040053.
- Mohanraj, V. J., & Chen, Y. (2006). Nanoparticles – A Review. *Tropical Journal of Pharmaceutical Research*, 5(1), 561-573. Retrieved from <https://www.ajol.info/index.php/tjpr/article/view/14634>.
- Muhammad, N., Bhattacharya, S., Steele, R., & Ray, R. B. (2016). Anti-miR-203 suppresses ER-positive breast cancer growth and stemness by targeting SOCS3. *Oncotarget*, 7(36), 58595-58605. doi: 10.18632/oncotarget.11193.
- Nidhin, M., Indumathy, R., Sreeram, K. J., & Nair, B. U. Synthesis of iron oxide nanoparticles of narrow size distribution on polysaccharide templates. *Bulletin*

- of Materials Science*, 31, 93-96. Retrieved from <https://link.springer.com/article/10.1007/s12034-008-0016-2>.
- Nisa, U., Astuti, I., Martien, R., Maulana, D. R., & Ysrafil. (2020). Chitosan Nanoparticle as a Delivery System of miRNA 217 for Suppressing Hepatocellular Carcinoma Progressivity by Targeting AEG-1/P53. *1st Jendral Soedirman International Medical Conference*, 131-138. doi: 10.5220/0010489001310138.
- Nishimura, R., & Arima, N. (2008). Is triple negative a prognostic factor in breast cancer?. *Breast Cancer*, 15, 303–308. doi: 10.1007/s12282-008-0042-3.
- Nguyen, D. D., & Chang, S. (2018). Development of Novel Therapeutic Agents by Inhibition of Oncogenic MicroRNAs. *International Journal of Molecular Sciences*, 19, 1-17. doi:10.3390/ijms19010065.
- Otoukesh, B., Abbasi, M., Gorgani, H., Farahini, H., Moghtadaei, M., Boddouhi, B., Kaghazian, P., Hosseinzadeh, S. & Alaei, A. (2020). MicroRNAs signatures, bioinformatics analysis of miRNAs, miRNA mimics and antagonists, and miRNA therapeutics in osteosarcoma. *Cancer Cell International*, 20, 254. doi: 10.1186/s12935-020-01342-4.
- Pal, S. L., Jana, U, Manna, P. K., Mohanta, G. P., & Manavalan, R. (2011). Nanoparticle: An overview of preparation and characterization. *Journal of Applied Pharmaceutical Science*, 1(6), 228-234. https://www.japsonline.com/admin/php/uploads/159_pdf.pdf.
- Patra, J.K. et al. (2018). Nano based drug delivery systems: recent developments and future prospects. *Journal of Biotechnology*, 16, 71. doi:10.1186/s12951-018-0392-8.
- Peng, Y., & Croce, C. M. (2016). The role of MicroRNAs in human cancer. *Signal Transduction and Targeted Therapy*, 1, 15004. doi:10.1038/sigtrans.2015.4.
- Phipps, A.I. et al. (2011). Reproductive History and Oral Contraceptive Use in Relation to Risk of Triple-Negative Breast Cancer. *JNCI: Journal of the National Cancer Institute*, 103(6), 470–477. doi: 10.1093/jnci/djr030.
- Piasecka, D., Braun, M., Kordek, R., Sadej, R., & Romanska, H. (2018). MicroRNAs in regulation of triple-negative breast cancer progression. *Journal of Cancer Research and Clinical Oncology*, 144, 1401-1411. doi.org/10.1007/s00432-018-2689-2.
- Pillai, R.S. et al. (2005). Inhibition of translational initiation by Let-7 MicroRNA in human cells. *Science*, 309(5740), 1573-1576. doi: 10.1126/science.1115079.
- Rizkita, K. D., Ysrafil., Martien R., & Astuti, I.m(2021). Chitosan nanoparticles mediated delivery of miR-106b-5p to breast cancer cell lines MCF-7 and T47D. *International Journal of Applied Pharmaceutics*, 13(1), 129-134. doi: 10.22159/ijap.2021v13i1.39749.
- Roi, S. S., & Vadlamudi, R. K. (2012). Role of Estrogen Receptor Signaling in Breast Cancer Metastasis. *International Journal of Breast Cancer*, 2012. doi.org/10.1155/2012/654698.

- Ru, P., Steele, R., Hsueh, E. C., & Ray, R. B. (2011). Anti-miR-203 Upregulates SOCS3 Expression in Breast Cancer Cells and Enhances Cisplatin Chemosensitivity. *Genes Cancer*, 2(7), 720-727. doi: 10.1177/1947601911425832.
- Rupaimoole, R., & Slack, F. J. (2017). MicroRNA therapeutics: towards a new era for the management of cancer and other diseases. *Nature Reviews Drug Discovery*, 16(3), 203-222. doi: 10.1038/nrd.2016.246.
- Santos-Carballal, B. et al. (2015). Physicochemical and biological characterization of chitosan-microRNA nanocomplexes for gene delivery to MCF-7 breast cancer cells. *Scientific Reports*, 5, 13567. doi: 10.1038/srep13567.
- Satriyo, P. B. (2019). MicroRNA Profiling and Potential Treatment of 4AAQB Against Oncomir in Triple Negative Breast Cancer. (Doctoral thesis). Universitas Gadjah Mada, Yogyakarta, Indonesia.
- Satriyo, P. B. et al. (2020). Dual Therapeutic Strategy Targeting Tumor Cells and Tumor Microenvironment in Triple-negative Breast Cancer. *Journal of Cancer Research and Practice*, 7, 139-148. doi: 10.4103/JCRP.JCRP_13_20.
- Schetter, A.J. et al. (2008). MicroRNA expression profiles associated with prognosis and therapeutic outcome in colon adenocarcinoma. *JAMA*, 99(4), 425-36. doi: 10.1001/jama.299.4.425.
- Siadati, S., Sharbatdaran, S., Nikbakhsh, N., & Ghaemian N. (2015). Correlation of ER, PR and HER-2/Neu with other Prognostic Factors in Infiltrating Ductal Carcinoma of Breast. *Iranian Journal of Pathology*, 10(3): 221-226. Retrieved from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4539777/>.
- Sharifi-Rad, J. et al. (2021). Chitosan nanoparticles as a promising tool in nanomedicine with particular emphasis on oncological treatment. *Cancer Cell International*, 21(1), 318. doi: 10.1186/s12935-021-02025-4.
- Sofi, M., Young, M. J., Papamakarios, T., Simpson, E. R., & Clyne, C. D. (2003). Role of CRE-binding protein (CREB) in aromatase expression in breast adipose. *Breast Cancer Research and Treatment*, 79(3), 399-407. doi: 10.1023/a:1024038632570.
- Stockert, J. C., Horobin, R. W., Colombo, L. L., & Blázquez-Castro, A. (2018). Tetrazolium salts and formazan products in Cell Biology: Viability assessment, fluorescence imaging, and labeling perspectives. *Acta Histochemica*, 120(3), 159-167. doi: 10.1016/j.acthis.2018.02.005.
- Suardi, R. B. et al. (2020). The effects of Combination of Mimic miR-155-5p and Antagonist miR-324-5p Encapsulated Chitosan in Ovarian Cancer SKOV3. *Asian Pacific Journal of Cancer Prevention*, 21(9), 2603-2608. doi: 10.31557/apjcp.2020.21.9.2603.
- Sung, H. et al. (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, 209-249. doi: 10.3322/caac.21660.

- Tsai, M. L., Davis, R. H., Bai, S. W., & Chen, W. Y. (2011). The storage stability of chitosan/tripolyphosphate nanoparticles in a phosphate buffer. *Carbohydrate Polymers*, 84(2), 756–761. doi: 10.1016/carbpol.2010.04.040.
- Uscanga-Perales, G. I., Santuario-Facio, S. K., & Ortiz-López, R. (2016). Triple negative breast cancer: Deciphering the biology and heterogeneity. *Medicina Universitaria*, 18(71), 105-114. doi: 10.1016/j.rmu.2016.05.007.
- Vyas, A., Saraf, S., & Saraf, S. (2009). Encapsulation of cyclodextrin complexed simvastatin in chitosan nanocarriers: A novel technique for oral delivery. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, 66, 251-259. Retrieved from <https://link.springer.com/article/10.1007/s10847-009-9605-y>.
- Wang, C., Zheng, X., Shen, C., & Shi, Y. (2012). MicroRNA-203 suppresses cell proliferation and migration by targeting BIRC5 and LASP1 in human triple-negative breast cancer cells. *Journal of Experimental & Clinical Cancer Research*, 31(1), 58. doi: 10.1186/1756-9966-31-58.
- Weisman, P. S. et al. (2016). Genetic alterations of triple negative breast cancer by targeted next-generation sequencing and correlation with tumor morphology. *Modern Pathology*, 29(5), 476–488. doi: 10.1038/modpathol.2016.39.
- Wilcock, P., & Webster, R. M. (2021). The breast cancer drug market. *Nature Reviews Drug Discovery*, 20(5), 339–340. doi: 10.1038/d41573-021-00018-6.
- Yang, Z., & Liu, Z. (2020). The Emerging Role of MicroRNAs in Breast Cancer. *Journal of Oncology*, 2020. doi:10.1155/2020/9160905.
- Ysrafil. (2019). Efek sitotoksitas sediaan nanopartikel kitosan berbasis mikroRNA terhadap kultur sel line kanker ovarium SKOV3. Tesis. Program Studi Magister Ilmu Biomedis, Fakultas Kedokteran, Kesehatan Masyarakat & Keperawatan. Universitas Gadjah Mada. Yogyakarta.
- Ysrafil, Y., & Astuti, I. (2022). Chitosan nanoparticle-mediated effect of anti-miRNA-324-5p on decreasing the ovarian cancer cell proliferation by regulation of GLI1 expression. *Bioimpacts*, 12(3), 195-202. doi: 10.34172/bi.2021.22119.
- Zhang, B., Pan, X., Cobb, G. P., & Anderson, T. A. (2007). microRNAs as oncogenes and tumor suppressors. *Developmental Biology*, 302(1), 1-12. doi: 10.1016/j.ydbio.2006.08.028.